

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**FORM 10-K**

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2025

or

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission File Number: 001-41949

**Metagenomi Therapeutics, Inc.**

(Exact Name of registrant as specified in its charter)

**Delaware**

(State or other jurisdiction of incorporation or organization)

**5959 Horton Street, 7th Floor, Emeryville, California**

(Address of principal executive offices)

**81-3909017**

(I.R.S. Employer Identification No.)

**94608**

(Zip Code)

Registrant's telephone number including area code **(510) 871-4880**

**Securities registered pursuant to Section 12(b) of the Act:**

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common stock, par value \$0.0001 per share	MGX	The Nasdaq Global Select Market

**Securities registered pursuant to Section 12(g) of the Act: None**

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes  No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Act. Yes  No

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes  No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input checked="" type="checkbox"/>	Smaller reporting company	<input checked="" type="checkbox"/>
Emerging growth company	<input checked="" type="checkbox"/>		

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to §240.10D-1(b).

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes  No

The aggregate market value of the voting and non-voting common equity held by non-affiliates, based on the closing price of the shares of common stock on The Nasdaq Global Select Market on June 30, 2025 (the last business day of the registrant's most recently completed second fiscal quarter), was \$50,931,318. This calculation does not reflect a determination that certain persons are affiliates of the registrant for any other purpose.

The number of shares of registrant's Common Stock outstanding as of March 2, 2026 was 37,620,530.

**DOCUMENTS INCORPORATED BY REFERENCE**

Part III of this Annual Report on Form 10-K incorporates certain information by reference from the registrant's definitive proxy statement for the 2026 annual meeting of stockholders to be filed no later than 120 days after the end of the registrant's fiscal year ended December 31, 2025.

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## SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K contains express or implied forward-looking statements that are based on our management’s belief and assumptions and on information currently available to our management and which are made pursuant to the safe harbor provisions of Section 27A of the Securities Act of 1933, as amended (the “Securities Act”), and Section 21E of the Securities Exchange Act of 1934, as amended (the “Exchange Act”). Although we believe that the expectations reflected in these forward-looking statements are reasonable, these statements relate to future events or our future operational or financial performance, and involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by these forward-looking statements. Forward-looking statements in this Annual Report on Form 10-K include, but are not limited to, statements about:

- the initiation, timing, progress and results of our research and development programs, preclinical studies and future clinical trials;
- our ability to demonstrate, and the timing of, preclinical proof-of-concept in vivo and ex vivo for multiple programs;
- our ability to advance any product candidates that we may identify and successfully complete any clinical studies, including the manufacture of any such product candidates;
- our ability to quickly leverage programs within our initial target indications and to progress additional programs to further develop our pipeline;
- the timing of our Investigational New Drug (“IND”) applications submissions;
- the implementation of our strategic plans for our business, programs and technology;
- the scope of protection we are able to establish and maintain for intellectual property rights covering our genome editing technology and platform;
- developments related to our competitors and our industry;
- our ability to leverage the clinical, regulatory, and manufacturing advancements made by genome editing programs to accelerate our clinical trials and approval of product candidates;
- our ability to maintain existing license agreements and collaborations and identify and enter into future license agreements and collaborations;
- developments related to our genome editing technology and platform;
- regulatory developments in the United States and foreign countries;
- our ability to attract and retain key scientific and management personnel;
- the volatility of capital markets and other adverse macroeconomic factors, including due to inflationary pressures, tariffs, and other trade protection measures that have been or may in the future be imposed by the United States (the “U.S.”) or other countries, interest rate and currency rate fluctuations, economic slowdown or recession, banking instability, monetary policy changes, geopolitical tensions or the outbreak of hostilities or war, including from the ongoing Russia-Ukraine conflict, the current conflict in Israel and Gaza (including any escalation or expansion), the current conflict in Venezuela and increasing tensions between China and Taiwan; and
- estimates of our expenses, capital requirements, and needs for additional financing.

In some cases, you can identify forward-looking statements by terminology such as “may,” “will,” “should,” “expects,” “intends,” “plans,” “anticipates,” “believes,” “estimates,” “predicts,” “potential,” “continue” or the negative of these terms or other comparable terminology. These statements are only predictions and are subject to change. You should not place undue reliance on forward-looking statements because they involve known and unknown risks, uncertainties, and other factors, which are, in some cases, beyond our control and which could materially affect results. Moreover, we operate in an evolving environment. New risk factors and uncertainties may emerge from time to time, and it is not possible for management to predict all risk factors and uncertainties.

Factors that may cause actual results to differ materially from current expectations include, among other things, those listed under the section entitled “Risk Factors” and elsewhere in this Annual Report on Form 10-K. If one or more of these risks or uncertainties occur, or if our underlying assumptions prove to be incorrect, actual events or results may vary significantly from those implied or projected by the forward-looking statements. No forward-looking statement is a guarantee of future performance. You should read this Annual Report on Form 10-K and the documents that we reference in this Annual Report on Form 10-K and have filed with the SEC as exhibits to this Annual Report on Form 10-K completely and with the understanding that our actual future results may be materially different from any future results expressed or implied by these forward-looking statements.

The forward-looking statements in this Annual Report on Form 10-K represent our views as of the date of this Annual Report on Form 10-K. We anticipate that subsequent events and developments will cause our views to change. However, while we may elect to update these forward-looking statements at some point in the future, we have no current intention of doing so except to the extent required by applicable law. You should therefore not rely on these forward-looking statements as representing our views as of any date subsequent to the date of this Annual Report on Form 10-K.

In addition, statements that “we believe” and similar statements reflect our beliefs and opinions on the relevant subject. These statements are based upon information available to us as of the date of this 10-K, and while we believe such information forms a reasonable basis for such statements, such information may be limited or incomplete, and our statements should not be read to indicate that we have conducted an exhaustive inquiry into, or review of, all potentially available relevant information. These statements are inherently uncertain.

This Annual Report on Form 10-K also contains estimates, projections and other information concerning our industry, our business and the markets for our programs and product candidates. Information that is based on estimates, forecasts, projections, market research or similar methodologies is inherently subject to uncertainties and actual events or circumstances may differ materially from events and circumstances that are assumed in this information. Unless otherwise expressly stated, we obtained this industry, business, market, and other data from our own internal estimates and research as well as from reports, research surveys, studies, and similar data prepared by market research firms and other third parties, industry, medical and general publications, government data and similar sources. While we are not aware of any misstatements regarding any third-party information presented in this Annual Report on Form 10-K, their estimates, in particular, as they relate to projections, involve numerous assumptions, are subject to risks and uncertainties and are subject to change based on various factors, including those discussed under the section entitled “Risk Factors” and elsewhere in this Annual Report on Form 10-K.

From time to time, we may use our website to distribute material information about us and for complying with our disclosure obligations under Regulation FD. Our financial and other material information is routinely posted to and accessible on the Investor Relations section of our website, available at <https://ir.metagenomi.co/>. Investors are encouraged to review the Investor Relations section of our website because we may post material information on that site that is not otherwise disseminated by us. Information that is contained in and can be accessed through our website are not incorporated into, and does not form a part of, this Annual Report on Form 10-K.

#### **Trademarks and Service Marks**

This Annual Report on Form 10-K contains references to our trademarks and service marks and to those belonging to other entities. Solely for convenience, trademarks and trade names referred to in this Annual Report on Form 10-K, including logos, artwork and other visual displays, may appear without the ® or TM symbols, but such references are not intended to indicate in any way that we will not assert, to the fullest extent under applicable law, our rights or the rights of the applicable licensor to these trademarks and trade names. We do not intend our use or display of other entities’ trade names, trademarks or service marks to imply a relationship with, or endorsement or sponsorship of us by, any other entity.

### **Market, Industry and Other Data**

Unless otherwise indicated, information contained in this Annual Report on Form 10-K concerning our industry and the markets in which we operate, including our general expectations about our product candidates, market position, market opportunity, market size, competitive position and the incidence of certain medical conditions, is based on or derived from publicly available information released by industry analysts and third-party sources, independent market research, industry and general publications and surveys, governmental agencies, our internal research and our industry experience. Our estimates of the potential market opportunities for our product candidates include a number of key assumptions based on our industry knowledge and industry publications, the latter of which may be based on small sample sizes and fail to accurately reflect such information, and you are cautioned not to give undue weight to such estimates. While we believe that our internal assumptions are reasonable, no independent source has verified such assumptions. Industry publications and third-party research often indicate that their information has been obtained from sources believed to be reliable, although they do not guarantee the accuracy or completeness of such information and such information is inherently imprecise. In some cases, we do not expressly refer to the sources from which this data is derived. In that regard, when we refer to one or more sources of this type of data in any paragraph, you should assume that other data of this type appearing in the same paragraph is derived from the same sources, unless otherwise expressly stated or the context otherwise requires. In addition, projections, assumptions and estimates of our future performance and the future performance of the industry in which we operate is necessarily subject to a high degree of uncertainty and risk due to a variety of factors, including those described in Part I, Item 1A of this Annual Report on Form 10-K titled “Risk Factors” and elsewhere in this Annual Report on Form 10-K. These and other factors could cause results to differ materially from those expressed in the estimates made by independent third parties and by us.

## SUMMARY OF MATERIAL RISKS ASSOCIATED WITH OUR BUSINESS

Our business is subject to numerous risks and uncertainties that you should be aware of in evaluating our business. These risks include, but are not limited to, the following:

- We have incurred significant losses since inception. We expect to incur losses for the foreseeable future and may never achieve or maintain profitability.
- Our operations will require substantial additional funding. If we are unable to raise additional capital when needed on acceptable terms, or at all, we may be forced to delay, reduce, or terminate certain of our research and product development programs, future commercialization efforts or other operations.
- We are very early in our development efforts, and we have not yet initiated clinical development of any product candidate. As a result, we expect it will be many years before we commercialize any product candidate, if ever. If we are unable to advance our future product candidates into and through clinical trials, obtain regulatory approval and ultimately commercialize our product candidates or experience significant delays in doing so, our business will be materially harmed.
- We are subject to additional development challenges and risks due to the novel nature of our genome editing technology.
- The genome editing field is relatively new and is evolving rapidly. We are focusing our research and development efforts on genome editing using programmable nucleases, base editing, and RNA and DNA-mediated integration systems (including prime editors and CRISPR-associated (“Cas”) transposases), but other genome editing technologies may be discovered that provide significant advantages over such technologies, which could materially harm our business.
- While we intend to seek designations for our potential product candidates with the FDA and comparable foreign regulatory authorities that are intended to confer benefits such as a faster development process or an accelerated regulatory pathway, there can be no assurance that we will successfully obtain such designations. In addition, even if one or more of our potential product candidates are granted such designations, we may not be able to realize the intended benefits of such designations.
- Because we are developing product candidates in the field of genetic medicines in which there is little clinical experience, there is increased risk that the FDA, the EMA or other regulatory authorities may not consider the endpoints of our clinical trials to provide clinically meaningful results and that these results may be difficult to analyze.
- If conflicts arise between us and our collaborators or strategic partners, these parties may act in a manner adverse to us and could limit our ability to implement our strategies.
- We have entered into collaborations, and may enter into additional collaborations, with third parties for the research, development, manufacture and commercialization of programs or product candidates. If these collaborations are not successful, our business could be adversely affected.
- Our commercial success depends on our ability to obtain, maintain, enforce, and otherwise protect our intellectual property and proprietary technology, and if the scope of the intellectual property protection obtained is not sufficiently broad, our competitors or other third parties could develop and commercialize products and product candidates similar or identical to ours and our ability to successfully develop and commercialize our genome editing systems may be adversely affected.
- It is difficult and costly to protect our intellectual property and our proprietary technologies, and we may not be able to ensure their protection.

The summary risk factors described above should be read together with the text of the full risk factors below in the section titled “Risk Factors” in Part I, Item 1A. and the other information set forth in this Annual Report on Form 10-K, as well as in other documents that we file with the U.S. Securities and Exchange Commission (SEC). The risks summarized above or described in full below are not the only risks that we face. Additional risks and uncertainties not precisely known to us, or that we currently deem to be immaterial, may also materially adversely affect our business, financial condition, results of operations and future growth prospects.

## PART I

### Item 1. Business.

#### Overview

We are an in vivo genome editing company capitalizing on our proprietary technologies to create curative genetic medicines for patients. We were founded on the science of metagenomics, the study of genetic materials recovered from the natural environment, to discover and develop a suite of novel gene editing tools potentially capable of correcting any type of genetic mutation found anywhere in the human genome. We leverage machine learning and artificial intelligence to enhance our signature gene editing systems. In late 2025, we made the decision to strategically reprioritize our pipeline and discovery efforts to focus our resources on driving forward our lead programs that utilize our most advanced, signature gene-editing capabilities with the highest probability of success while maintaining financial discipline to drive sustainable growth and long-term value. We increased our focus on high-value programs in disease indications with well-understood biology and clearly defined clinical development and regulatory pathways to accelerate programs with the potential to deliver therapeutic benefits of gene editing to patients.

MGX-001 is our lead, wholly-owned development program in hemophilia A, where we have demonstrated targeted genome editing and durable gene expression from a one-time treatment in non-human primates (“NHPs”) and an overall profile potentially competitive with best-in-class treatment options. MGX-001 is designed to provide curative, life-long protection from bleeding events and joint damage in adults and children with hemophilia A from a single administration. We are also pursuing other secreted protein deficiencies leveraging the MGX-001 site-specific genome integration system as well as partnered assets targeting cardiometabolic diseases. Going forward, we intend to continue to expand our pipeline by leveraging our proprietary genetic editing capabilities in site specific deletion, integration and correction, with the goal of achieving curative therapeutics. We seek to further our progress on the forefront of genetic medicine by generating unique development candidates.

We have generated over 20,000 signature gene editing systems from our novel, proprietary metagenomics database. Leveraging these signature systems, including our novel nucleases and other proprietary systems, we expand gene targeting and improve editing precision beyond the capabilities of commonly used systems, including CRISPR/Cas9, to potentially address genetically-driven diseases. Our novel nucleases have demonstrated efficient and durable genetic editing with high specificity, enabling gene knock-down, large-gene deletion, and large-gene insertion for multiple preclinical programs. Our novel base editors have achieved simultaneous 7-plex editing with high efficiency and specificity and no adverse effects on cell health in primary T-cells. Our Small Arginine-Rich sysTems (“SMART”) nucleases and compact editing systems are small enough to be packaged within an adeno-associated virus (“AAV”) enabling delivery to tissues outside the liver and the potential to address a broader range of diseases. Our RNA and DNA Mediated Integration Systems leverage RNA and DNA templates, respectively, to enable programable gene correction and large gene insertion.

#### Our Strategy

Our strategy is to develop curative genetic medicines for patients by capitalizing on our proprietary signature gene editing technologies developed from our foundational science in metagenomics. Our approach to realizing the potentially curative benefit of our proprietary genome editing capabilities includes:

- **Advancing our lead, wholly-owned MGX-001 hemophilia A program, into the clinic and demonstrating the curative potential of our genome editing systems.** In November 2025, we announced preclinical data from a dose range finding study of MGX-001 in NHPs, where MGX-001 demonstrated curative Factor VIII (FVIII) activity with best-in-class treatment potential. The data also demonstrated clear dose dependency across both the AAV and LNP components of MGX-001, informing our clinical dose-regimen strategy. This data builds upon an earlier study, where we demonstrated durable FVIII activity over an approximately 19-month study in NHPs, with an encouraging safety profile. MGX-001 has also shown no detectable off-target editing in a series of orthogonal assays employed to discover and validate potential off-target sites. Hemophilia A is a disease with well understood disease biology, a readily available translational biomarker for early proof-of-concept, clear development pathways, and an important unmet medical need. As such, we believe we have a clear path to establish the power of our gene editing systems in humans through our lead hemophilia A program. Additionally, in late 2025, we demonstrated the curative potential of the MGX-001 large gene integration system in an additional secreted protein disorder, antithrombin III (“AT-III”) deficiency, in an in vivo study in NHPs. We are evaluating additional applications of the MGX-001 system, including AT-III and other secreted protein deficiencies, as we advance MGX-001 toward proof-of-concept in humans.

- **Pursuing additional programs that leverage our most advanced, signature gene editing capabilities.** Our signature systems have demonstrated efficient and durable genetic editing, including gene knock-down, large gene deletion, and large-gene insertion for multiple preclinical programs. Our broad intellectual property estate founded on the science of metagenomics creates a significant barrier to entry as we continue to rigorously file our intellectual property and protect our trade secrets. Along with our in vivo development efforts using our novel programmable nucleases to knock-in or knockdown gene expression in liver-associated targets, we are leveraging our signature gene editing systems to deliver more complex editing systems to targets in and outside the liver. Our approach allows us to systematically incorporate knowledge and insights from our initial development programs, thereby accelerating therapeutic translation across our genome editing technologies.
- **Advancing the science of genome editing through our unique capability to identify and engineer systems designed to overcome the limitations of commonly used systems, including CRISPR/Cas9.** We were founded on the science of metagenomics, the study of genetic materials recovered from the natural environment, to discover and develop a suite of novel editing tools potentially capable of correcting any type of genetic mutation found anywhere in the human genome. We have generated over 20,000 signature gene editing systems from our novel, proprietary metagenomics database. Leveraging these signature systems, including our novel nucleases and other proprietary systems, we can expand gene targeting and improve editing precision beyond commonly used systems, including CRISPR/Cas9, to potentially address genetically-driven diseases. We have demonstrated the strength of our capabilities including in durable large gene integration and multiplexed editing.
- **Building upon the experience of our team of drug development experts.** We are a team of experienced drug discoverers, developers, and company builders who are united by our mission and passion to unlock the full potential of curative genome editing therapies for patients. We are dedicated to attracting and retaining top talent. We are unwavering in our commitment to advance our signature gene editing systems into the clinic and unlock the long-awaited, transformative potential of genome editing to create curative therapies for patients.
- **Seeking enabling partnerships and business development opportunities.** We carefully consider opportunities for business development such as collaborations and partnerships with industry leaders that have unique strengths. We may pursue additional partnership opportunities which complement our technologies, with the objective of accelerating our programs and pushing forward our therapeutic translation efforts. Our existing partnership with Ionis demonstrates our thoughtful approach to collaborating with an industry pioneer to accelerate and optimize the development of our genetic therapeutic candidates in cardiometabolic indications.

## 2025 Restructuring

In light of encouraging preclinical MGX-001 hemophilia A results, we announced in the fourth quarter of 2025 a strategic evolution focusing our capital on the development of our wholly-owned MGX-001 hemophilia A program and later-stage preclinical pipeline while reducing our workforce by 25% and extending our anticipated cash runway into the fourth quarter of 2027. To support this strategic evolution, Jian Irish, Ph.D., M.B.A., our company's President and former Chief Operating Officer, was promoted to the role of Chief Executive Officer. Jian brings a wealth of experience having held development and global operations positions with Kite Pharma / Gilead, Sanofi and Amgen, and having played key roles in the launch of several breakthrough medicines. Additionally, Dr. Willard Dere became our company's new Board of Directors ("Board") Chair and Brian Thomas, Ph.D., our company's founder and former Chief Executive Officer, remained on the Board.

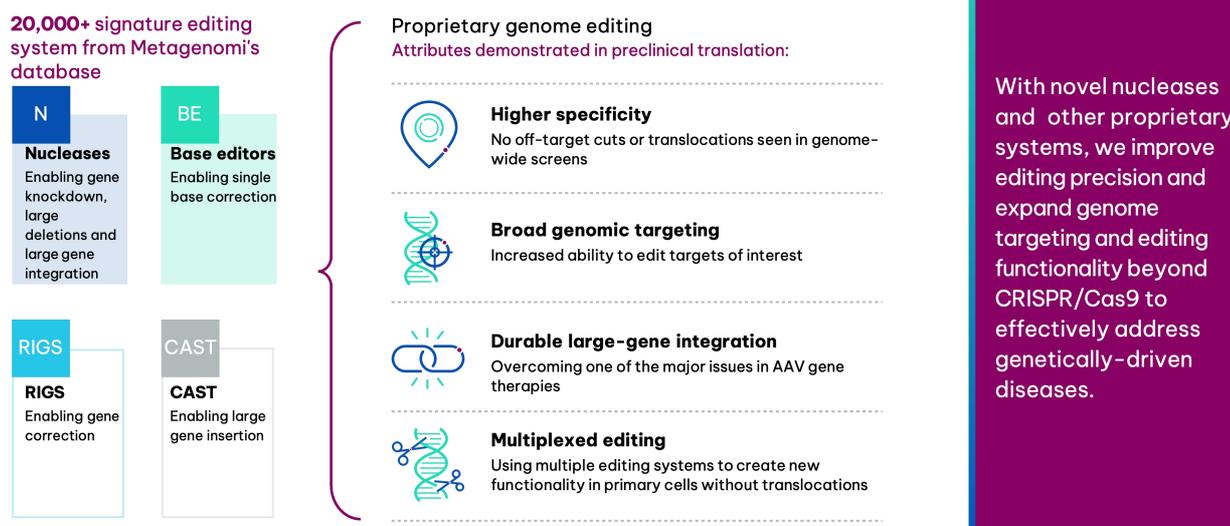
## Name Change

In the first quarter of 2026, we announced a corporate name change to Metagenomi Therapeutics, Inc. This change emphasized our strategic evolution focused on driving our later-stage preclinical programs into the clinic and utilizing our most advanced technologies that have the highest probability of success to deliver the benefits of gene editing therapeutics to patients.

## Our Signature Systems

We have generated over 20,000 signature gene editing systems from our novel, proprietary metagenomics database. Leveraging these signature systems, including our novel nucleases and other proprietary systems, we expand gene targeting and improve editing precision beyond the capabilities of commonly used systems, including CRISPR/Cas9 systems, to potentially address genetically-driven diseases.

**Figure 1.** Overcoming limitations of CRISPR/Cas9



Our programmable nucleases are the backbone of our broad set of genome editing systems. These novel nucleases include type II and type V Cas nucleases, of which some are ultra-small systems that we call SMART nucleases. These systems have unique targeting abilities with the potential to be programmed by gRNAs to target and cut at specific locations in any genome sequence. Targeted genomic breaks trigger DNA repair pathways that can be used for genome editing, for example, to integrate a gene at a target site (knock-in) or for gene inactivation (knockdown). Our highly active nucleases have gone through extensive preclinical evaluation with demonstration of broad potency of these systems across human primary cells, mouse, and NHP models. Our nucleases have also demonstrated genetic editing with high specificity, overcoming a common limitation of CRISPR/Cas9 systems. Our SMART nucleases are small enough to be packaged within an AAV for broad tissue targeting.

Our novel base editors have achieved simultaneous 7-plex editing with high efficiency and specificity in primary T-cells and no adverse effects on cell viability, expansion or other measures of cell health. Our base editors have the potential to target to over 95% of the human genome’s base pairs, a significantly larger number of sites than first-generation SpCas9 base editors. Our SMART nickases can be used to construct base editors that are small enough to fit within the packaging limitations of AAV which can deliver to tissues outside of the liver such as muscle and CNS.

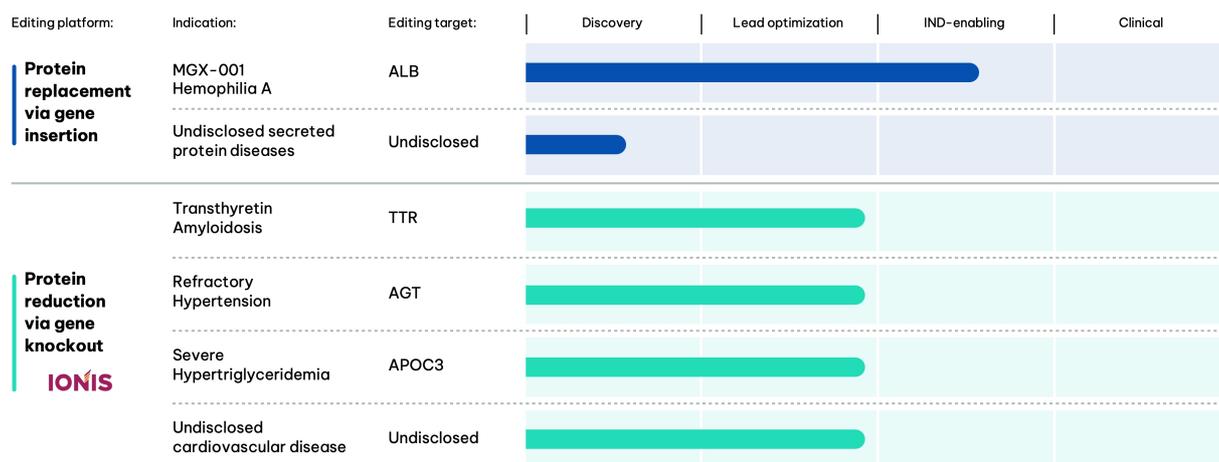
RIGS are genome editing systems that make programmable genomic modifications that are encoded in RNA templates. These systems have the ability to repair diverse mutations, including insertions, deletions and all types of point mutations. Using proprietary reverse transcriptases, we demonstrated what we believe to be the first-ever targeted integration of >900 bp in human cells with our RIGS using all-RNA delivery.

CAST systems are a class of genome editing systems that provide directed and programmable genomic integration of large DNA templates (>10,000 base pairs). We achieved *in vitro* proof-of-concept for large gene integration using our potentially industry leading, compact CAST technology. In March 2025, we published our latest findings in *Nature Communications* describing our novel, compact CAST systems, which demonstrated integration of a large, therapeutically relevant gene into the genome of human cells.

***Our Pipeline***

Our lead programs are focused on disease indications requiring protein replacement via large gene insertion. In partnership with Ionis, we are focused on disease indications requiring protein reduction via gene knockout.

**Figure 2.** Progressing wholly-owned and partnered programs toward the clinic



Metagenomi is exploring opportunities to pursue neuromuscular disease targets & liver disease targets such as AIAT and Wilson Disease, as well as business development to expand therapeutic applications including cell therapy.

### ***Hemophilia A—Novel, Durable, Site-Specific Genome Integration for Expression of Factor VIII (FVIII)***

#### *Background*

Hemophilia A is the most common X-linked bleeding disorder caused by a variety of mutations in the FVIII gene leading to loss of functional FVIII protein. The lack of functional FVIII disrupts the normal clotting cascade and predisposes patients to increased risk of bleeding, either spontaneously or in response to injury or surgery. Repeated bleeding episodes in joints or soft tissues can lead to progressive joint damage, inflammation, pain, and mobility impairment. There are estimated to be up to 26,500 patients with hemophilia A in the United States and more than 500,000 patients with hemophilia A globally. Of these, approximately 60% have severe disease and are at the greatest risk of spontaneous life-threatening bleeding events.

#### *Limitations of Current Treatment Options*

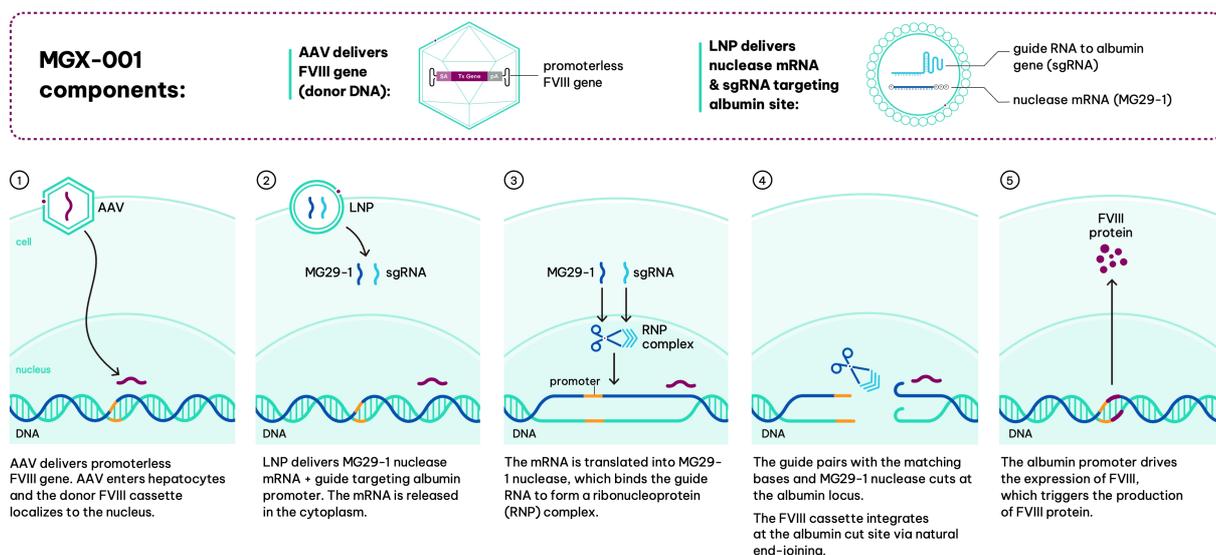
The standard of care for patients with severe hemophilia A includes FVIII protein replacement therapy, bi-specific antibody “mimetics” and most recently, gene therapy. FVIII replacement therapy involves lifelong repeated intravenous (“IV”) infusions typically one to three times per week. The major limitation of this approach is fluctuating FVIII activity levels, with trough values that can still result in breakthrough microscopic and macroscopic bleeding events, particularly within sensitive and previously damaged joints. Additionally, adherence is challenging for patients, and some patients experience inhibitor formation (antibodies against FVIII) that compromises efficacy. The currently approved bi-specific antibody mimetic, emicizumab, requires chronic, life-long treatment, and some patients continue to experience breakthrough bleeding with its associated cumulative risk to joints or soft tissues. Valoctocogene roxaparvovec, which has recently been the subject of a planned divestiture by its developer, is the only approved hemophilia A gene therapy and has consistently shown significant declines in FVIII levels over time in patients, demonstrating that this approach is not a cure. In addition, patients treated with Valoctocogene roxaparvovec had variable degrees of initial efficacy and frequently required prolonged corticosteroid use.

#### *Our Approach*

Our approach is to insert a FVIII DNA cassette into the genome of hepatocytes in the liver at a “safe harbor location,” within an intron of the albumin gene. As shown in Figure 3, our hemophilia A genome editing strategy includes an AAV to deliver a promotorless FVIII gene (donor DNA), and an LNP to deliver the gene editing cargo of messenger RNA (“mRNA”) and single guide RNA (“sgRNA”) targeting the albumin site. Our approach is distinctly different from a gene therapy that provides the FVIII gene in an episomal location, which, as demonstrated in Valoctocogene roxaparvovec, has been observed to experience loss of FVIII expression over time. In our approach, FVIII expression is driven off the strong native albumin promoter in hepatocytes. Expression from a native promoter in its native context in the chromosome is unlikely to be silenced. Thus, our FVIII knock-in is designed to provide durable and stable expression and clinically relevant circulating levels of FVIII even at low integration rates because of the strength of the albumin promoter.

**Figure 3.** MGX-001 mechanism leverages a natural promoter in the normal chromosomal context

## MGX-001 mechanism leverages natural promoter



### Preclinical Results from the MGX-001 Hemophilia A Program

Dose range finding data from our MGX-001 hemophilia A program presented in November 2025 demonstrated curative factor VIII (FVIII) activity in NHPs, supporting our plan to advance MGX-001 into clinical development. In this preclinical dose range finding study, a single dose of AAV containing a B-domain deleted human FVIII gene was administered to 24 NHPs in six dose cohorts at varying doses from  $5.0 \times 10^{11}$  vg/kg to  $4.0 \times 10^{13}$  vg/kg followed by a single dose of LNP delivering the proprietary MG29-1 nuclease mRNA and associated guide RNA at either 0.2, 0.6 or 2.0 mg/kg. Each animal received a single dose of corticosteroids prior to both AAV and LNP doses.

Curative levels are generally defined as FVIII levels of 50% to 150% of normal human levels. Key highlights from the study illustrated in Figure 4 below include:

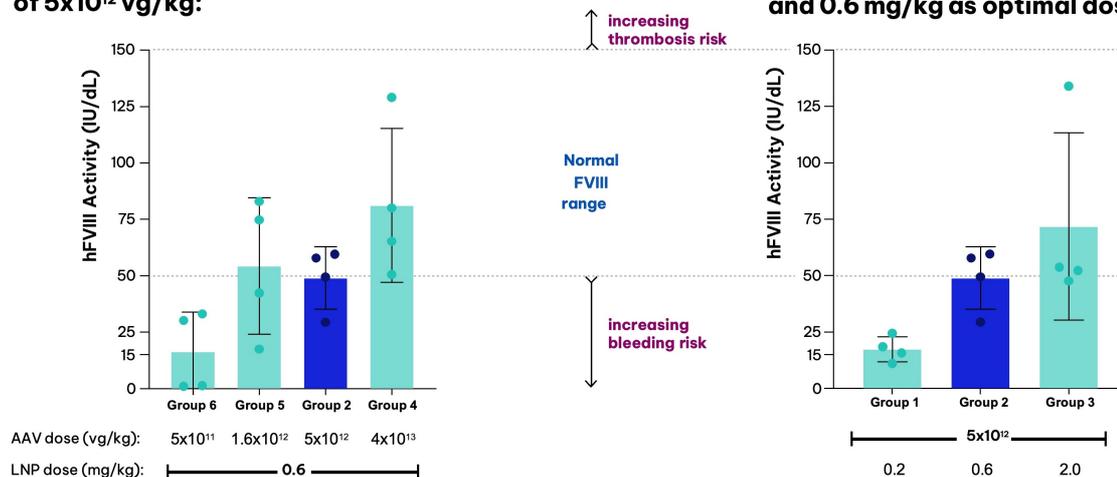
- Therapeutically relevant levels of FVIII activity were achieved in the five highest AAV doses of the six dose cohorts
- At a fixed LNP dose of 0.6 mg/kg and a variable AAV dose of  $1.6 \times 10^{12}$  to  $4 \times 10^{13}$  vg/kg, MGX-001 achieved average per cohort FVIII activity of 49% - 81%
- At a fixed AAV dose of  $5 \times 10^{12}$  vg/kg and a variable LNP dose of 0.2 to 2.0 mg/kg, MGX-001 achieved average per cohort FVIII activity of 17% - 72%; a minimally efficacious dose was achieved at 0.2 mg/kg
- FVIII activity exhibited both AAV and LNP dose dependency with no animal exceeding 150% of normal, the maximum acceptable level of human FVIII activity
- The treatment was well tolerated in all animals without significant elevation of liver enzymes, except in the highest dose of LNP where transient elevations in liver enzymes were observed

**Figure 4.** Dose dependent FVIII activity in NHPs; minimally efficacious and clinically relevant doses identified

## Dose dependent FVIII activity in NHP: minimally efficacious and clinically relevant doses identified

**AAV dose response identified  
the optimal efficacious dose  
of  $5 \times 10^{12}$  vg/kg:**

**LNP dose response identified 0.2 mpk  
as the minimally efficacious dose  
and 0.6 mg/kg as optimal dose:**



FVIII activity for each animal is the mean of values on d5, d8, d11 post LNP measured with a capture-chromogenic assay. hFVIII activity was stable from d5 to d11 post LNP. Xyntha was used for the standard curve. Means and standard deviation per group are shown.

The data from our dose range finding study also demonstrated improved FVIII activity with reduced variability, building upon previously announced results with the B-domain deleted FVIII construct that demonstrated durable FVIII activity over an approximately 19-month study. This earlier NHP study used a cynomolgus version of the FVIII gene (“cFVIII”) to avoid the confounding effects of anti-human FVIII antibodies. MGX-001 has also shown no identifiable off-target editing in a series of orthogonal assays employed to discover and validate potential off-target sites.

### Next Steps for the MGX-001 Hemophilia A Program

In the fourth quarter of 2025, we completed a pre-IND meeting for the development of MGX-001. We remain on track for regulatory submission to advance a global clinical program, including an investigational new drug application (“IND”) in the fourth quarter of 2026, and subject to regulatory clearance, initiate clinical trials in 2027.

### MGX-001 Large Gene Integration System for Secreted Protein Deficiency Disorders

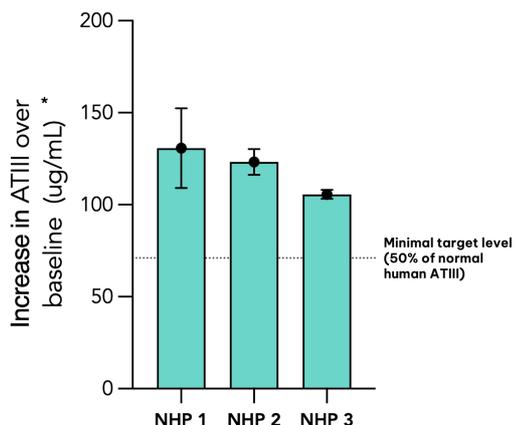
Leveraging the MGX-001 editing system, we have advanced additional wholly-owned therapeutic candidates targeting secreted protein deficiencies with the goal of achieving a gene knock-in yielding targeted and durable gene expression, similar to our goal for hemophilia A. For these indications, we replaced the gene that is inserted into the AAV with the gene for the secreted protein of interest. We used the same AAV serotype and general cassette design from our hemophilia A program. In 2024, we achieved in vivo proof-of-concept in mouse for three different secreted protein deficiencies.

In late 2025, we demonstrated NHP proof-of-concept for one of our secreted protein deficiency targets, AT-III. Severe AT-III deficiency significantly increases the risk of venous thromboembolism, a serious medical condition which can lead to immediate, life-threatening emergencies as well as severe, lifelong disabilities. On average, patients with severe disease have 50% of normal AT-III levels in their blood. As such, replacing the missing AT-III with at least 50% of normal AT-III levels is anticipated to be curative.

As shown in Figure 5, we demonstrated the curative potential of the MGX-001 large gene integration system in an in vivo study in NHPs. Data from the study showed that circulating AT-III protein exceeded the curative target of 50% of normal human levels in all three NHPs in this additional secreted protein disorder. The animals experienced only transient elevations in liver transaminases with no change in bilirubin or other safety findings of note.

**Figure 5.** In vivo proof-of-concept achieved in AT-III with MGX-001 site specific large gene integration system

**Achieved circulating AT-III protein exceeding curative target of 50% of normal human levels**



\*Data are the mean of day 8 and 11 post-dosing minus the mean of days 0, 4 and 7 pre-dose.

We are evaluating optimal additional applications of the MGX-001 system, including AT-III and other secreted protein deficiencies, as we advance MGX-001 for the treatment of hemophilia A toward proof-of-concept in humans.

***Ionis Collaboration – Indications in Cardiometabolic Diseases***

We are currently in Wave 1 of our collaboration with Ionis Pharmaceuticals, Inc. (“Ionis”) focused on four disease targets in cardiometabolic indications. In December 2025, we announced apolipoprotein C-III (“APOC3”) for the treatment of hyper triglyceridemia (“HTG”) as the third collaboration target in Wave 1, and we jointly presented preclinical data in mice and NHP at the Nature Conference, “Cracking the Code: Nucleic Acid Medicines Coming of Age.” Additional targets in Wave 1 include transthyretin (“TTR”) for transthyretin amyloidosis, angiotensinogen (“AGT”) for refractory hypertension, and one undisclosed program. All four targets in Wave 1 are in the lead optimization phase of development and are designed to achieve protein reduction via gene knockout.

***Future Programs - Areas of Therapeutic Activity and Interest***

We are exploring opportunities to pursue neuromuscular disease targets and liver disease targets such as A1AT and Wilson Diseases, as well as partnerships for applications including cell therapy.

***Our License and Collaboration Agreements***

***Ionis Collaboration and License Agreement***

On November 10, 2022, the effective date, we entered into a Collaboration and License Agreement (the “Ionis Agreement”) with Ionis to collaborate on drug discovery and exploratory research activities to advance new medicines using gene editing strategies, with the goal of discovering novel medicines. Pursuant to the terms of the Ionis Agreement, we granted Ionis and its affiliates a worldwide exclusive, royalty-bearing license, with the right to grant sublicenses, to use all licensed systems and licensed products in the field of in vivo gene editing for all therapeutic, prophylactic, palliative, and analgesic uses in humans. In connection with the Ionis Agreement, we also have the right to exercise an exclusive option to co-develop and co-commercialize certain products under a drug discovery program. A joint steering committee was established by both parties to coordinate, oversee, and monitor the research and drug discovery activities under the Ionis Agreement. Each party must use commercially reasonable efforts to perform and complete its respective activities under the applicable program plans approved by the joint steering committee.

We will collaborate to discover therapeutic products under a drug discovery program and develop a drug discovery plan for each target, selected by Ionis. The target selection is divided into two waves: up to four targets in Wave 1 and up to four targets in Wave 2. For each drug discovery program, once the parties identify a development candidate that is suitable for further development, Ionis will be responsible for the development and commercialization of products resulting from such program. Per the terms of the Ionis Agreement, at any time prior to the designation of a development candidate for a drug discovery program and for any reason, Ionis may replace the collaboration target, provided such target has not previously been substituted out. Ionis may substitute (i) up to two Wave 1 targets and (ii) up to two Wave 2 targets.

The drug discovery activities for a program commence on the selection of a target and expire upon the earlier of (a) completion of all drug discovery activities for such program, (b) the fifth anniversary of the effective date and (c) selection of a development candidate for such drug discovery program. If one or more Wave 2 targets become collaboration targets as a result of the parties achieving enabled delivery and less than two years are remaining in the drug discovery term, then the term will be extended to the earlier of (i) the time that we complete all of our activities under the applicable drug discovery plan and (ii) the seventh anniversary of the effective date, subject to our consent.

We will also conduct an exploratory research program, and will jointly optimize gRNA and select delivery technologies and other activities. The exploratory research activities commence on the effective date and expire upon the earlier of (a) completion of all exploratory research activities established in the exploratory research plan, and (b) the fifth anniversary of the effective date.

We have the exclusive option to co-develop and co-commercialize the licensed products under a drug discovery program (the “Co-Co Option”) with Ionis. The Co-Co Option may be exercised for (a) the initial Wave 1 target (“Target 1”), (b) no more than one of the other three discovery programs for the Wave 1 targets, and (c) no more than two drug discovery programs for the Wave 2 targets that become collaboration targets. If we exercise the Co-Co Option for a particular drug discovery program, that drug discovery program will automatically be deemed a “Co-Co Program”, all corresponding licensed products be deemed “Co-Co Products,” we will be obligated to pay Ionis an option exercise fee, and we and Ionis will enter into a separate co-development and co-commercialization agreement. The Co-Co Option exercise fee will equal 50% of Ionis’ internal costs and out-of-pocket costs incurred in the conduct of the drug discovery activities prior to the exercise of the Co-Co Option and be reduced by 50% of our corresponding costs incurred. Future development and commercialization costs will be shared equally. We may elect to reduce our cost-share percentage anywhere between 50% and 25% on a go-forward basis, provided we will continue to bear 50% of the costs of any clinical trials ongoing at the time of the election through the completion of the clinical trials.

We will manufacture all licensed systems and certain components of the applicable licensed products that are needed by Ionis for use in its development activities and all of our manufactured components needed by Ionis for use in its commercialization activities. We will provide the manufactured components at a price that represents the cost of goods plus 15%.

Pursuant to the terms of the Ionis Agreement, we have also been granted an option to obtain a non-exclusive, royalty-bearing license, with the right to grant sublicenses, for certain Ionis’ background technology to use in up to eight therapeutic products discovered by us in the field of in vivo gene editing and directed to a Collaboration Target (each such product, a “Metagenomi Product” and each such option an “Ionis IP Option”), but subject to encumbrance checks with respect to particular targets. A Collaboration Target is a target that is selected by Ionis, and, with respect to us, is not the subject of discussions with a third party, is not the subject of a contractual grant of rights to a third party nor the subject to an internal research and development program. If we exercise our Ionis IP Option, we will pay to Ionis up to several million dollars per Metagenomi Product upon achievement of certain clinical and regulatory milestones. We are also obligated to pay Ionis royalties in an amount equal to a low single-digit royalty on the net sales of the applicable Metagenomi Product on product-by-product and country-by-country basis.

In November 2022, we received an \$80.0 million upfront payment from Ionis for the Wave 1 drug discovery research collaboration and selected Target 1. Ionis selected its second target (“Target 2”) in Wave 1 in December 2022, its third target (“Target 3”) in Wave 1 in November 2023, and its fourth target (“Target 4”) in Wave 1 in February 2024. Ionis has an option to select up to four Wave 2 targets at any time during the drug discovery term, if (a) an IND for any licensed product directed to a Wave 1 target is filed with the applicable regulatory authority or (b) the parties achieve enabled delivery for a non-liver target under the exploratory research activities, by providing written notice and by paying a Wave 2 target selection fee of \$15.0 million or \$30.0 million, depending on and per the selected target.

Ionis is obligated to reimburse us for all internal costs and out-of-pocket costs incurred in the performance of the exploratory research activities, up to an aggregate of \$10.0 million, which is payable in quarterly installments of \$0.5 million during the exploratory research term. As of December 31, 2025, we received a total of \$5.8 million related to the reimbursable expenses. We are also eligible to receive (a) up to \$29.0 million in future development milestone payments for each licensed product; (b) up to \$60.0 million in future regulatory milestone payments for each licensed product; (c) up to \$250.0 million in sales-based milestones for each licensed product; and (d) royalties on annual net sales of licensed products from a mid-single-digit to low-teens percentage, subject to customary reductions.

The term of the Ionis Agreement will continue (i) with respect to the drug discovery programs, until the expiration of all applicable royalty terms for a licensed product, (ii) with respect to the Co-Co Programs, until the parties cease all exploitation for the Co-Co Products that are the subject to such Co-Co Program, and (iii) with respect to the Metagenomi Products, until the expiration of the royalty term for a Metagenomi Product.

The royalty term ends on the latest of the following two dates: (i) the expiration of (A) the last claim of any issued and unexpired patent, or (B) a claim within a patent application that has not been pending for more than seven years from the earliest date to which the claim or applicable patent application is entitled to claim priority and which claim has not been revoked, canceled, withdrawn, held invalid, or abandoned, or (ii) 12 years following the first commercial sale of a licensed product.

The Ionis Agreement may be terminated during the term by either party for an uncured material breach or bankruptcy by the other party. Additionally, Ionis may terminate the Ionis Agreement for convenience and without penalty, in its entirety or on a licensed product-by-licensed product basis, by providing 90 days' written notice. Upon termination, Ionis will transfer to us ownership of all regulatory approvals, and all licenses granted under the agreement with respect to the applicable products under the agreement shall terminate, subject to an orderly wind-down period and a right for Ionis to sell or otherwise dispose of applicable products on hand at the time of such termination. Upon our written request within 30 days following termination, Ionis will grant us an exclusive, royalty-bearing (as agreed by the parties at such time), right and license, with the right to grant sublicenses through multiple tiers, to patent rights and know-how controlled by Ionis and used in the development, commercialization, or exploitation of terminated products, solely for the exploitation of such terminated products in the terminated countries.

#### *Acuitas License Agreement*

On September 29, 2025 (the "Effective Date"), we entered into a Non-Exclusive License Agreement (the "Acuitas License Agreement") with Acuitas Therapeutics, Inc. ("Acuitas") pursuant to which Acuitas granted us a non-exclusive license to certain Acuitas lipid nanoparticle ("LNP") technology, including LNP patents, formulation processes, and analytical characterization methods for manufacturing products that incorporate our proprietary genome editing constructs formulated with Acuitas LNP technology, to research, develop, sell, and commercialize certain licensed products in connection with a single target.

Simultaneous with the execution of the Acuitas License Agreement, we were obligated to pay a licensing fee of \$3.0 million. As the licensed products have not reached technological feasibility and have no alternate use, the licensing fee was recorded as research and development expense. Further, we are also obligated to pay Acuitas (i) a license maintenance fee in the low seven figures, payable on the one year anniversary of the Effective Date and each twelve month anniversary thereafter until such time as the first patient is dosed in a Phase 1 study for a licensed product under the Acuitas License Agreement; (ii) milestone payments in the low to mid seven figures upon certain regulatory and commercialization milestones; and (iii) royalties in the low to mid-single digit percentage of net sales. We assessed the milestone and royalty events involving the Acuitas License Agreement and determined that no accruals related to such events were required as of December 31, 2025.

The Acuitas License Agreement will remain in effect on a licensed product-by-licensed product and country-by-country basis until there are no outstanding royalty payments owed to Acuitas. Further, the Acuitas License Agreement may be terminated by either party for material breach or upon a party's insolvency or bankruptcy, and Acuitas may immediately terminate in specified situations. Upon 30 days written notice, we have the right to terminate the Acuitas License Agreement at our discretion.

#### *Termination of Affini-T Agreement*

On September 30, 2025 (the "Termination Date"), we delivered to Affini-T Therapeutics, Inc. ("Affini-T") a notice to terminate the Development, Option and License Agreement, dated June 14, 2022 (the "Affini-T Agreement") by and between us and Affini-T, effective immediately, due to Affini-T's making of an assignment for the benefit of creditors.

The initial term of the Affini-T Agreement was five years from the effective date. After the option exercise, Affini-T agreed to use commercially reasonable efforts to conduct all development and commercialization activities for a licensed product, and development and commercialization of all licensed products would be at Affini-T's sole cost and expense. On April 14, 2025, Affini-T exercised an option to a non-exclusive license for one of its pre-specified targets triggering an exercise payment to us of \$0.3 million.

In connection with the Affini-T Agreement, we received upfront equity consideration of 719,920 shares of Affini-T's common stock with an estimated fair value of \$1.3 million in June 2022. Upon achievement of a regulatory milestone in July 2024 related to the submission of drug master files to the FDA in support of an IND for Affini-T's T-cell receptor-based therapy, we received additional equity consideration of 933,650 shares of Affini-T common stock with an estimated fair value of \$1.6 million in July 2024. The fair value of Affini-T's shares of common stock was estimated by management, considering the most recent third-party valuation at the time of each grant. Affini-T has also agreed to reimburse us for expenses incurred while performing research activities under the research plans. As of December 31, 2025, we received a total of \$7.8 million from Affini-T related to reimbursable expenses.

#### *Termination of Moderna Agreement*

On April 26, 2024 (the "Termination Date"), we and ModernaTx, Inc. ("Moderna") mutually terminated the Strategic Collaboration and License Agreement, dated October 29, 2021 (the "Moderna Agreement"), by and between us and Moderna. As a result of the termination of the Moderna Agreement, we regained full development and commercialization rights to our wholly-owned base editing and RIGS technologies that were subject to the Moderna Agreement and regained full rights to our Primary Hyperoxaluria Type 1 ("PH1") program. We have decided to look for a partner or licensee for further development of PH1. Previously disclosed data achieved preclinical proof-of-concept in an accepted disease model of PH1. For additional information, refer to Note 7, "Significant Agreements", in our financial statements included in Part II, Item 8 of this Annual Report on Form 10-K.

#### **Competition**

The pharmaceutical and biotechnology industries, including the gene therapy and genome editing fields, are characterized by rapidly changing technologies, significant competition and a strong emphasis on intellectual property. We will face competition with respect to any product candidates that we may seek to develop or commercialize in the future from major pharmaceutical companies, specialty pharmaceutical companies and biotechnology companies worldwide. Potential competitors also include academic institutions, government agencies and other public and private research organizations that conduct research, seek patent or other intellectual property protection and establish collaborative arrangements for research, development, manufacturing and commercialization.

There are a number of large pharmaceutical and biotechnology companies that currently market and sell products or are pursuing the development of products for the treatment of the disease indications for which we have research programs. Some of these competitive products and therapies are based on scientific approaches that are the same as or similar to our approach, while others are based on entirely different approaches.

Amongst publicly traded peers, there are several companies utilizing CRISPR/Cas technology, including Caribou Biosciences, Inc., Editas Medicine, Inc., CRISPR Therapeutics AG and Intellia Therapeutics, Inc. Several additional companies such as Sangamo Therapeutics, Inc., Precision BioSciences, Inc., and Cellectis Inc. utilize alternative nuclease-based genome editing technologies, including zinc finger nucleases ("ZFNs"), engineered meganucleases and transcription-activator like effector nucleases ("TALENs"). Beam Therapeutics and Verve Therapeutics, Inc. (acquired by Eli Lilly and Company) utilize base editing technology. Prime Medicine utilizes prime editing technology.

In addition, Tessera Therapeutics, Inc. has announced their work in recombinase DNA and RNA gene writers, although, as a privately-held company, less is known publicly about their science or portfolio. Other companies such as nChroma Bio and Tune Therapeutics, Inc. are focused on epigenetic editing. In addition, we face competition from companies utilizing gene therapy, oligonucleotides and cell therapy approaches.

Several private companies such as Arbor Biotechnologies, Inc., Scribe Therapeutics Inc., and Mammoth Biosciences, Inc. are actively searching for novel genome editing components and have reported the discovery of new DNA-cutting enzymes. Other companies are active in LNP delivery technologies and advancing those into therapeutics using genetic therapies, including Recode Therapeutics, Inc., Verve Therapeutics, Inc. (acquired by Eli Lilly and Company), Generation Bio Co. and Beam Therapeutics, among others.

Any product candidates that we successfully develop and commercialize will compete with existing therapies and new therapies that may become available in the future that are approved to treat the same diseases for which we may obtain approval for any product candidates we may develop. This may include other types of therapies, such as small molecule, antibody and/or protein therapies. For example, valoctocogene roxaparvovec, the first hemophilia A gene therapy, was conditionally approved for use in Europe in August 2022 and was approved in the United States in June 2023.

Many of our current or potential competitors, either alone or with their collaboration partners, may have significantly greater financial resources and expertise in research and development, manufacturing, conducting preclinical studies and clinical trials, obtaining regulatory approvals and marketing approved products than we do. Mergers and acquisitions in the pharmaceutical, biotechnology and gene therapy industries may result in even more resources being concentrated among a smaller number of our competitors. Smaller or early-stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large and established companies. These competitors also compete with us in recruiting and retaining qualified scientific and management personnel and establishing clinical trial sites and patient registration for clinical trials, as well as in acquiring technologies complementary to, or necessary for, our programs. Our commercial opportunity could be reduced or eliminated if our competitors develop and commercialize product candidates that are safer, more effective, have fewer or less severe side effects, are more convenient, or are less expensive than any product candidates that we may develop or that would render any product candidates that we may develop obsolete or non-competitive. Our competitors also may obtain FDA or other regulatory approval for their product candidates more rapidly than we may obtain approval for ours, which could result in our competitors establishing a strong market position before we are able to enter the market. Additionally, technologies developed by our competitors may render our potential product candidates uneconomical or obsolete, and we may not be successful in marketing any product candidates we may develop against competitors.

In addition, as a result of the expiration or successful challenge of our patent or other intellectual property rights, we could face risks relating to our ability to successfully prevent or delay launch of competitors' products. The availability of our competitors' products could limit the demand and the price we are able to charge for any product candidates that we may develop and commercialize.

### **Manufacturing**

Our genome editing technology is composed of multiple genome editing components including the nuclease, mRNA, gRNA, and in some instances may include a donor DNA or RNA template for insertions. We have extensively characterized each of these components and have made significant investment in scalable manufacturing and process automation to meet stringent current good manufacturing practices ("cGMP"), and if applicable, current good tissue practices ("cGTPs"). Our in-house cGMP facility is capable of manufacturing clinical grade nucleases and mRNA to supply both wholly-owned and collaboration programs. We partner with contract manufacturing organizations ("CMOs") for gRNA and DNA template development and supply. If any one of our current contract manufacturers or suppliers cannot perform as agreed, we may be required to replace that manufacturer or supplier. Although we believe that there are several potential alternative suppliers to support any product candidates we may develop, we may incur added costs and delays in identifying and qualifying any such replacement. We continue to invest in both viral and non-viral delivery technologies internally and with partners.

We believe our ability to develop, characterize, and manufacture complex human genome editing components is essential to maintaining a competitive edge while pursuing a successful regulatory pathway for genetic medicine.

### **Intellectual Property**

Our success depends in large part upon our ability to obtain and maintain our technology and intellectual property. To protect our intellectual property rights, we primarily rely on patents and trade secret laws, confidentiality procedures, and employee disclosure and invention assignment agreements. Our intellectual property is critical to our business and we strive to protect it through a variety of approaches, including by obtaining and maintaining patent protection in various countries for our genome editing technology and other inventions that are important to our business.

Patents have a limited lifespan. In the United States, the natural expiration of a patent is generally 20 years from its earliest U.S. non-provisional filing date. The time required for development, testing, and regulatory review of our genome editing systems limits the commercially useful lifespan of our patents.

The patent positions of companies like ours are generally uncertain and involve complex legal and factual questions. No consistent policy regarding the scope of patentable claims in the field of genome editing has emerged, for example, in the United States and in Europe. Changes in the patent laws and rules, either by legislation, judicial decisions, or regulatory interpretation may diminish our ability to protect our inventions and enforce our intellectual property rights. These changes could affect the scope and value of our intellectual property.

Filing, prosecuting, enforcing, and defending patents protecting our genome editing systems in all countries throughout the world would be prohibitively expensive. We cannot seek patent protection for our genome editing systems throughout the world. Furthermore, the intellectual property rights we obtain in some countries outside the United States can be less extensive than those obtained in the United States. The requirements for patentability may differ in certain countries, particularly in developing countries; thus, even in countries where we do pursue patent protection, there can be no assurance that any patents will issue with claims that cover our products.

Our ability to stop third parties from infringing any of our patented inventions, either directly or indirectly, will depend in part on our success in obtaining, defending, and enforcing patent claims that cover our genome editing systems. We cannot be sure that any patents will be granted with respect to any of our pending patent applications or with respect to any patent applications filed by us in the future. We cannot be sure that any of our existing patents or any patents that may be granted to us in the future will be found by a court to be enforceable. Protecting our competitive position around our genome editing systems may involve lawsuits to enforce our patents or other intellectual property, which is expensive and time consuming, and may ultimately be unsuccessful. Furthermore, our issued patents and those that may issue in the future may be challenged, narrowed, circumvented, or invalidated, which could limit our ability to stop competitors from marketing related genome editing systems or limit the length of the term of patent protection that we may have for our genome editing systems and future gene therapies. We cannot be sure that any of our existing patents or any patents that may be granted to us in the future will be useful in protecting our commercialized genome editing systems. The rights granted under any issued patents may not provide us with complete protection or competitive advantages against competitors with similar but not identical technology or technologies that achieve similar outcomes but with different approaches. For these reasons, we may have competition for our genome editing systems.

Our issued patents and those that may issue in the future do not guarantee us the right to practice our genome editing systems. Third parties may have issued patents or be granted patents in the future that could block our ability to commercialize our genome editing systems.

We and third parties rely on trade secrets to protect certain aspects of our genome editing systems. If we are unable to protect the confidentiality of our trade secrets, our competitive position could be harmed. Furthermore, reliance on trade secrets does not prevent third parties from independently inventing those aspects of our genome editing systems. While we take commercially reasonable steps to ensure that our employees do not use the trade secrets of third parties, third parties may file claims asserting that we or our employees have misappropriated their trade secret.

For this and other risks related to our technology, inventions, improvements, platforms, and genome editing technology, please see the section entitled “Risk Factors—Risks Related to Our Intellectual Property.”

#### *Patent Portfolio*

As of December 31, 2025, we own 11 issued U.S. patents, 46 pending U.S. non-provisional patent applications, 10 pending U.S. provisional patent applications, 29 issued foreign patents in Australia, Canada, Europe, Great Britain, Hong Kong, Japan, Mexico and South Korea, 295 pending foreign patent applications, including in Australia, Canada, China, Europe, Great Britain, Hong Kong, India, Israel, Japan, Korea, Mexico and Brazil, and 11 Patent Cooperation Treaty (“PCT”) patent applications.

The patent portfolios for our genome editing systems as of December 31, 2025 are summarized below.

Our type II CRISPR systems are protected by four issued U.S. patents with composition of matter claims covering genome editing systems using Type II nucleases, and seven pending U.S. non-provisional patent applications with composition of matter claims covering genome editing systems using Type II nucleases and methods of using them. Our type II CRISPR systems are also protected by 10 issued foreign patents with composition of matter claims covering genome editing systems using Type II nucleases, including in Canada, South Korea, Great Britain, Australia and Mexico, 43 pending foreign patent applications with composition of matter claims covering genome editing systems using Type II nucleases and methods of using them, including in Australia, Canada, China, Europe, Great Britain, Hong Kong, India, Japan, Korea, Mexico, and Brazil, and one PCT patent application with composition of matter claims covering genome editing systems using Type II nucleases and methods of using them. The aforementioned issued U.S. patents will expire on February 14, 2040, and the issued foreign patents will expire on February 14, 2040. If issued, the aforementioned patent applications are expected to expire between February 14, 2040 and November 15, 2044.

Our type V CRISPR systems are protected by two issued U.S. patents and four pending U.S. non-provisional patent applications with composition of matter claims covering genome editing systems using Type V nucleases with composition of matter claims covering genome editing systems using Type V nucleases and methods of using them. Our type V CRISPR systems are also protected by seven issued foreign patents with composition of matter claims covering genome editing systems using Type V nucleases, including in Australia, Great Britain, Hong Kong and South Korea, 28 pending foreign patent applications with composition of matter claims covering genome editing systems using Type V nucleases and methods of using them, including in Australia, Brazil, Canada, China, Europe, Hong Kong, India, Israel, Japan, South Korea, and Mexico, and one PCT patent application with composition of matter claims covering genome editing systems using Type V nucleases and methods of using them. The aforementioned issued U.S. patents will expire on March 6, 2041, and the issued foreign patents will expire on March 5, 2041 and March 6, 2041. If issued, the aforementioned patent applications are expected to expire between March 6, 2041 and December 4, 2045.

Our base editor systems are protected by two issued U.S. patents and five pending U.S. non-provisional patent applications with composition of matter claims covering genome editing systems using nucleases and base editors and methods of using them. Our base editor systems are also protected by two issued foreign patents with composition of matter claims covering genome editing systems using nucleases and base editors, 25 pending foreign patent applications with composition of matter claims covering genome editing systems using nucleases and base editors and methods of using them, including in Australia, Canada, China, Europe, Great Britain, Hong Kong, India, Japan, Korea, Mexico, and Brazil, and one PCT patent applications with composition of matter claims covering genome editing systems using nucleases and base editors and methods of using them. The aforementioned issued foreign patent will expire on September 9, 2041. If issued, the aforementioned patent applications are expected to expire between September 10, 2041 and October 6, 2045.

Our CAST systems are protected by five pending U.S. non-provisional patent applications with composition of matter claims covering genome editing systems using nucleases in combination with either recombinases or transposases and methods of using them. Our CAST systems are also protected by 44 pending foreign patent applications with composition of matter claims covering genome editing systems using nucleases in combination with either recombinases or transposases and methods of using them, including in Australia, Brazil, Canada, China, Europe, Great Britain, Hong Kong, India, Israel, Japan, South Korea, and Mexico, and one PCT patent applications with composition of matter claims covering genome editing systems using nucleases in combination with either recombinases or transposases and methods of using them. If issued, the aforementioned patent applications are expected to expire between August 23, 2041 and August 5, 2045.

Our Cas chimera systems are protected by two pending U.S. non-provisional patent applications with composition of matter claims covering genome editing systems using chimeric nucleases and methods of using them. Our Cas chimera systems are also protected by two issued foreign patents in Great Britain and Hong Kong, and 20 pending foreign patent applications, including in Australia, Brazil, Canada, China, Europe, India, Japan, South Korea and Mexico with composition of matter claims covering genome editing systems using chimeric nucleases, and one PCT patent applications with composition of matter claims covering genome editing systems using chimeric nucleases and methods of using them. If issued, the aforementioned patent applications are expected to expire between January 21, 2042 and September 13, 2044.

Our SMART nuclease systems are protected by two issued U.S. patent and four pending U.S. non-provisional patent applications with composition of matter claims covering genome editing systems using small nucleases. Our SMART nuclease systems are also protected by 8 issued foreign patents in Great Britain, Korea, Spain, Ireland, Switzerland, and Japan, 26 pending foreign patent applications with composition of matter covering genome editing systems using small nucleases and methods of using them, including in Australia, Canada, China, Europe, Great Britain, Hong Kong, India, Japan, Korea, and Mexico, and one PCT patent application with composition of matter claims covering genome editing systems using small nucleases and methods of using them. The aforementioned issued U.S. patent will expire on March 30, 2041 and the aforementioned issued foreign patents will expire on March 30, 2041. If issued, the aforementioned patent applications are expected to expire between March 30, 2041 and August 21, 2045.

We cannot predict whether the patent applications we pursue or may license in the future will issue as patents in any particular jurisdiction or whether the claims of any issued patents will provide any protection from competitors. Even if our pending patent applications are granted as issued patents, those patents, as well as any patents we may license in the future from third parties now or in the future, may be challenged, circumvented or invalidated by third parties. Consequently, we may not obtain or maintain adequate patent protection for any of our programs and genome editing systems.

The term of individual patents depends upon the legal term of the patents in the countries in which they are obtained. In most countries in which we file, the patent term is 20 years from the earliest date of filing of a non-provisional patent application. In the United States, the patent term of a patent may be extended by patent term adjustment, which compensates the patent owner for patent office delays. Additionally, in the United States, patents that cover an FDA-approved drug or biologic may also be eligible for patent term extension, which permits patent term restoration as compensation for the patent term lost during FDA regulatory review process. The Hatch-Waxman Act permits a patent term extension of up to five years beyond the expiration of the patent. The length of the patent term extension is related to the length of time the drug or biologic is under regulatory review. Patent term extension cannot extend the remaining term of a patent beyond a total of 14 years from the date of product approval, only one patent applicable to an approved drug or biologic may be extended and only those claims covering the approved drug or biologic, a method for using it, or a method for manufacturing it may be extended. Similar provisions are available in European Member States and other foreign jurisdictions to extend the term of a patent that covers an approved drug or biologic. In the future, if our investigational gene therapies receive FDA approval, we expect to apply for patent term extensions where applicable on patents covering those products. We plan to seek patent term extensions to any of our issued patents in any jurisdiction where these are available, however there is no guarantee that the applicable authorities, including the U.S. Patent and Trademark Office (“USPTO”) in the United States, will agree with our assessment of whether these extensions should be granted, and if granted, the length of these extensions.

Our intellectual property is critical to our business and we strive to protect it through a variety of approaches, including by obtaining and maintaining patent protection in various countries for our genome editing technology and other inventions that are important to our business.

#### *Trademarks*

As of December 31, 2025, we own the trademark registrations for Metagenomi in the United States and we have trademark applications for Metagenomi SMART in the United States.

#### *Trade Secrets and Proprietary Information*

In addition to our reliance on patent protection for our inventions, investigational gene therapies and research programs, we also rely on trade secrets, know-how, confidentiality agreements and continuing technological innovation to develop and maintain our competitive position. Although we take steps to protect our proprietary information and trade secrets, including through contractual means with our employees, advisors and consultants, these agreements may be breached and we may not have adequate remedies for any breach. In addition, third parties may independently develop substantially equivalent proprietary information and techniques or otherwise gain access to our trade secrets or disclose our technology. As a result, we may not be able to meaningfully protect our trade secrets. It is our policy to require our employees, consultants, outside scientific collaborators, sponsored researchers and other advisors to execute confidentiality agreements upon the commencement of employment or consulting relationships with us. These agreements provide that all confidential information concerning our business or financial affairs developed or made known to the individual or entity during the course of the party’s relationship with us is to be kept confidential and not disclosed to third parties except in specific circumstances. In the case of employees, the agreements provide that all inventions conceived of by the individual during the course of employment, and which relate to or are reasonably capable or being used in our current or planned business or research and development are our exclusive property. In addition, we take other appropriate precautions, such as physical and technological security measures, to guard against misappropriation of our technology by third parties. However, such agreements and policies may be breached and we may not have adequate remedies for such breaches. For more information regarding the risks related to our intellectual property, see “Risk Factors—Risks Related to Our Intellectual Property.”

#### **Government Regulation**

In the United States, biological products, including gene therapy products, are subject to regulation under the Federal Food, Drug, and Cosmetic Act (“FD&C Act”), and the Public Health Service Act (“PHS Act”), and other federal, state, local and foreign statutes and regulations. Both the FD&C Act and the PHS Act and their corresponding regulations govern, among other things, the research, development, clinical trial, testing, quality control, manufacturing, safety, efficacy, labeling, packaging, storage, record keeping, distribution, reporting, advertising, and other promotional practices involving biological products. Each clinical trial protocol for a gene therapy product must be reviewed by the FDA. FDA approval must be obtained before the marketing of biological products. The process of obtaining regulatory approvals and the subsequent compliance with appropriate federal, state, local and foreign statutes and regulations require the expenditure of substantial time and financial resources and we may not be able to obtain or maintain the required regulatory approvals.

### *U.S. Biological Product Development Process*

The process required by the FDA before a biological product candidate may be marketed in the United States generally involves, but is not limited to the following:

- completion of nonclinical laboratory tests and animal studies according to good laboratory practices (“GLPs”), unless justified and applicable requirements for the humane use of laboratory animals or other applicable regulations;
- submission to the FDA of an application for an IND, which must become effective before human clinical trials may begin;
- approval of the protocol and related documentation by an independent institutional review board (“IRB”), or ethics committee at each clinical trial site before each study may be initiated;
- performance of adequate and well-controlled human clinical trials according to the FDA’s regulations commonly referred to as good clinical practices (“GCPs”), and any additional requirements for the protection of human research subjects and their health information, to establish the safety and efficacy of the proposed biological product for its intended use;
- submission to the FDA of a biologics license application (“BLA”), for regulatory approval that includes sufficient evidence of establishing the safety, purity and potency of the proposed biological product for its intended indication, including from results of nonclinical testing and clinical trials;
- satisfactory completion of an FDA inspection of the manufacturing facility or facilities where the biological product is produced to assess compliance with cGMP, to assure that the facilities, methods and controls are adequate to preserve the biological product’s identity, strength, quality and purity and, if applicable, the FDA’s current good tissue practices (“CGTPs”), for the use of human cellular and tissue products;
- potential FDA audit of the nonclinical study and clinical trial sites that generated the data in support of the BLA in accordance with any applicable expedited programs or designations;
- review of the product candidate by an FDA advisory committee, where appropriate or if applicable;
- payment of user fees for FDA review of the BLA (unless a fee waiver applies); and
- FDA review and approval, or licensure, of the BLA.

Before testing any biological product candidate, including a gene therapy product, in humans, the product candidate enters the preclinical testing stage. Preclinical tests, also referred to as nonclinical studies, include laboratory evaluations of product biological characteristics, chemistry, toxicity, and formulation, as well as animal studies to assess the potential safety and activity of the product candidate. The conduct of the preclinical tests must comply with federal regulations and requirements including GLPs.

An IND is an exemption from the FD&C Act that allows an investigational product candidate to be shipped in interstate commerce for use in a clinical trial and a request for FDA authorization to administer such investigational product candidate to humans. Such authorization must be secured prior to interstate shipment and administration of any product candidate that is not the subject of an approved BLA. In support of a request for an IND, applicants must submit a protocol for each clinical trial and any subsequent protocol amendments must be submitted to the FDA as part of the IND. In addition, the results of the preclinical tests, together with manufacturing information, analytical data, any available clinical data or literature and plans for clinical trials, among other things, must be submitted to the FDA as part of an IND. The FDA requires a 30-day waiting period after the filing of each IND before clinical trials may begin. This waiting period is designed to allow the FDA to review the IND to determine whether human research subjects will be exposed to unreasonable health risks. At any time during this 30-day period the FDA may raise concerns or questions about the conduct of the trials as outlined in the IND and impose a clinical hold or partial clinical hold. In this case, the IND sponsor and the FDA must resolve any outstanding concerns before clinical trials can begin.

Following commencement of a clinical trial, the FDA may also place a clinical hold or partial clinical hold on that trial. A clinical hold is an order issued by the FDA to the sponsor to delay a proposed clinical investigation or to suspend an ongoing investigation. A partial clinical hold is a delay or suspension of only part of the clinical work requested under the IND. No more than 30 days after imposition of a clinical hold or partial clinical hold, the FDA will provide the sponsor a written explanation of the basis for the hold. Following issuance of a clinical hold or partial clinical hold, an investigation may only resume after the FDA has notified the sponsor that the investigation may proceed. There also are requirements governing the reporting of ongoing clinical trials and completed clinical trial results to public registries. Information about certain clinical trials, including clinical trial results, must be submitted within specific timeframes for publication on the [www.clinicaltrials.gov](http://www.clinicaltrials.gov) website.

A sponsor may choose, but is not required, to conduct a foreign clinical trial under an IND. When a foreign clinical trial is conducted under an IND, all FDA IND requirements must be met unless waived. When a foreign clinical trial is not conducted under an IND, the sponsor must ensure that the study complies with certain regulatory requirements of the FDA in order to use the study as support for an IND or application for regulatory approval or licensing. In particular, such studies must be conducted in accordance with GCP, including review and approval by an independent ethics committee (“IEC”), and informed consent from subjects. The FDA must be able to validate the data through an onsite inspection, if deemed necessary by the FDA.

An IRB representing each institution participating in the clinical trial must review and approve the plan for any clinical trial before it commences at that institution, and the IRB must conduct continuing review and reapprove the study at least annually. The IRB must review and approve, among other things, the study protocol and informed consent information to be provided to study subjects. An IRB must operate in compliance with FDA regulations. An IRB can suspend or terminate approval of a clinical trial at its institution, or an institution it represents, if the clinical trial is not being conducted in accordance with the IRB’s requirements or if the product candidate has been associated with unexpected serious harm to patients. Some trials are overseen by an independent group of qualified experts organized by the trial sponsor, known as a data safety monitoring board or committee (“DSMB”). This group provides authorization as to whether or not a trial may move forward at designated check points based on access that only the group maintains to available data from the study.

In addition to the submission of an IND to the FDA before initiation of a clinical trial in the United States, certain human clinical trials involving recombinant or synthetic nucleic acid molecules may be subject to oversight of institutional biosafety committees (“IBCs”), as set forth in the National Institutes of Health (“NIH”), Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules (“NIH Guidelines”). Under the NIH Guidelines, recombinant and synthetic nucleic acids are defined as: (i) molecules that are constructed by joining nucleic acid molecules that can replicate in a living cell (i.e., recombinant nucleic acids); (ii) nucleic acid molecules that are chemically or by other means synthesized or amplified, including those that are chemically or otherwise modified but can base pair with naturally occurring nucleic acid molecules (i.e., synthetic nucleic acids); or (iii) molecules that result from the replication of those described in (i) or (ii). Specifically, under the NIH Guidelines, supervision of human gene transfer trials includes evaluation and assessment by an IBC, a local institutional committee that reviews and oversees research utilizing recombinant or synthetic nucleic acid molecules at that institution. The IBC assesses the safety of the research and identifies any potential risk to public health or the environment, and such review may result in some delay before initiation of a clinical trial. While the NIH Guidelines are not mandatory unless the research in question is being conducted at or sponsored by institutions receiving NIH funding for recombinant or synthetic nucleic acid molecule research, many companies and other institutions not otherwise subject to the NIH Guidelines voluntarily follow them.

Clinical trials typically are conducted in three sequential phases that may overlap or be combined:

- Phase 1. The biological product candidate is initially introduced into healthy human subjects and tested for safety. In the case of some biological product candidates for severe or life-threatening diseases, especially when the product candidate may be too inherently toxic to ethically administer to healthy volunteers, the initial human testing is often conducted in patients.
- Phase 2. The biological product candidate is evaluated in a limited patient population to identify possible adverse effects and safety risks, to preliminarily evaluate the efficacy of the product candidate for specific targeted diseases and to determine dosage tolerance, optimal dosage and dosing schedule.
- Phase 3. Clinical trials are undertaken to further evaluate dosage, clinical efficacy, potency and safety in an expanded patient population at geographically dispersed clinical trial sites. These clinical trials are intended to establish the overall risk/benefit ratio of the product candidate and provide an adequate basis for approval and product labeling.

Post-approval clinical trials, sometimes referred to as Phase 4 clinical trials, may be conducted after initial regulatory approval. These clinical trials are used to gain additional experience from the treatment of patients in the intended therapeutic indication, particularly for long-term safety follow-up. The FDA generally recommends that sponsors of human gene therapy product candidates and genome editing product candidates observe subjects for potential gene therapy-related delayed adverse events for up to a 15-year period, including five years of annual examinations followed by ten years of annual queries, either by telephone or by questionnaire, of study subjects.

During all phases of clinical development, the FDA requires extensive monitoring and auditing of all clinical activities, clinical data, and clinical trial investigators. Annual progress reports detailing the results of the clinical trials must be submitted to the FDA. Written IND safety reports must be promptly submitted to the FDA and the investigators for serious and unexpected suspected adverse events, any findings from other studies, tests in laboratory animals or in vitro testing that suggest a significant risk for human subjects, or any clinically important increase in the rate of a serious suspected adverse reaction over that listed in the protocol or investigator brochure. The sponsor must submit an IND safety report within 15 calendar days after the sponsor determines that the information qualifies for reporting. The sponsor also must notify the FDA of any unexpected fatal or life-threatening suspected adverse reaction within seven calendar days after the sponsor's initial receipt of the information. The FDA or the sponsor, acting on its own or based on a recommendation from the sponsor's data safety monitoring board may suspend a clinical trial at any time on various grounds, including a finding that the research subjects are being exposed to an unacceptable health risk. Similarly, an IRB can suspend or terminate approval of a clinical trial at its institution if the clinical trial is not being conducted in accordance with the IRB's requirements or if the biological product candidate has been associated with unexpected serious harm to patients.

Concurrent with clinical trials, companies usually complete additional animal studies and also must develop additional information about the physical characteristics of the biological product candidate as well as finalize a process for manufacturing the product candidate in commercial quantities in accordance with cGMP. To help reduce the risk of the introduction of adventitious agents with use of biological product candidates, the PHS Act emphasizes the importance of manufacturing control for product candidates whose attributes cannot be precisely defined. The manufacturing process must be capable of consistently producing quality batches of the product candidate and, among other things, the sponsor must develop methods for testing the identity, strength, quality, potency, and purity of the final biological product. Additionally, appropriate packaging must be selected and tested and stability studies must be conducted to demonstrate that the biological product candidate does not undergo unacceptable deterioration over its shelf life.

### *U.S. Review and Approval Processes*

After the completion of clinical trials of a biological product candidate, FDA approval of a BLA must be obtained before commercial marketing of the biological product. The BLA must include results of product development, laboratory and animal studies, human studies, information on the manufacture and composition of the product, proposed labeling and other relevant information. The testing and approval processes require substantial time and effort and there can be no assurance that the FDA will accept the BLA for filing and, even if filed, that any approval will be granted on a timely basis, if at all.

Within 60 days following submission of the application, the FDA reviews a BLA to determine if it is substantially complete before the FDA accepts it for filing. The FDA may refuse to file any BLA that it deems incomplete or not properly reviewable at the time of submission and may request additional information. In this event, the BLA must be resubmitted with the additional information. The resubmitted application also is subject to review before the FDA accepts it for filing. In most cases, the submission of a BLA is subject to a substantial application user fee, although the fee may be waived under certain circumstances. Under the performance goals and policies implemented by the FDA under the Prescription Drug User Fee Act ("PDUFA"), for original BLAs, the FDA targets ten months from the filing date in which to complete its initial review of a standard application and respond to the applicant, and six months from the filing date for an application with priority review. The FDA does not always meet its PDUFA goal dates, and the review process is often significantly extended by FDA requests for additional information or clarification. This review typically takes 12 months from the date the BLA is submitted to the FDA because the FDA has approximately two months to make a "filing" decision. The review process and the PDUFA goal date may be extended by three months if the FDA requests or the BLA sponsor otherwise provides additional information or clarification regarding information already provided in the submission within the last three months before the PDUFA goal date.

Once the submission is accepted for filing, the FDA begins an in-depth substantive review of the BLA. The FDA reviews the BLA to determine, among other things, whether the proposed product is safe, pure, and potent for its intended use, and whether the product is being manufactured in accordance with cGMPs to ensure the continued safety, purity, and potency of such product. The FDA may refer applications for novel biological products or biological products that present difficult or novel questions of safety or efficacy to an advisory committee, typically a panel that includes clinicians and other experts, for review, evaluation, and a recommendation as to whether the application should be approved and under what conditions. The FDA is not bound by the recommendations of an advisory committee, but it considers such recommendations carefully when making decisions. During the biological product approval process, the FDA also will determine whether a Risk Evaluation and Mitigation Strategy ("REMS"), is necessary to assure the safe use of the biological product. If the FDA concludes a REMS is needed, the sponsor of the BLA must submit a proposed REMS; the FDA will not approve the BLA without a REMS, if required.

Before approving a BLA, the FDA typically will inspect the facilities at which the product is manufactured. The FDA will not approve the product unless it determines that the manufacturing processes and facilities are in compliance with cGMP and adequate to assure consistent production of the product within required specifications. For a gene therapy product, the FDA also will not approve the product if the manufacturer is not in compliance with the CGTPs. These are FDA regulations that govern the methods used in, and the facilities and controls used for, the manufacture of human cells, tissues, and cellular and tissue-based products (“HCT/Ps”), which are human cells or tissue intended for implantation, transplant, infusion, or transfer into a human recipient. The primary intent of the CGTP requirements is to ensure that cell and tissue-based products are manufactured in a manner designed to prevent the introduction, transmission and spread of communicable disease. FDA regulations also require tissue establishments to register and list their HCT/Ps with the FDA and, when applicable, to evaluate donors through appropriate screening and testing. Additionally, before approving a BLA, the FDA will typically inspect one or more clinical sites to assure that the clinical trials were conducted in compliance with IND study requirements and GCP requirements. To assure cGMP, CGTP and GCP compliance, an applicant must incur significant expenditure of time, money, and effort in the areas of training, record keeping, production and quality control.

Under the Pediatric Research Equity Act (“PREA”), a BLA or supplement to a BLA for a novel product (e.g., new active ingredient, new indication, etc.) must contain data to assess the safety and effectiveness of the biological product for the claimed indications in all relevant pediatric subpopulations and to support dosing and administration for each pediatric subpopulation for which the product is safe and effective. The FDA may grant deferrals for submission of data or full or partial waivers. Unless otherwise required by regulation, PREA does not apply to any biological product for an indication for which orphan designation has been granted.

After the FDA evaluates a BLA and conducts inspections of manufacturing facilities where the biological product will be manufactured, the FDA may issue an approval letter or a Complete Response Letter. An approval letter authorizes commercial marketing of the product with specific prescribing information for specific indications. A Complete Response Letter indicates that the review cycle of the application is complete, and the application will not be approved in its present form. A Complete Response Letter will usually describe all of the deficiencies that the FDA has identified in the BLA, except that where the FDA determines that the data supporting the application are inadequate to support approval, the FDA may issue the Complete Response Letter without first conducting required inspections, testing submitted product lots and/or reviewing proposed labeling. In issuing the Complete Response Letter, the FDA may recommend actions that the applicant might take to place the BLA in condition for approval, including responses to requests for additional information or clarification, which may include the potential requirement to conduct additional preclinical studies or clinical trials or additional manufacturing activities. If a Complete Response Letter is issued, the applicant may either resubmit the BLA, addressing all of the deficiencies identified in the letter, or withdraw the application, or request an opportunity for a hearing. The FDA may delay or refuse approval of a BLA if applicable regulatory criteria are not satisfied, and may require additional testing or information and/or require post-marketing testing and surveillance to monitor safety or efficacy of a product.

If a product receives regulatory approval, the approval may be significantly limited to specific diseases and dosages or the indications for use may otherwise be limited, including to subpopulations of patients, which could restrict the commercial value of the product. Further, the FDA may require that certain contraindications, warnings precautions or interactions be included in the product labeling. The FDA may impose restrictions and conditions on product distribution, prescribing or dispensing in the form of a REMS, or otherwise limit the scope of any approval. In addition, the FDA may require post-marketing clinical trials, sometimes referred to as Phase 4 clinical trials, designed to further assess a biological product’s safety and effectiveness, and testing and surveillance programs to monitor the safety of approved products that have been commercialized.

#### *Orphan Drug Designation*

Under the Orphan Drug Act, the FDA may grant orphan designation to a drug or biological product candidate intended to treat a rare disease or condition, which is generally a disease or condition that affects fewer than 200,000 individuals in the United States, or more than 200,000 individuals in the United States and for which there is no reasonable expectation that the cost of developing and making a drug or biological product candidate available in the United States for this type of disease or condition will be recovered from sales of the product. Orphan product designation must be requested before submitting a BLA. After the FDA grants orphan product designation, the identity of the therapeutic agent and its potential orphan use are disclosed publicly by the FDA.

If a product candidate that has orphan drug designation subsequently receives the first FDA approval for the disease or condition for which it has such designation, the product is entitled to orphan drug exclusive approval (or exclusivity), which means that the FDA may not approve any other applications, including a full BLA, to market the same product for the same indication for seven years, except in limited circumstances, such as a showing of clinical superiority to the product with orphan drug exclusivity by means of greater effectiveness, greater safety or providing a major contribution to patient care or if the holder of the orphan drug exclusivity cannot assure the availability of sufficient quantities of the orphan drug to meet the needs of patients with the disease or condition for which the product was designated. Orphan drug exclusivity does not prevent the FDA from approving a different drug or biologic for the same disease or condition, or the same drug or biologic for a different disease or condition. Among the other benefits of orphan drug designation are tax credits for certain research and a waiver of the BLA application fee. A designated orphan drug may not receive orphan drug exclusivity if it is approved for a use that is broader than the indication for which it received orphan drug designation. In addition, exclusive marketing rights in the United States may be lost if the FDA later determines that the request for designation was materially defective or if the manufacturer is unable to assure sufficient quantities of the product to meet the needs of patients with the rare disease or condition.

#### *Expedited Development and Review Programs*

The FDA has various programs, including fast track designation, breakthrough therapy designation, priority review and accelerated approval, that are intended to expedite or simplify the process for the development and FDA review of drugs and biologics that are intended for the treatment of serious or life-threatening diseases or conditions. These programs do not change the standards for approval but may help expedite the development or approval process. To be eligible for fast track designation, new drugs and biological products must be intended to treat a serious or life-threatening condition and demonstrate the potential to address unmet medical needs for the condition. Fast track designation applies to the combination of the product and the specific indication for which it is being studied. The sponsor of a new drug or biologic may request the FDA to designate the drug or biologic as a fast track product at any time during the clinical development of the product. One benefit of fast track designation, for example, is that the FDA may consider for review sections of the marketing application for a product that has received fast track designation on a rolling basis before the complete application is submitted.

Under the FDA's breakthrough therapy program, products intended to treat a serious or life-threatening disease or condition may be eligible for the benefits of the fast track program when preliminary clinical evidence demonstrates that such product may have substantial improvement on one or more clinically significant endpoints over existing therapies. Additionally, the FDA will seek to ensure the sponsor of a breakthrough therapy product receives timely advice and interactive communications to help the sponsor design and conduct a development program as efficiently as possible.

Any product is eligible for priority review if it has the potential to provide safe and effective therapy where no satisfactory alternative therapy exists or a significant improvement in the treatment, diagnosis or prevention of a disease compared to marketed products. The FDA will attempt to direct additional resources to the evaluation of an application for a new drug or biological product designated for priority review in an effort to facilitate the review. Under priority review, the FDA's goal is to review an application in six months once it is filed, compared to ten months for a standard review.

Additionally, a product may be eligible for accelerated approval. Drug or biological products studied for their safety and effectiveness in treating serious or life-threatening illnesses and that provide meaningful therapeutic benefit over existing treatments may receive accelerated approval, which means that they may be approved on the basis of adequate and well-controlled clinical trials establishing that the product has an effect on a surrogate endpoint that is reasonably likely to predict a clinical benefit, or on the basis of an effect on an intermediate clinical endpoint other than survival or irreversible morbidity. As a condition of approval, the FDA may require that a sponsor of a drug or biological product receiving accelerated approval perform adequate and well-controlled post-marketing clinical trials with due diligence, and, under the Food and Drug Omnibus Reform Act of 2022 ("FDORA"), the FDA is now permitted to require, as appropriate, that such trials be underway prior to approval or within a specific time period after the date of approval for a product granted accelerated approval. Under FDORA, the FDA has increased authority for expedited procedures to withdraw approval of a product or indication approved under accelerated approval if, for example, the confirmatory trial fails to verify the predicted clinical benefit of the product. In addition, for products being considered for accelerated approval, the FDA generally requires, unless otherwise informed by the agency, that all advertising and promotional materials intended for dissemination or publication be submitted to the agency for review, which could adversely affect the timing of the commercial launch of the product.

### *RMAT Designation*

As part of the 21st Century Cures Act, Congress amended the FD&C Act to facilitate an efficient development program for and expedite review of regenerative medicine advanced therapies (“RMAT”), which include cell and gene therapies, therapeutic tissue engineering products, human cell and tissue products and combination products using any such therapies or products, with limited exceptions. RMAT do not include those HCT/Ps regulated solely under section 361 of the PHS Act and 21 CFR Part 1271. This program is intended to facilitate efficient development and expedite review of regenerative medicine therapies, which are intended to treat, modify, reverse, or cure a serious or life-threatening disease or condition and qualify for RMAT designation. A drug sponsor may request that FDA designate a drug as a RMAT concurrently with or at any time after submission of an IND. FDA has 60 calendar days to determine whether the drug meets the criteria, including whether there is preliminary clinical evidence indicating that the drug has the potential to address unmet medical needs for a serious or life-threatening disease or condition. A BLA for a regenerative medicine therapy that has received RMAT designation may be eligible for priority review or accelerated approval through use of surrogate or intermediate endpoints reasonably likely to predict long-term clinical benefit, or reliance upon data obtained from a meaningful number of sites. Benefits of RMAT designation also include early interactions with FDA to discuss any potential surrogate or intermediate endpoint to be used to support accelerated approval. A regenerative medicine therapy with RMAT designation that is granted accelerated approval and is subject to post-approval requirements may fulfill such requirements through the submission of clinical evidence from clinical trials, patient registries, or other sources of real world evidence, such as electronic health records; the collection of larger confirmatory data sets; or post-approval monitoring of all patients treated with such therapy prior to its approval. Like some of the FDA’s other expedited development programs, RMAT designation does not change the standards for approval but may help with, but does not guarantee, an expedited development or approval process.

### *Rare Pediatric Disease Designation and Priority Review Vouchers*

Under the or FD&C Act, as amended, the FDA incentivizes the development of product candidates that meet the definition of a “rare pediatric disease,” defined to mean a serious or life-threatening disease in which the serious or life-threatening manifestations primarily affect individuals aged from birth to 18 years and the disease affects fewer than 200,000 individuals in the United States or affects 200,000 or more in the United States and for which there is no reasonable expectation that the cost of developing and making in the United States a drug or biologic for such disease or condition will be recovered from sales in the United States of such drug or biologic. The sponsor of a product candidate for a rare pediatric disease may be eligible for a voucher that can be used to obtain a priority review for a subsequent marketing application after the date of approval of the rare pediatric disease drug product. A sponsor may request rare pediatric disease designation from the FDA prior to the submission of its BLA. A rare pediatric disease designation does not guarantee that a sponsor will receive a priority review voucher (“PRV”) upon approval of its BLA. Moreover, a sponsor who chooses not to submit a rare pediatric disease designation request may nonetheless receive a PRV upon approval of their marketing application if they request such a voucher in their original marketing application and meet all of the eligibility criteria. If a PRV is received, it may be sold or transferred an unlimited number of times. The FDA’s authority to award rare disease priority review vouchers has been extended by Congress through September 30, 2029.

### *Post-Approval Requirements*

Maintaining substantial compliance with applicable federal, state and local statutes and regulations requires the expenditure of substantial time and financial resources. Products manufactured or distributed pursuant to FDA approvals are subject to pervasive and continuing regulation by the FDA, including, among other things, requirements relating to recordkeeping, periodic reporting, product sampling and distribution, advertising and promotion and reporting of adverse experiences with the product. If there are any modifications to the product, including changes in indications, labeling or manufacturing processes or facilities, the applicant may be required to submit and obtain FDA approval of a new BLA or BLA supplement, which may require the development of additional data or preclinical studies and clinical trials. Such regulatory reviews can result in denial or modification of the planned changes, or requirements to conduct additional tests or evaluations that can substantially delay or increase the cost of the planned changes. The FDA may also impose a number of post-approval requirements as a condition of approval of a BLA. For example, the FDA may require post-marketing testing, including Phase 4 clinical trials, and surveillance to further assess and monitor the product’s safety and effectiveness after commercialization.

Manufacturers of biological products are required to comply with applicable cGMP requirements, including quality control and quality assurance and maintenance of records and documentation. Other post-approval requirements applicable to biological products include reporting of cGMP deviations that may affect the identity, potency, purity and overall safety of a distributed product, record-keeping requirements, reporting of adverse effects, reporting updated safety and efficacy information, complying with electronic record and signature requirements and applicable product tracking and tracing requirements. After a BLA is approved, the product also may be subject to official lot release. As part of the manufacturing process, the manufacturer is required to perform certain tests on each lot of the product before it is released for distribution. If the product is subject to official release by the FDA, the manufacturer submits samples of each lot of product to the FDA together with a release protocol showing a summary of the history of manufacture of the lot and the results of all of the manufacturer's tests performed on the lot. The FDA also may perform certain confirmatory tests on lots of some products, such as viral vaccines, before releasing the lots for distribution by the manufacturer. In addition, the FDA conducts laboratory research related to the regulatory standards on the safety, purity, potency, and effectiveness of biological products.

If any of our product candidates obtain marketing approval, we also must comply with the FDA's advertising and promotion requirements, such as those related to direct-to-consumer advertising, the prohibition on promoting products for uses or in patient populations that are not described in the product's approved labeling (known as "off-label use"), industry-sponsored scientific and educational activities, and promotional activities involving the internet. Discovery of previously unknown problems or the failure to comply with the applicable regulatory requirements may result in restrictions on the marketing of a product or withdrawal of the product from the market as well as possible civil or criminal sanctions. Failure to comply with the applicable U.S. requirements at any time during the product development process, approval process or after approval, may subject an applicant or manufacturer to administrative or judicial civil or criminal sanctions and adverse publicity. FDA sanctions could include refusal to approve pending applications, withdrawal of an approval, clinical holds, FDA Form 483s, warning or untitled letters, product recalls, product seizures, total or partial suspension of production or distribution, injunctions, fines, refusals of government contracts, mandated corrective advertising or communications with doctors or other stakeholders, debarment, restitution, disgorgement of profits, or civil or criminal penalties.

Biological product manufacturers and other entities involved in the manufacture and distribution of approved biological products, and those supplying products, ingredients, and components of them, are required to register their establishments with the FDA and certain state agencies and are subject to periodic unannounced inspections by the FDA and certain state agencies for compliance with cGMP and other laws. Accordingly, manufacturers must continue to expend time, money, and effort in the area of production and quality control to maintain cGMP compliance. Discovery of problems with a product after approval may result in restrictions on a product, manufacturer, or holder of an approved BLA, including withdrawal of the product from the market. In addition, changes to the manufacturing process or facility generally require prior FDA approval before being implemented and other types of changes to the approved product, such as adding new indications and additional labeling claims, are also subject to further FDA review and approval.

#### *U.S. Patent Term Restoration and Marketing Exclusivity*

Depending upon the timing, duration, and specifics of the FDA approval of the use of our product candidates, some U.S. patents that may issue from our pending patent applications may be eligible for limited patent term extension under the Hatch-Waxman Amendments. The Hatch-Waxman Amendments permit a patent restoration term of up to five years as compensation for patent term lost during product development and the FDA regulatory review process. However, patent term restoration cannot extend the remaining term of a patent beyond a total of 14 years from the product's approval date. The patent term restoration period is generally one-half the time between the effective date of an IND and the submission date of a BLA plus the time between the submission date of a BLA and the approval of that application, except that the review period is reduced by any time during which the applicant failed to exercise due diligence. Only one patent applicable to an approved biological product is eligible for the extension and the application for the extension must be submitted prior to the expiration of the patent. In addition, only those claims covering the approved product, a method for using it, or a method for manufacturing it may be extended, and a patent can only be extended once and only for a single product. The USPTO, in consultation with the FDA, reviews and approves the application for any patent term extension or restoration. In the future, we may apply for restoration of patent term for one of the patents that may issue from our pending patent applications, if and as applicable, to add patent life beyond its current expiration date, depending on the expected length of the clinical trials and other factors involved in the filing of the relevant BLA. However, there can be no assurance that our pending patent applications will issue or that we will benefit from any patent term extension or favorable adjustments to the terms of any patents we may own or in-license in the future.

A biological product can obtain pediatric market exclusivity in the United States. Pediatric exclusivity, if granted, adds six months to existing exclusivity periods and may be granted based on the voluntary completion of a pediatric study in accordance with an FDA-issued "Written Request" for such a study.

The Biologics Price Competition and Innovation Act of 2009 created an abbreviated approval pathway for biological products shown to be similar to, or interchangeable with, an FDA-licensed reference biological product. This amendment to the PHS Act attempts to minimize duplicative testing. Biosimilarity, which requires that there be no clinically meaningful differences between the biological product and the reference product in terms of safety, purity, and potency, can be shown through analytical studies, animal studies and a clinical trial or trials. Interchangeability requires that a product is biosimilar to the reference product and the product must demonstrate that it can be expected to produce the same clinical results as the reference product and, for products administered multiple times, the biologic and the reference biologic may be switched after one has been previously administered without increasing safety risks or risks of diminished efficacy relative to exclusive use of the reference biologic.

A reference biological product is granted four- and 12-year exclusivity periods from the time of first licensure of the product. FDA will not accept an application for a biosimilar or interchangeable product based on the reference biological product until four years after the date of first licensure of the reference product, and FDA will not approve an application for a biosimilar or interchangeable product based on the reference biological product until twelve years after the date of first licensure of the reference product. "First licensure" typically means the initial date the particular product at issue was licensed in the United States. Date of first licensure does not include the date of licensure of (and a new period of exclusivity is not available for) a biological product if the licensure is for a supplement for the biological product or for a subsequent application by the same sponsor or manufacturer of the biological product (or licensor, predecessor in interest, or other related entity) for a change (not including a modification to the structure of the biological product) that results in a new indication, route of administration, dosing schedule, dosage form, delivery system, delivery device or strength, or for a modification to the structure of the biological product that does not result in a change in safety, purity, or potency. Therefore, one must determine whether a new product includes a modification to the structure of a previously licensed product that results in a change in safety, purity, or potency to assess whether the licensure of the new product is a first licensure that triggers its own period of exclusivity. Whether a subsequent application, if approved, warrants exclusivity as the "first licensure" of a biological product is determined on a case-by-case basis with data submitted by the sponsor.

#### *Regulation Outside of the United States*

In addition to regulations in the United States, we are subject to a variety of regulations in other jurisdictions governing clinical studies, commercial sales, and distribution of our products. Most countries outside of the United States require that clinical trial applications be submitted to and approved by the local regulatory authority for each clinical study. In the European Union, for example, authorization must be obtained from the national competent authority and the relevant ethics committee in each country in which we intend to conduct clinical trials, much like the FDA and IRB, respectively. Under the Clinical Trials Regulation (EU) No 536/2014, which replaced the Clinical Trials Directive 2001/20/EC on January 31, 2022, a single application is now made through the Clinical Trials Information System ("CTIS") for clinical trial authorization in up to 30 EU/ EEA countries at the same time and with a single set of documentation.

The assessment of applications for clinical trials is divided into two parts (Part I contains scientific and medicinal product documentation and Part II contains the national and patient-level documentation). Part I is assessed by a coordinated review by the competent authorities of all European Union Member States in which an application for authorization of a clinical trial has been submitted ("Member States concerned") of a draft report prepared by a Reporting Member State. Part II is assessed separately by each Member State concerned. The role of the relevant ethics committees in the assessment procedure will continue to be governed by the national law of the Member State concerned, however overall related timelines are defined by the Clinical Trials Regulation. The Clinical Trials Regulation also provides for simplified reporting procedures for clinical trial sponsors.

In addition, whether or not we obtain FDA approval for a product, we must obtain approval of a product by the comparable regulatory authorities of countries outside the United States before we can commence marketing of the product in those countries. The approval process and requirements vary from country to country, so the number and type of nonclinical, clinical, and manufacturing studies needed may differ, and the time may be longer or shorter than that required for FDA approval.

To obtain regulatory approval of our medicinal products under the European Union regulatory system, we are required to submit a marketing authorization application (“MAA”), to be assessed in either the centralized procedure or a national authorization procedure. The centralized procedure allows applicants to obtain a marketing authorization (“MA”) that is valid throughout the European Union, and the additional countries of the European Economic Area (Iceland, Liechtenstein and Norway) (“EEA”). It is compulsory for medicinal products manufactured using biotechnological processes, orphan medicinal products, advanced therapy medicinal products (gene-therapy, somatic cell-therapy or tissue-engineered medicines) and human products containing a new active substance which is not authorized in the European Union and which is intended for the treatment of HIV, AIDS, cancer, neurodegenerative disorders, auto-immune and other immune dysfunctions, viral diseases or diabetes. The centralized procedure is optional for any other products containing new active substances not authorized in the European Union or for products which constitute a significant therapeutic, scientific, or technical innovation or for which a centralized authorization is in the interests of patients at European Union level. When a company wishes to place on the market a medicinal product that is eligible for the centralized procedure, it sends an application directly to the European Medicines Agency (“EMA”), to be assessed by the Committee for Medicinal Products for Human Use (“CHMP”). The CHMP is responsible for conducting the assessment of whether a medicine meets the required quality, safety, and efficacy requirements, and whether the product has a positive risk/benefit profile. The procedure results in a European Commission decision, which is valid in all European Union Member States. The centralized procedure is as follows: full copies of the MAA are sent to a rapporteur and a co-rapporteur designated by the competent EMA scientific committee. They coordinate the EMA’s scientific assessment of the medicinal product and prepare draft reports. Once the draft reports are prepared (other experts might be called upon for this purpose), they are sent to the CHMP, whose comments or objections are communicated to the applicant. The rapporteur is therefore the privileged interlocutor of the applicant and continues to play this role, even after the MA has been granted.

The rapporteur and co-rapporteur then assess the applicant’s replies, submit them for discussion to the CHMP, and taking into account the conclusions of this debate, prepare a final assessment report. Once the evaluation is completed, the CHMP gives a favorable or unfavorable opinion as to whether to grant the MA.

When the opinion is favorable, it shall include the draft summary of product characteristics (“SmPC”), the package leaflet, and the texts proposed for the various packaging materials. The time limit for the evaluation procedure is 210 days (excluding clock stops, when additional written or oral information is to be provided by the applicant in response to questions asked by the CHMP). The EMA then has fifteen days to forward its opinion to the European Commission (“EC”), which will make a binding decision on the grant of an MA within 67 days of the receipt of the CHMP opinion.

There are two other procedures in the European Union for the grant of an MA in multiple European Union Member States, where a product does not fall within the mandatory scope of the centralized procedure. If a product has already been authorized for marketing in a European Union Member State, this national MA can be recognized in another European Union Member State through the mutual recognition procedure. If the product has not received a national MA in any European Union Member State at the time of application, it can be approved simultaneously in various Member States through the decentralized procedure.

The criteria for designating an “orphan medicinal product” in the European Union are similar in principle to those in the United States. In the European Union, under Article 3 of Regulation (EC) 141/2000, a medicinal product may be designated as an orphan medicinal product if it is intended for the diagnosis, prevention, or treatment of a life-threatening or chronically debilitating condition that affects no more than five in 10,000 persons in the European Union when the application is made. In addition, orphan designation can be granted if the product is intended for a life threatening, seriously debilitating, or serious and chronic condition in the European Union and, without incentives, it is unlikely that sales of the product in the European Union would be sufficient to justify the necessary investment in its development. Orphan designation is only available if there is no other satisfactory method approved in the European Union of diagnosing, preventing, or treating the applicable orphan condition, or if such a method exists, the proposed orphan medicinal product will be of significant benefit to patients affected by such condition, as defined in Regulation (EC) 847/2000.

Orphan designation provides opportunities for fee reductions, protocol assistance, and access to the centralized procedure. Fee reductions are limited to the first year after an MA is granted, except for small and medium enterprises. In addition, if a product which has an orphan designation subsequently receives a centralized MA for the indication for which it has such designation, the product is entitled to orphan market exclusivity, which means the EC may not approve any other application to market a similar medicinal product for the same indication for a period of ten years. A “similar medicinal product” is defined as a medicinal product containing a similar active substance or substances as contained in an authorized orphan medicinal product, and which is intended for the same therapeutic indication. The exclusivity period may be reduced to six years if, at the end of the fifth year, it is shown that the designation criteria are no longer met, including where it is shown that the product is sufficiently profitable not to justify maintenance of market exclusivity. Additionally, an MA may be granted to a similar medicinal product for the same indication at any time if:

- the second applicant can establish that its product, although similar to the authorized product, is safer, more effective or otherwise clinically superior;
- the MA holder of the authorized product consents to a second medicinal product application; or

- the MA holder of the authorized product cannot supply enough orphan medicinal product.

A pediatric investigation plan (“PIP”) in the European Union is aimed at ensuring that the necessary data are obtained to support the authorization of a medicine for children, through studies in children. All applications for MAs for new medicines have to include the results of studies as described in an agreed PIP, unless the medicine is exempt because of a deferral or waiver. This requirement also applies when an MA holder wants to add a new indication, pharmaceutical form, or route of administration for a medicine that is already authorized. Several rewards and incentives for the development of pediatric medicines for children are available in the European Union. Medicines authorized across the European Union with the results of studies from a PIP included in the product information may be eligible for an extension of their supplementary protection certificate (“SPC”) by six months (provided an application for such extension is made at the same time as filing the SPC application for the product, or no later than two years before the SPC expires). This is the case even when the studies’ results are negative. For orphan medicinal products, the incentive is an additional two years of market exclusivity. Scientific advice and protocol assistance at the EMA may be available free of charge or at reduced fees for questions relating to the development of pediatric medicines. Medicines developed specifically for children that are already authorized but are not protected by a patent or supplementary protection certificate are eligible for a pediatric-use MA (“PUMA”). If a PUMA is granted, the product will benefit from ten years of market protection as an incentive.

In March 2016, the EMA launched an initiative, the PRIority MEdicines (“PRIME”) scheme, to facilitate development of product candidates in indications, often rare, for which few or no therapies currently exist. The PRIME scheme is intended to encourage development of products in areas of unmet medical need and may support eligibility for accelerated assessment of products representing substantial innovation reviewed under the centralized procedure. Products from small- and medium-sized enterprises may qualify for earlier entry into the PRIME scheme than larger companies on the basis of compelling non-clinical data and tolerability data from initial clinical trials. Many benefits accrue to sponsors of product candidates with PRIME designation, including but not limited to, early and proactive regulatory dialogue with the EMA, frequent discussions on clinical trial designs and other development program elements, and potentially accelerated MAA assessment once a dossier has been submitted. Importantly, once a candidate medicine has been selected for the PRIME scheme, a dedicated contact and rapporteur from the CHMP or from the Committee for Advanced Therapies (“CAT”) are appointed early in the PRIME scheme facilitating increased understanding of the product at EMA’s committee level. An initial meeting with the CHMP/CAT rapporteur initiates these relationships and includes a team of multidisciplinary experts at the EMA to provide guidance on the overall development and regulatory strategies. PRIME eligibility does not change the standards for product approval, and there is no assurance that any such designation or eligibility will result in expedited review or approval.

All of the aforementioned European Union rules are generally applicable in the EEA.

The European Commission introduced legislative proposals in April 2023 that, if implemented, will replace the current regulatory framework in the EU for all medicines (including those for rare diseases and for children). In April 2024, the European Parliament adopted its position on the legislative proposals and, in June 2025, the Council of the European Union adopted its position. A common position on the text has been agreed upon on December 11, 2025, in the context of subsequent inter-institutional trilogue negotiations. The proposed revisions remain to be adopted, and are not expected to become applicable before 2028.

Following the end of the Brexit transition period on January 1, 2021 and the implementation of the Windsor Framework on January 1, 2025, the United Kingdom is not generally subject to EU laws in respect of medicines. The EU laws that have been transposed into UK law through secondary legislation remain applicable in the United Kingdom; however, new legislation such as the Clinical Trials Regulation is not applicable in the United Kingdom. As a result of the Northern Ireland Protocol, different rules applied in Northern Ireland than in England, Wales, and Scotland (together, “Great Britain”), which continued to follow the EU regulatory regime. However, on January 1, 2025, a new arrangement called the “Windsor Framework” came into effect and reintegrated Northern Ireland under the regulatory authority of the Medicines and Healthcare products Regulatory Agency (“MHRA”) with respect to medicinal products. The Windsor Framework removes EU licensing processes and EU labeling and serialization requirements in relation to Northern Ireland and introduces a UK-wide licensing process for medicines.

Since January 1, 2024, the MHRA may rely on the International Recognition Procedure ("IRP") when reviewing certain types of marketing authorization applications. Pursuant to the IRP, the MHRA will take into account the expertise and decision-making of trusted regulatory partners (e.g., the medicines regulatory authorities in Australia, Canada, Switzerland, Singapore, Japan, the United States and the EMA in the EU). The MHRA will conduct a targeted assessment of IRP applications but retains the authority to reject applications if the evidence provided is considered insufficiently robust. Applications should be decided within a maximum of 60 days if there are no major objections identified that cannot be resolved within such 60-day period and the approval from the trusted regulatory partner selected has been granted within the previous two years. If there are such major objections identified or such approval has not been granted within the previous two years, then the relevant timeframe for the MHRA decision is within 110 days. Applicants can submit initial marketing authorization applications to the IRP, but the procedure can also be used throughout the lifecycle of a product for post-authorization procedures including line extensions, variations and renewals. There is no pre-MA orphan designation in the United Kingdom. Instead, the MHRA reviews applications for orphan designation to the corresponding marketing authorization application. The criteria are essentially the same, but have been tailored for the United Kingdom market, i.e., the prevalence of the condition in the United Kingdom (rather than the European Union) must not be more than five in 10,000. Should an orphan designation be granted, the period of market exclusivity will be set from the date of first approval of the product in the United Kingdom.

### ***Other Healthcare Laws and Compliance Requirements***

#### *Other Healthcare Laws*

Biotechnology companies are subject to additional healthcare laws in the jurisdictions in which they conduct their business that may constrain the financial arrangements and relationships through which we research, as well as, in the future sell, market and distribute any products for which we obtain regulatory approval. Such laws include, without limitation, state and federal patient data privacy and security laws (including HIPAA and analogous state privacy laws), federal and state anti-kickback laws, physician-self referral laws, false claims and transparency laws (including federal and state price reporting, disclosure and transfer-of-value requirements) and regulations with respect to drug pricing and payments and other transfers of value made to physicians and other health care providers, and similar healthcare laws and regulations in the EU and other jurisdictions. Many of these laws are evolving and are subject to varying interpretations, and compliance is often dependent on the specific facts and circumstances of a company's activities. Violations of any of such laws or any other governmental regulations that apply may result in significant penalties, including, without limitation, administrative, civil and criminal penalties, damages, fines, disgorgement, the curtailment or restructuring of operations, integrity oversight and reporting obligations to resolve allegations of noncompliance, reputational harm, and exclusion from participation in federal and state healthcare programs or other government contracts and imprisonment.

#### *Coverage and Reimbursement*

Sales of any product depend, in part, on the extent to which such product will be covered by third-party payors, such as federal, state, and foreign government healthcare programs, commercial insurance and managed healthcare organizations, and the level of reimbursement for such product by third-party payors. Decisions regarding the extent of coverage and amount of reimbursement to be provided are made on a plan-by-plan basis, and coverage determinations and reimbursement levels may differ significantly among payors and geographic regions. These third-party payors are increasingly reducing coverage and reimbursement for medical products, drugs and services and may impose additional utilization management controls such as prior authorization, step therapy, quantity limits, or restrictive formularies. For products administered under the supervision of a physician, obtaining coverage and adequate reimbursement may be particularly difficult because of the higher prices often associated with such drugs and because reimbursement may be bundled with the procedure or site-of-care payment rather than paid separately. Additionally, separate reimbursement for the product itself or the treatment or procedure in which the product is used may not be available, which may impact physician utilization or adoption.

The U.S. government, state legislatures and foreign governments have also continued implementing cost-containment programs, including price controls, restrictions on coverage and reimbursement and requirements for substitution of generic (or biosimilar) products. In addition, recent legislative and regulatory initiatives have increased scrutiny of pricing practices and expanded manufacturer financial responsibility under government healthcare programs. Adoption of price controls and cost-containment measures, and adoption of more restrictive policies in jurisdictions with existing controls and measures, could further limit sales of any product. Decreases in third-party reimbursement for any product or a decision by a third-party payor not to cover a product could reduce physician usage and patient demand for the product and also have a material adverse effect on sales and our ability to successfully commercialize any approved products.

## *Healthcare Reform*

In the United States, the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act, each as amended, collectively known as the ACA, substantially changed the way healthcare is financed by both governmental and private insurers, and significantly affected the pharmaceutical industry. The ACA contained a number of provisions, including those governing enrollment in federal healthcare programs, reimbursement adjustments, drug pricing and discount obligations, and changes to fraud and abuse laws, among other provisions. Since its enactment, there have been judicial and Congressional challenges to certain aspects of the ACA. Other legislative changes have been proposed and adopted since the ACA was enacted, including aggregate reductions of Medicare payments to providers of 2% per fiscal year. These payment reductions, and similar measures that may be adopted in the future, could indirectly affect provider reimbursement, utilization and coverage decisions for pharmaceutical products.

More recently, the Inflation Reduction Act of 2022 (“IRA”), includes several provisions that impact the pharmaceutical industry, including provisions that reduce the out-of-pocket spending cap for Medicare Part D beneficiaries to \$2,000 starting in 2025; impose new manufacturer financial liability on certain drugs under Medicare Part D, allow the U.S. government to negotiate Medicare Part B and Part D price caps for certain high-cost drugs and biologics without generic or biosimilar competition; require companies to pay rebates to Medicare for drug prices that increase faster than inflation; and delay until January 1, 2032 the implementation of the HHS rebate rule that would have limited the fees that pharmacy benefit managers can charge. Further, under the IRA, orphan drugs are exempted from the Medicare drug price negotiation program, but only if the only approved indication(s) is for a rare disease or condition. The effects of the IRA on our business and the healthcare industry in general is not yet known.

In addition, there has been increasing legislative, regulatory and enforcement interest in the United States with respect to prescription drug pricing practices, including scrutiny of manufacturer pricing strategies, patient support programs, and relationships with pharmacy benefit managers and other intermediaries. Federal and state lawmakers have proposed and enacted legislation aimed at increasing pricing transparency, limiting certain fees and rebates, and reforming reimbursement methodologies, particularly within Medicare, Medicaid and other government healthcare programs.

Recent presidential administrations have also issued executive orders and supported regulatory initiatives intended to reduce prescription drug costs, including proposals related to most-favored-nation pricing, international reference pricing, and alternative payment and distribution models. In 2025, executive actions and proposed regulations were announced that could, if implemented, seek to impose pricing benchmarks tied to foreign reference prices or expand government leverage over drug reimbursement under Medicare and Medicaid. The scope, timing and ultimate impact of these initiatives remain uncertain and may be subject to legal challenge.

We expect that additional state and federal healthcare reform measures will be adopted in the future, any of which could impact the amounts that federal and state governments and other third-party payors will pay for healthcare products and services.

## *Data Privacy & Security*

Numerous state, federal and foreign laws govern the collection, dissemination, use, access to, confidentiality and security of personal information, including health-related information. As our operations and business grow, we may become subject to or affected by U.S. federal and state laws and regulations, including the Health Information Portability and Accountability Act of 1996, and its implementing regulations, as amended (“HIPAA”), that govern the collection, use, disclosure, and protection of health-related and other personal information. In California the California Consumer Protection Act (“CCPA”), which went into effect on January 1, 2020 and was amended effective January 1, 2023, established a new privacy framework for covered businesses by creating an expanded definition of personal information, establishing new data privacy rights for individuals residing in the State of California, imposing special rules on the collection of consumer data from minors, and creating a new and potentially severe statutory damages framework for violations of the CCPA and for businesses that fail to implement reasonable security procedures and practices to prevent data breaches. While clinical trial data and information governed by HIPAA are currently exempt from the current version of the CCPA, the law has broad application to other personal information. Many other states have passed or proposed similar privacy legislation and more states may do so in the future. State laws and laws from other countries outside of the United States also govern the privacy and security of health information in some circumstances. Many of these laws differ from each other in significant ways and they often are not preempted by HIPAA, thus complicating compliance efforts. For example, the EU’s General Data Protection Regulation (“EU GDPR”) and the EU GDPR as incorporated into the laws of the United Kingdom (“UK GDPR”, together with the EU GDPR, “GDPR”). The GDPR in the EU and the UK, which have been incorporated into their respective laws, impose stringent requirements on the processing of health and other sensitive data. These requirements encompass: (i) providing information to individuals regarding data processing activities; (ii) ensuring a legal basis or condition applies to the processing of personal information and, where applicable, obtaining consent from individuals to whom the data processing relates; (iii) responding to data subject requests; (iv) imposing requirements to notify the competent national data protection authorities and data subjects of personal information breaches; (v) implementing safeguards in connection with the security and confidentiality of the personal information; (vi) accountability requirements; and (vii) taking certain measures when engaging third-party processors. Failure to comply with these laws, where applicable, can result in the imposition of significant civil and/or criminal penalties and private litigation. Privacy and security laws, regulations, and other obligations are constantly evolving, may conflict with each other to complicate compliance efforts, and can result in investigations, proceedings, or actions that lead to significant civil and/or criminal penalties and restrictions on data processing.

## **Employees and Human Capital Resources**

As of December 31, 2025, we had 119 full-time employees, of which 39 have M.D. or Ph.D. degrees. Within our workforce, 98 employees are engaged in research and development and 21 are engaged in business development, finance, legal, and general management and administration. None of our employees are represented by labor unions or covered by collective bargaining agreements. We consider our relationship with our employees to be good.

Our human capital resources objectives include, as applicable, identifying, recruiting, retaining, incentivizing and integrating our existing and new employees, advisors and consultants. The principal purposes of our equity incentive plans are to attract, retain and reward personnel through the granting of equity-based compensation awards in order to increase shareholder value and the success of our company by motivating such individuals to perform to the best of their abilities and achieve our objectives.

## **Information Available on the Internet**

Our Internet website address is <https://metagenomi.co>. The information contained on, or that can be accessed through, our website is not a part of or incorporated by reference in this Annual Report on Form 10-K. We have included our website address in this in this Annual Report on Form 10-K solely as an inactive textual reference. We will make available, free of charge, through our website, our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and amendments to those reports filed or furnished pursuant to Sections 13(a) and 15(d) of the Exchange Act. We will make these reports available through the “Investors” section of our website as soon as reasonably practicable after we electronically file such reports with, or furnish such reports to, the Securities and Exchange Commission, or SEC. We will also make available, free of charge on our website, the reports filed with the SEC by our executive officers, directors and 10% stockholders pursuant to Section 16 under the Exchange Act as soon as reasonably practicable after copies of those filings are provided to us by those persons. You can review our electronically filed reports and other information that we file with the SEC on the SEC’s website at <http://www.sec.gov>.

Investors and others should note that we announce material information to our investors using one or more of the following: SEC filings, press releases, public conference calls and webcasts and our corporate website, including without limitation the “Investors-News & Events” sections of our website. We use these channels, as well as social media channels such as LinkedIn and X (formerly Twitter), to communicate with the public about our company, our business, our approved drugs and drug candidates and other matters. It is possible that the information we post on our corporate website or other social media could be deemed to be material information. Therefore, we encourage investors, the media, and others interested in our company to review the information we post on the “Investors-News & Events” section of our corporate website and on our social media channels. The contents of our corporate website and social media channels are not, however, a part of this Annual Report on Form 10-K.

## Facilities

Our corporate headquarters is located in Emeryville, California, where we sublease and occupy approximately 75,662 square feet of combined office, research and laboratory space at 5959 Horton Street, 7th Floor, Emeryville, California 94608. The current term of our sublease expires in March 2031. The company also leases approximately 23,155 square feet of office space at 1485 Park Avenue, Emeryville, California 94608 and approximately 23,851 square feet of laboratory and office space at 1545 Park Avenue, Emeryville, California 94608.

We believe that our facilities are adequate for our current needs and for the foreseeable future. To meet the future needs of our business, we may lease additional or alternate space. We believe that suitable additional or substitute space at commercially reasonable terms will be available as needed to accommodate any future expansion of our operations.

## Legal Proceedings

From time to time, we may become involved in legal proceedings arising from the ordinary course of business. We record a liability for such matters when it is probable that future losses will be incurred and that such losses can be reasonably estimated. Significant judgment by us is required to determine both probability and the estimated amount. Except as described below, our management is currently not aware of any legal matters that could have a material adverse effect on our financial position, results of operations or cash flows.

On September 26, 2024, a class action complaint was filed in the U.S. District Court for the Northern District of California against our company and certain of our officers and certain of our current and former directors, captioned *Vreeland v. Metagenomi Inc. et al.*, No. 5:24-cv-06765 (the “Securities Action”). On February 10, 2025, the court appointed Mingxi Bi as lead plaintiff. On April 4, 2025, the plaintiffs filed an amended complaint. The operative complaint in the Securities Action alleges violations of Section 11 of the Securities Act against all defendants and control person violations of Section 15 against the individuals. The Securities Action alleges that the defendants made misleading statements and omitted to disclose material information concerning our collaboration with Moderna in the our registration statement and final prospectus materials filed in January 2024 and February 2024. The Securities Action seeks, among other things, compensatory damages as well as costs and expenses, including attorneys’ fees and expert fees. On May 16, 2025, all defendants filed a motion to dismiss the claims of the Securities Action, which is currently pending. We are currently unable to predict the outcome of this lawsuit and therefore cannot determine the likelihood of loss, if any, nor estimate a range of possible loss. We intend to defend vigorously against this litigation. See Note 8, “Commitments and Contingencies – Legal contingencies” in the accompanying “Notes to Financial Statements” in Part II, Item 8 of this Annual Report on Form 10-K for more information.

## Corporate Information

We commenced our current operations and converted to a Delaware limited liability company in September 2018. We were originally founded as Metagenomi.co, a Delaware corporation, in September 2016. On January 24, 2024, we completed a series of transactions, which we refer to collectively as the Reorganization. As a result of the Reorganization, Metagenomi Technologies, LLC merged with and into its wholly-owned subsidiary, Metagenomi, Inc., a Delaware corporation, with Metagenomi, Inc. continuing as the surviving corporation. In connection with the Reorganization, (i) all of the outstanding common unitholders of Metagenomi Technologies, LLC received shares of common stock of Metagenomi, Inc., (ii) all of the outstanding preferred unitholders of Metagenomi Technologies, LLC received shares of preferred stock of Metagenomi, Inc. and (iii) certain holders of profits interest units in Metagenomi Technologies, LLC received shares of common stock and restricted common stock in Metagenomi, Inc. as determined by the applicable provisions of the Metagenomi Technologies, LLC operating agreement in effect immediately prior to the Reorganization. Immediately prior to the completion of the IPO, all outstanding shares of preferred stock of Metagenomi, Inc. were converted into shares of common stock. In January 2026, Metagenomi, Inc. changed its name to Metagenomi Therapeutics, Inc.

Metagenomi Therapeutics, Inc. is the registrant for purposes of this Annual Report on Form 10-K. Our financial statements for reporting periods prior to the name change were reported from Metagenomi, Inc. Our financial statements for reporting periods prior to the Reorganization were reported from Metagenomi Technologies, LLC.

Our principal executive offices are located at 5959 Horton Street, 7th Floor, Emeryville, California 94608, and our telephone number is (510) 871-4880. Our website address is <https://www.metagenomi.co>. The information contained in or accessible from our website is not incorporated into this filing, and you should not consider it part of this filing. We have included our website address in this filing solely as an inactive textual reference.

## Item 1A. Risk Factors.

*Investing in our common stock involves a high degree of risk. You should carefully consider the risks and uncertainties described below together with all of the other information contained in this Annual Report on Form 10-K, including our financial statements and related notes appearing at the end of this Annual Report on Form 10-K, before deciding to invest in our common stock. If any of the events or developments described below were to occur, our business, prospects, operating results and financial condition could suffer materially, the trading price of our common stock could decline and you could lose all or part of your investment. The risks and uncertainties described below are not the only ones we face. Additional risks and uncertainties not presently known to us or that we currently believe to be immaterial may also adversely affect our business.*

### **Risks Related to Financial Position and Need for Capital**

***We have incurred significant losses since inception. We expect to incur losses for the foreseeable future and may never achieve or maintain profitability.***

Since inception, we have incurred significant operating losses. Our net loss was \$87.9 million and \$78.1 million for the years ended December 31, 2025 and 2024, respectively. As of December 31, 2025, we had an accumulated deficit of \$310.9 million. We have financed our operations primarily through issuing redeemable convertible preferred units and convertible promissory notes, entering into collaboration agreements, and through the IPO proceeds. Substantially all of our losses have resulted from expenses incurred in connection with our research and development and from general and administrative costs associated with our operations. We expect to continue to incur significant expenses and increasing operating losses for the foreseeable future. The net losses we incur may fluctuate significantly from quarter to quarter. We anticipate that our expenses will increase substantially if and as we:

- advance our current research activities and further develop our platform;
- continue preclinical development and initiate clinical trials for any product candidates we may identify;
- seek regulatory approval for any product candidates for which we successfully complete clinical trials;
- establish our manufacturing capabilities, including internal manufacturing facilities and contracting with other vendors;
- ultimately, commercialize our future product candidates requiring significant marketing, sales, and distribution infrastructure expenses;
- hire additional research and development, clinical, commercial, general and administration personnel;
- develop, maintain, expand, protect, and enforce our intellectual property portfolio;
- acquire or in-license product candidates, intellectual property and technologies;
- confirm, maintain or obtain freedom to operate for any of our owned or licensed technologies and product candidates;
- establish and maintain collaborations;
- add operational, financial and management information systems and personnel; or
- incur additional legal, audit, accounting, compliance, insurance, investor relations and other expenses related to operating as a public company that we did not incur as a private company.

As a result, we will need substantial additional funding to support our continuing operations and pursue our growth strategy. In March 2025, we filed a Shelf Registration Statement on Form S-3 (File No. 333-285867) with the U.S. Securities and Exchange Commission, which was declared effective on March 25, 2025, and permits us to sell from time to time up to \$250.0 million of shares of our common stock and other securities in one or more offerings in amounts, at prices, and on the terms that we will determine at the time of any such offering.

In connection with the Shelf Registration Statement, we entered into an Open Market Sale Agreement<sup>SM</sup> (the “ATM Sales Agreement”) with Jefferies LLC (“Jefferies”) on March 17, 2025, pursuant to which we may issue and sell, from time to time and at our sole discretion, shares of our common stock, through Jefferies as sales agent, by any method permitted by law deemed to be an “at the market” offering as defined in Rule 415(a)(4) promulgated under the Securities Act, having an aggregate offering price of up to \$75.0 million. As of December 31, 2025, we have not sold any shares of our common stock pursuant to the ATM Sales Agreement.

Until such time as we can generate significant revenue from product sales, if ever, we expect to finance our operations through the sale of equity, debt financings, or other capital sources, which may include collaborations with other companies or other strategic transactions. We may be unable to raise additional funds or enter into such other agreements or arrangements when needed on favorable terms, or at all. If we fail to raise capital or enter into such agreements as and when needed, we may have to significantly delay, reduce or eliminate the development and commercialization of our platform or delay our pursuit of potential in-licenses or acquisitions.

We have not initiated clinical development of any potential product candidate and expect that it will be many years, if ever, before we have a product candidate ready for commercialization. To become and remain profitable, we must develop and, either directly or through collaborators, eventually commercialize a therapy or therapies with market potential. This will require us to be successful in a range of challenging activities, including identifying product candidates, completing preclinical studies and clinical trials of product candidates, obtaining regulatory approval for these product candidates, manufacturing, marketing and selling those therapies for which we may obtain regulatory approval and satisfying any post-marketing requirements. We may never succeed in these activities and, even if we do, may never generate revenues that are significant or large enough to achieve profitability.

Because of the numerous risks and uncertainties associated with developing our technology and any potential product candidates, we are unable to predict the extent of any future losses or when we will become profitable, if at all. If we do achieve profitability, we may not be able to sustain or increase profitability on a quarterly or annual basis. Our failure to become and remain profitable would decrease the value of our company and could impair our ability to raise capital, maintain our research and development efforts, expand our business or continue our operations. A decline in the value of our company could also cause you to lose all or part of your investment.

***We have never generated revenue from product sales and may never become profitable.***

Our ability to generate revenue from product sales and achieve profitability depends on our ability, alone or with collaborative partners, to successfully complete the development of, and obtain the regulatory approvals necessary to commercialize, product candidates we may identify for development. We may not generate revenues from product sales for many years, if ever. Our ability to generate future revenues from product sales depends heavily on our or our collaborators' ability to successfully:

- identify product candidates and successfully complete research development of any product candidates we may identify;
- seek and obtain regulatory approvals for any product candidates for which we successfully complete clinical trials;
- launch and commercialize any product candidates for which we may obtain regulatory approval by establishing a sales force, marketing and distribution infrastructure, or alternatively, collaborating with a commercialization partner;
- qualify for adequate coverage and reimbursement by government and third-party payors for any product candidates for which we may obtain regulatory approval;
- establish and maintain supply and manufacturing relationships with third parties that can provide adequate, in both amount and quality, products and services to support clinical development and the market demand for any product candidates for which we obtain regulatory approval;
- develop, maintain and enhance a sustainable, scalable, reproducible and transferable manufacturing process for the product candidates we may develop;
- address competing technological and market developments;
- negotiate favorable terms in any collaboration, licensing or other arrangements into which we may enter and performing our obligations in such collaborations;
- receive market acceptance by physicians, patients, healthcare payors, and others in the medical community;
- maintain, protect, enforce, defend and expand our portfolio of intellectual property and other proprietary rights, including patents, trade secrets and know-how;
- defend against third-party intellectual property claims of infringement, misappropriation or other violation; and
- attract, hire and retain qualified personnel.

Our expenses could increase beyond expectations if we are required by the U.S. Food and Drug Administration (the “FDA”) or other regulatory authorities to perform preclinical studies or clinical trials in addition to those that we currently anticipate. Even if one or more of the product candidates we may develop are approved for commercial sale, we anticipate incurring significant costs associated with commercializing any approved product candidate. Additionally, such products may become subject to unfavorable pricing regulations, third-party reimbursement practices or healthcare reform initiatives. Even if we are able to generate revenues from the sale of any approved product candidates, we may not become profitable and may need to obtain additional funding to continue operations.

***Our operations will require substantial additional funding. If we are unable to raise additional capital when needed on acceptable terms, or at all, we may be forced to delay, reduce, or terminate certain of our research and product development programs, future commercialization efforts or other operations.***

Developing genome editing products, including conducting preclinical studies and clinical trials, is a very time-consuming, expensive and uncertain process that takes years to complete. Our operations have consumed substantial amounts of cash since inception, and we expect our expenses to increase in connection with our ongoing activities, particularly as we identify, continue the research and development of, initiate and conduct clinical trials of, and seek regulatory approval for, any product candidates we may identify. In addition, if we obtain regulatory approval for any product candidates we may identify, we expect to incur significant commercialization expenses related to product sales, marketing, manufacturing, and distribution to the extent that such sales, marketing, manufacturing, and distribution are not the responsibility of a collaborator. Other unanticipated costs may also arise. Furthermore, we expect to continue incurring additional costs associated with operating as a public company. Accordingly, we will need to obtain substantial additional funding in connection with our continuing operations. If we are unable to raise capital when needed or on acceptable terms, we would be forced to delay, reduce, or eliminate our research and product development programs, future commercialization efforts or other operations.

As of December 31, 2025, our cash, cash equivalents and available-for-sale marketable securities were \$160.8 million. We expect that our existing cash, cash equivalents, and available-for-sale marketable securities, will enable us to fund our operating expenses and capital expenditure requirements for at least the next 12 months from the date of issuance of this Annual Report on Form 10-K. However, our operating plan may change as a result of factors currently unknown to us, and we may need to seek funding sooner than planned. Our future capital requirements will depend on many factors, including:

- the timing and progress of research and development, preclinical and clinical development activities;
- the number, scope and duration of clinical trials required for regulatory approval of our future product candidates;
- the costs, timing, and outcome of regulatory review of any of our future product candidates;
- the costs of manufacturing clinical and commercial supplies of our future product candidates;
- the costs and timing of future commercialization activities, including product manufacturing, marketing, sales and distribution, for any of our future product candidates for which we receive regulatory approval;
- the costs of preparing, filing and prosecuting our patent applications, maintaining and enforcing our patents and other intellectual property rights and defending intellectual property-related claims;
- our ability to maintain existing, and establish new, strategic collaborations, licensing or other arrangements, and the financial terms of any such agreements, including the timing and amount of any future milestone, royalty or other payments due under any such agreement;
- our ability to establish and maintain collaboration and license agreements on favorable terms, if at all;
- the extent to which we acquire or in-license other product candidates and technologies;
- any product liability or other lawsuits related to our future product candidates;
- our implementation of various computerized informational systems and efforts to enhance operational systems;
- expenses incurred to attract, hire and retain skilled personnel;
- the costs of operating as a public company;
- our ability to establish a commercially viable pricing structure and obtain approval for coverage and adequate reimbursement from third-party and government payers;
- the extent to which we acquire or invest in businesses, products, and technologies;
- the effect of competing technological and market developments; and

- pandemics, epidemics or outbreaks of a contagious illness, economic uncertainty, tariffs and other trade disputes and geopolitical tensions, which may exacerbate the magnitude of the factors discussed above.

Identifying potential product candidates and conducting preclinical testing and clinical trials is a time-consuming, expensive, and uncertain process that takes years to complete, and we may never generate the necessary data or results required to obtain regulatory approval and achieve product sales. In addition, our future product candidates, if approved, may not achieve commercial success. Our commercial revenues, if any, will be derived from sales of products that we do not expect to be commercially available for many years, if at all. Accordingly, we will need to continue to rely on additional financing to achieve our business objectives.

Adequate additional financing may not be available to us on acceptable terms, or at all. In addition, we may seek additional capital due to favorable market conditions or strategic considerations even if we believe we have sufficient funds for our current or future operating plans. To the extent that we raise additional capital through the sale of equity or convertible debt securities, your ownership interest will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect your rights as a common stockholder. Debt financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures, declaring dividends, and possibly other restrictions.

Any additional fundraising efforts may divert our management from their day-to-day activities, which may adversely affect our ability to develop and commercialize our product candidates. We have no committed sources of additional capital and, if we are unable to raise additional capital in sufficient amounts or on terms acceptable to us, we may have to significantly delay, scale back or discontinue the development or commercialization of our future product candidates or other research and development initiatives. Without sufficient funding, our license agreements, such as our Non-Exclusive License Agreement with Acuitas Therapeutics, Inc., and any future collaboration agreements may also be terminated if we are unable to meet the payment or other obligations under such agreements.

If we are unable to raise additional funds through equity or debt financings when needed, we may be required to delay, limit, reduce, or terminate our product development or future commercialization efforts or grant rights to develop and market product candidates that we would otherwise prefer to develop and market ourselves. Additionally, if we raise funds through additional collaborations, strategic alliances, or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, future revenue streams, research programs, or product candidates we develop, or we may have to grant licenses on terms that may not be favorable to us and/or that may reduce the value of our common stock.

***Our short operating history may make it difficult for you to evaluate the success of our business to date and to assess our future viability.***

We are an early-stage company. We commenced our operations in September 2018. Our operations to date have been limited to organizing and staffing our company, business planning, raising capital, and research and development activities such as acquiring and developing our platform and technology and identifying and beginning to advance preclinical testing of potential product candidates. All of our programs are still in the research or lead optimization stage of development and their risk of failure is high. We have not yet demonstrated an ability to initiate or successfully complete any clinical trials, including large-scale, pivotal clinical trials, obtain regulatory approvals, manufacture a commercial-scale therapy, arrange for a third party to do so on our behalf or conduct sales and marketing activities necessary for successful commercialization.

Our limited operating history, particularly in light of the rapidly evolving genome editing field, may make it difficult to evaluate our technology and industry and predict our future performance. Our short history as an operating company makes any assessment of our future success or viability subject to significant uncertainty. We will encounter risks and difficulties frequently experienced by very early stage companies in rapidly evolving fields. If we do not address these risks successfully, our business will suffer.

In addition, as a new business that is rapidly growing, we may encounter other unforeseen expenses, difficulties, complications, and delays in our product development. We will need to transition from a company with a research focus to a company capable of conducting clinical trials and ultimately supporting commercial activities if any of our future product candidates are approved. We may not be successful in such a transition.

***Our future ability to utilize our net operating loss carryforwards and certain other tax attributes may be limited.***

Since our inception, we have incurred losses and we may never achieve profitability. As of December 31, 2025, we had U.S. federal net operating loss carryforwards of \$175.3 million (which are not subject to expiration) and state net operating loss carryforwards of \$213.5 million (which begin to expire in various amounts in 2037), \$3.3 million of research credit carryforwards for federal income tax purposes (which begin to expire in 2045) and \$6.1 million of research credit carryforwards for state income tax purposes (which do not expire and can be carried forward indefinitely). To the extent that we continue to generate taxable losses, under current law, our unused U.S. federal net operating losses (“NOLs”) may be carried forward to offset a portion of future taxable income, if any. Additionally, we continue to generate business tax credits, including research and development tax credits, which generally may be carried forward to offset a portion of future taxable income, if any, subject to expiration of such credit carryforwards. Under Sections 382 and 383 of the Internal Revenue Code of 1986, as amended (the “Code”), if a corporation undergoes an “ownership change,” generally defined as one or more shareholders or groups of shareholders who own at least 5 percent of the corporation’s equity increasing their equity ownership in the aggregate by more than 50 percentage points (by value) over a three-year period, the corporation’s ability to use its pre-change NOLs and other pre-change tax attributes (such as research and development tax credits) to offset its post-change income or taxes may be limited. Similar rules may apply under state tax laws. We may experience ownership changes in the future, some of which are outside of our control. As a result, if we earn net taxable income, our ability to use our pre-change NOLs or other pre-change tax attributes to offset U.S. federal taxable income may be subject to limitations, which could potentially result in increased future tax liability to us. Additional limitations on our ability to utilize our NOLs to offset future taxable income may arise as a result of our corporate structure whereby NOLs generated by our subsidiary may not be available to offset taxable income earned by our subsidiary. There is a risk that due to changes under the tax law, regulatory changes or other unforeseen reasons, our existing NOLs or business tax credits could expire or otherwise be unavailable to offset future income tax liabilities. At the state level, there may also be periods during which the use of NOLs or business tax credits is suspended or otherwise limited, which could accelerate or permanently increase state taxes owed. For these reasons, we may not be able to realize a tax benefit from the use of our NOLs or tax credits, even if we attain profitability.

***Changes in tax laws or in their implementation or interpretation may adversely affect our business and financial condition.***

The rules dealing with U.S. federal, state and local income taxation are constantly under review by persons involved in the legislative process and by the Internal Revenue Service and the U.S. Treasury Department. Changes to tax laws (which changes may have retroactive application) could adversely affect our business and our financial condition. In recent years, many such changes have been made, including the One Big Beautiful Bill Act (the “OBBBA”), which was signed into law on July 4, 2025, and made significant changes to U.S. federal tax law. Changes to tax laws (which changes may have retroactive application) could adversely affect our business and our financial condition. For example, under Section 174 of the IRC, in taxable years beginning after December 31, 2021, expenses that are incurred for research and development performed outside the U.S. will be capitalized and amortized, which may have an adverse effect on our cash flow. The OBBBA provides that for taxable years beginning after December 31, 2024, expenses that are incurred for research and development performed in the U.S. may, at the taxpayer’s election, be immediately deducted or capitalized and amortized. In addition, the OBBBA provides that for taxable years beginning after December 31, 2021 and before January 1, 2025, certain eligible taxpayers generally may elect to retroactively deduct expenses for research and development performed in the U.S. in such taxable years generally may elect to accelerate and deduct the remaining unamortized amounts of such research and development expenses (i) in the first taxable year beginning after December 31, 2024, or (ii) ratably over the two-taxable year period beginning with the first taxable year beginning after December 31, 2024. In recent years, many such changes have been made and changes are likely to continue to occur in the future. For example, under Section 174 of the Code, currently, in taxable years beginning after December 31, 2021, expenses that are incurred for research and development in the U.S. are capitalized and amortized, which may have an adverse effect on our cash flow. More recently, however, there have been proposals to retroactively reinstate deductibility under Section 174 of the Code. We cannot predict whether, when, in what form or with what effective dates, tax laws, regulations and rulings may be enacted, promulgated or decided or whether they could increase our tax liability or require changes in the manner in which we operate in order to minimize increases in our tax liability.

## Risks Related to Business, Technology, and Industry

***We are very early in our development efforts, and we have not yet initiated clinical development of any product candidate. As a result, we expect it will be many years before we commercialize any product candidate, if ever. If we are unable to advance our future product candidates into and through clinical trials, obtain regulatory approval and ultimately commercialize our product candidates or experience significant delays in doing so, our business will be materially harmed.***

We are very early in our development efforts and have focused our research and development efforts to date on research efforts including preclinical studies. Currently, all of our programs are still in the research, lead optimization, or IND-enabling stage of development. Our ability to generate product revenues, which we do not expect will occur for many years, if ever, will depend heavily on the successful development, regulatory approval and eventual commercialization of our future product candidates, which may never occur. We have not yet generated revenue from product sales, and we may never be able to develop or commercialize a marketable product.

Commencing clinical trials in the United States is subject to acceptance by the FDA of an IND application and finalizing the trial design based on discussions with the FDA. In the event that the FDA requires us to complete additional preclinical studies or we are required to satisfy other FDA requests prior to commencing clinical trials, the start of our first clinical trials may be delayed or we may be unsuccessful obtaining clearance to proceed into clinical development. Even after we receive and incorporate guidance from the FDA, the FDA could disagree that we have satisfied their requirements to commence any clinical trial or change their position on the acceptability of our trial design or the clinical endpoints selected, which may require us to complete additional preclinical studies or clinical trials, delay the enrollment of our clinical trials, abandon our clinical development plans or meet stricter approval conditions than we currently expect. For example, emerging data relating to our hemophilia A development candidate, MGX-001, from our NHP studies using our bioengineered B-domain deleted FVIII construct has, to date, demonstrated both high activity as well as high variability related to FVIII. While we have not received all of the data from the studies, we have commenced additional studies and may consider alternatives to this bioengineered FVIII construct. While we are planning to achieve our IND submission timelines, the need to conduct additional studies and/or consider alternatives to bioengineered FVIII, the risks described above relating to the FDA submission process, coupled with the uncertain regulatory environment in the United States, could delay our current expected IND submission timelines.

There are equivalent processes and risks applicable to clinical trial applications in other countries, including countries in the European Union. In addition, clinical trials conducted in one country may not be accepted by regulatory authorities in other countries, and regulatory approval in one country does not guarantee regulatory approval in any other country. We may conduct one or more of our clinical trials with one or more trial sites that are located outside the United States. Although the FDA may accept data from clinical trials conducted outside the United States, acceptance of these data is subject to conditions imposed by the FDA, and there can be no assurance that the FDA will accept data from trials conducted outside of the United States. If the FDA does not accept the data from any trial that we conduct outside the United States, it would likely result in the need for additional trials, which would be costly and time-consuming and could delay or permanently halt our development of the applicable product candidates.

Commercialization of any product candidates we may develop will require preclinical and clinical development; regulatory approval in multiple jurisdictions; manufacturing supply, capacity and expertise; a commercial organization; and significant marketing efforts. The success of product candidates we may identify and develop will depend on many factors, including the following:

- timely and successful completion of preclinical studies, including toxicology studies, biodistribution studies and minimally efficacious dose studies in animals, where applicable;
- effective INDs or comparable foreign applications that allow commencement of our planned clinical trials or future clinical trials for any product candidates we may develop;
- successful enrollment and completion of clinical trials, including under the FDA's current Good Clinical Practices ("GCPs"), current Good Laboratory Practices ("GLPs"), and any additional regulatory requirements from foreign regulatory authorities;
- positive results from our future clinical trials that support a finding of safety and effectiveness and an acceptable risk-benefit profile in the intended populations;
- receipt of regulatory approvals from applicable regulatory authorities;
- establishment of arrangements through our own facilities or with third-party manufacturers for clinical supply and, where applicable, commercial manufacturing capabilities;
- establishment, maintenance, defense and enforcement of patent, trademark, trade secret and other intellectual property protection or regulatory exclusivity for any product candidates we may develop;
- commercial launch of any product candidates we may develop, if approved, whether alone or in collaboration with others;

- acceptance of the benefits and use of our product candidates we may develop, including method of administration, if and when approved, by patients, the medical community and third-party payors;
- effective competition with other therapies;
- maintenance of a continued acceptable safety, tolerability and efficacy profile of any product candidates we may develop following approval; and
- establishment and maintenance of healthcare coverage and adequate reimbursement by payors.

If we do not succeed in one or more of these factors in a timely manner or at all, we could experience significant delays or an inability to successfully commercialize any product candidates we may develop, which would materially harm our business. If we are unable to advance our product candidates to clinical development, obtain regulatory approval and ultimately commercialize our product candidates, or experience significant delays in doing so, our business will be materially harmed.

***We are subject to additional development challenges and risks due to the novel nature of our genome editing technology.***

Because our *in vivo* technology potentially involves genome editing across multiple cell and tissue types, we are subject to many of the challenges and risks that other genome editing therapeutics and gene therapies face, including:

- regulatory guidance regarding the requirements governing gene and genome editing therapy product candidates have changed and may continue to change in the future;
- to date, only a limited number of products that involve *in vivo* gene transfer have been approved globally;
- improper modulation of a gene sequence, including unintended editing events or insertion of a sequence into certain locations in a patient’s chromosome, could lead to cancer, other aberrantly functioning cells or other diseases, including death;
- corrective expression of a missing protein in patients’ cells could result in the protein being recognized as foreign, and lead to a sustained immunological reaction against the expressed protein or expressing cells, which could be severe or life-threatening; and
- regulatory agencies may require extended follow-up observation periods of patients who receive treatment using genome editing product candidates including, for example, the FDA’s recommended 15-year follow-up observation period for these patients, and we will need to adopt such observation periods for product candidates we develop if required by the relevant regulatory agency, which could vary by country or region.

Furthermore, our technology has potential application for *ex vivo* immune cell editing strategies. Because *ex vivo* application of our technology potentially involves editing human cells and then delivering modified cells to patients, we may be subject to many of the challenges and risks that engineered cell therapies face. For example, clinical trials using engineered cell-based gene therapies may require unique products to be created for each patient and such individualistic manufacturing may be both inefficient and cost-prohibitive.

***Clinical drug development involves a lengthy and expensive process, with an uncertain outcome. Because genome editing is relatively novel and the regulatory landscape that will govern our potential product candidates is uncertain and may change, we cannot predict the time and cost of obtaining regulatory approval, if we receive it at all, for our potential product candidates.***

The time required to obtain approval for any of our potential product candidates from the FDA, the European Commission (“EC”) or other comparable foreign regulatory authorities is unpredictable but typically takes many years following the commencement of clinical trials and depends upon numerous factors, including the substantial discretion of regulatory authorities. For more information on the regulatory approval process, see “Business—Government Regulation” in this Annual Report on Form 10-K. The U.S. Supreme Court’s July 2024 decision to overturn prior established case law giving deference to regulatory agencies’ interpretations of ambiguous statutory language has introduced uncertainty regarding the extent to which FDA’s regulations, policies and decisions may become subject to increasing legal challenges, delays, and/or changes. Clinical trials may fail to demonstrate that our product candidates are safe for humans and effective for indicated uses. Even if initial clinical trials in any of any product candidates we may develop are successful, such product candidates may fail to show the desired safety and efficacy in later stages of clinical development despite having successfully advanced through preclinical studies and initial clinical trials. There is a high failure rate for drugs and biologics proceeding through clinical trials. A number of companies in the pharmaceutical and biotechnology industries have suffered significant setbacks in later stage clinical trials even after achieving promising results in earlier stage clinical trials.

Because genome editing is relatively novel, the regulatory requirements that will govern any novel genome editing product candidates we develop may continue to evolve. Only one genome editing therapy, CASGEVY, has received marketing authorization from the FDA and EC to date and, within the broader genetic therapy field, a limited number of gene therapy products have received marketing authorization from the FDA and the EC. Even with respect to more established products that fit into the categories of gene therapies or cell therapies, the regulatory landscape is still developing. Regulatory requirements governing gene therapy products and cell therapy products have changed frequently and may continue to change in the future. For example, in January 2024, the FDA published a final guidance document providing recommendations for human genome editing gene therapy products, and in September 2025, the FDA issued several new draft guidance documents on cell and gene therapy products. Moreover, there is substantial, and sometimes uncoordinated, overlap in those responsible for regulation of existing gene therapy products and cell therapy products. For example, in the United States, the FDA has established the Office of Therapeutic Products (“OTP”) within its Center for Biologics Evaluation and Research (“CBER”) to consolidate the review of gene therapy and related products, and the Cellular, Tissue and Gene Therapies Advisory Committee to advise CBER on its review. Gene therapy clinical trials may also be subject to review and oversight by an institutional biosafety committee (“IBC”), a local institutional committee that reviews and oversees certain basic and clinical research conducted at the institution participating in the clinical trial. Although the FDA decides whether individual gene therapy protocols may proceed, the review process and determinations of other reviewing bodies, such as an IBC or institutional review board (“IRB”), can impede or delay the initiation of a clinical trial, even if the FDA has reviewed the trial and approved its initiation. For example, more recently, some genome editing companies have seen significant delays in receiving FDA authorization to allow the initiation of their clinical trials, and has suspended ongoing trials, due to the FDA’s placement of clinical holds on their INDs.

The same applies in the European Union. The European Medicines Agency’s (“EMA”) Committee for Advanced Therapies (“CAT”) is responsible for assessing the quality, safety and efficacy of advanced-therapy medicinal products (i.e. gene therapy, somatic-cell therapy or tissue-engineered medicines). The role of the CAT is to prepare a draft opinion on an application for marketing authorization for a gene therapy medicinal candidate that is submitted to the Committee for Medicinal Products for Human Use (“CHMP”) before the CHMP adopts its opinion which is submitted to the EC for the final decision on whether to grant a marketing authorization or not. In the European Union, the EMA publishes guidelines for the development and evaluation of gene therapy medicinal products to assist in preparing marketing authorization applications, however these are continually under review. The EMA may issue new guidelines concerning the development and marketing authorization for gene therapy medicinal products and require that we comply with these new guidelines.

Adverse developments in post-marketing experience or in clinical trials conducted by others of gene therapy products, cell therapy products or products developed through the application of genome editing technology may cause the FDA, the EMA and other regulatory bodies to revise the requirements for development or approval of our potential product candidates or limit the use of products utilizing genome editing technologies, either of which could materially harm our business. In addition, the clinical trial requirements of the FDA, the EMA and other regulatory authorities and the criteria these regulators use to determine the safety and efficacy of a product candidate vary substantially according to the type, complexity, novelty and intended use and market of the potential products. The regulatory approval process for novel product candidates can be more expensive and take longer than for other, better known or more extensively studied pharmaceutical or other product candidates. Regulatory agencies administering existing or future regulations or legislation may not allow production and marketing of products utilizing genome editing technology in a timely manner or under technically or commercially feasible conditions. In addition, regulatory action or private litigation could result in expenses, delays or other impediments to our research programs or the commercialization of resulting products.

The regulatory review committees and advisory groups described above and any new guidelines they promulgate may lengthen the regulatory review process, require us to perform additional studies or trials, increase our development costs, lead to changes in regulatory positions and interpretations, delay or prevent approval and commercialization of these treatment candidates or lead to significant post-approval limitations or restrictions. As we advance our research programs and develop future product candidates, we will be required to consult with these regulatory and advisory groups and to comply with applicable guidelines. If we fail to do so, we may be required to delay or discontinue development of any product candidates we identify and develop.

***The genome editing field is relatively new and is evolving rapidly. We are focusing our research and development efforts on genome editing using programmable nucleases, base editing, and RNA and DNA-mediated integration systems (including prime editors and CRISPR-associated (“Cas”) transposases), but other genome editing technologies may be discovered that provide significant advantages over such technologies, which could materially harm our business.***

To date, we have focused our efforts on genome editing technologies using programmable nucleases, base editing, and RNA and DNA-mediated integration systems (including prime editors and Cas transposases backed by our metagenomics database). Other companies have previously undertaken research and development of genome editing technologies using zinc finger nucleases, engineered meganucleases and transcription activator-like effector nucleases, but to date none have obtained regulatory approval for a product candidate. There can be no certainty that genome editing technology will lead to the development of genetic medicines or that other genome editing technologies will not be considered better or more attractive for the development of medicines. A number of alternative approaches are being developed by others. Our investments may not be consistent with the expectations of our stockholders and may not produce the benefits that we expect, in which case our growth, business, financial condition, and results of operations could be adversely affected. See “Risk Factors—Risks Related to Business, Technology and Industry—We face significant competition in an environment of rapid technological change, and there is a possibility that our competitors may achieve regulatory approval before us or develop therapies that are safer or more advanced or effective than ours, which may harm our financial condition and our ability to successfully market or commercialize any product candidates we may develop.” Similarly, another new genome editing technology that has not been discovered yet may be more attractive than programmable nucleases, base editing, and RNA and DNA-mediated integration systems.

Moreover, if we decide to develop genome editing technologies other than those involving such technologies, we cannot be certain we will be able to obtain rights to such technologies. Any of these factors could reduce or eliminate our commercial opportunity, and could have a material adverse effect on our business, financial condition, results of operations and prospects.

***If any of the product candidates we may develop or the delivery modes we rely on cause undesirable side effects, it could delay or prevent their development or potential regulatory approval, limit the commercial potential or result in significant negative consequences following any potential regulatory approval.***

To date, we have not evaluated any product candidates in human clinical trials. It is impossible to predict when or if any product candidates we may develop will ultimately prove safe in humans. In the genomic medicine field, there have been several significant adverse events from gene therapy treatments in the past, including reported cases of leukemia and death. Product candidates we may develop may be associated with undesirable side effects, unexpected characteristics or other serious adverse events, including off-target cuts of DNA, or the introduction of cuts in DNA at locations other than the target sequence. These off-target cuts could lead to disruption of a gene or a genetic regulatory sequence at an unintended site in the DNA, or, in those instances where we also provide a segment of DNA to serve as a repair template, it is possible that following off-target cut events, DNA from such repair template could be integrated into the genome at an unintended site, potentially disrupting another important gene or genomic element. There is also the potential risk of delayed adverse events following exposure to genome editing therapy due to persistent biologic activity of the genetic material or other components of products used to carry the genetic material. Possible adverse side effects that could occur with treatment with genome editing products include an immunologic reaction after administration which could substantially limit the effectiveness of the treatment. If any of our genome editing technologies demonstrate a similar effect, we may decide or be required to halt or delay preclinical development or clinical development of any product candidates we may develop. In addition to serious adverse events or side effects caused by any product candidate we may develop, the administration process or related procedures also can cause undesirable side effects. If any such events occur, our preclinical studies or clinical trials could be delayed, suspended or terminated. There can be no assurance that our genome editing technologies will not cause severe or undesirable side effects.

If in the future we are unable to demonstrate that such adverse events were caused by factors other than our product candidate, the FDA, the EMA or other comparable foreign regulatory authorities could order us to cease further clinical studies of, or deny approval of, any product candidates we develop for any or all targeted indications. Even if we are able to demonstrate that all future serious adverse events are not product-related, such occurrences could affect patient recruitment or the ability of enrolled patients to complete the trial.

Moreover, if we elect, or are required, to delay, suspend or terminate any clinical trial of any product candidate we may develop, the commercial prospects of such product candidates may be harmed and our ability to generate product revenues from any of these product candidates may be delayed or eliminated. Any of these occurrences may harm our ability to identify and develop product candidates, and may harm our business, financial condition, result of operations and prospects significantly.

Viral vectors, including the adeno-associated virus (“AAV”), which are relatively new approaches used for disease treatment, also have known side effects, and for which additional risks could develop in the future. In past clinical trials that were conducted by others with non-AAV vectors, significant side effects were caused by gene therapy treatments, including reported cases of myelodysplasia, leukemia and death. Other potential side effects could include an immunologic reaction and insertional oncogenesis, which is the process whereby the insertion of a functional gene near a gene that is important in cell growth or division results in uncontrolled cell division, which could potentially enhance the risk of cancer. If the vectors we use demonstrate a similar side effect, or other adverse events, we may be required to halt or delay further clinical development of any potential product candidates. Such delayed adverse events may also occur in other viral vectors, including AAV vectors.

In addition to side effects and adverse events caused by our product candidates, the conditioning, administration process or related procedures which may be used to condition a patient for gene therapy treatment also can cause adverse side effects and adverse events. A gene therapy patient is generally administered cytotoxic drugs to remove stem cells from the bone marrow to create sufficient space in the bone marrow for the modified stem cells to engraft and produce new cells. This procedure compromises the patient’s immune system, and conditioning regimens have been associated with adverse events in clinical trial participants.

Additionally, if we successfully develop a product candidate and it receives regulatory approval, the FDA could require us to adopt a Risk Evaluation and Mitigation Strategy (“REMS”) to ensure that the benefits of treatment with such product candidate outweighs the risks for each potential patient, which may include, among other things, a medication guide outlining the risks of the product for distribution to patients, a communication plan to healthcare practitioners, extensive patient monitoring, or distribution systems and processes that are highly controlled, restrictive, and more costly than what is typical for the industry. Furthermore, if we or others later identify undesirable side effects caused by any product candidate that we may develop that receives regulatory approval, several potentially significant negative consequences could result, including:

- regulatory authorities may revoke licenses or suspend, vary or withdraw approvals of such product candidate;
- regulatory authorities may require additional warnings on the label;
- we may be required to change the way a product candidate is administered or conduct additional clinical trials;
- we could be sued and held liable for harm caused to patients; and
- our reputation may suffer.

Any of these events could prevent us from achieving or maintaining market acceptance of our genome editing technology and any product candidates we may identify and develop and could have a material adverse effect on our business, financial condition, results of operations and prospects.

***Positive results from early preclinical studies of any product candidates we may develop may not necessarily be predictive of the results of later preclinical studies and any future clinical trials of such product candidates. If we cannot replicate the positive results from our earlier preclinical studies of any product candidates we may develop in our later preclinical studies and future clinical trials, we may be unable to successfully develop, obtain regulatory approval for and commercialize such product candidates.***

Any positive results from our preclinical studies of any product candidates we may develop may not necessarily be predictive of the results from later preclinical studies and clinical trials of such product candidates. Similarly, even if we are able to complete our planned preclinical studies or any future clinical trials of any product candidates we may develop according to our current development timeline, the positive results from such preclinical studies and clinical trials of our product candidates may not be replicated in subsequent preclinical studies or clinical trial results.

Many companies in the pharmaceutical and biotechnology industries have suffered significant setbacks in late-stage clinical trials after achieving positive results in early-stage development and we cannot be certain that we will not face similar setbacks. These setbacks have been caused by, among other things, preclinical findings made while clinical trials were underway or safety or efficacy observations made in preclinical studies and clinical trials, including previously unreported adverse events. Moreover, preclinical and clinical data are often susceptible to varying interpretations and analyses and many companies that believed their product candidates performed satisfactorily in preclinical studies and clinical trials nonetheless failed to obtain regulatory approval.

***We may also consider additional delivery modes, which may carry additional known and unknown risks.***

We may also consider additional delivery modes, which may carry additional known and unknown risks. For example, we intend to use lipid nanoparticles (“LNPs”) to deliver our nucleases. While LNPs have been used to deliver smaller molecules, such as small interfering RNA (“siRNA”), they have not been clinically proven to deliver large RNA molecules. Furthermore, as with many AAV-mediated gene therapy approaches, certain patients’ immune systems might prohibit the successful delivery, thereby potentially limiting treatment outcomes of these patients. Even if initial clinical trials in any of our potential product candidates we may develop are successful, these product candidates we may develop may fail to show the desired safety and efficacy in later stages of clinical development despite having successfully advanced through preclinical studies and initial clinical trials.

***We may find it difficult to enroll patients in our future clinical trials given the limited number of patients who have the diseases any product candidates we identify or develop are intended to target. If we experience delays or difficulties in the enrollment of patients in clinical trials, our clinical development activities and our receipt of necessary regulatory approvals could be delayed or prevented.***

As we progress our programs, we may not be able to initiate or continue clinical trials for any product candidates we identify or develop if we are unable to locate and enroll a sufficient number of eligible patients to participate in these trials as required by the FDA, the EMA or other comparable regulatory authorities outside the United States, or as needed to provide appropriate statistical power for a given trial. Enrollment may be particularly challenging for some of the rare genetically defined diseases we are targeting in some of our discovery programs. In addition, if patients are unwilling to participate in our genome editing trials because of negative publicity from adverse events related to the biotechnology, gene therapy or genome editing fields, competitive clinical trials for similar patient populations, clinical trials in competing product candidates or for other reasons, the timeline for recruiting patients, conducting studies and obtaining regulatory approval of our potential product candidates may be delayed. Moreover, some of our competitors may have ongoing clinical trials for product candidates that would treat the same indications as our potential product candidates, and patients who would otherwise be eligible for our future clinical trials may instead enroll in clinical trials of our competitors’ product candidates.

Patient enrollment is also affected by other factors, some of which may include:

- severity of the disease under investigation;
- size of the patient population and process for identifying patients, including proximity and availability of clinical trial sites for prospective patients with conditions that have small patient pools;
- design of the trial protocol, including efforts to facilitate timely enrollment in clinical trials;
- availability and efficacy of approved medications for the disease under investigation;
- availability of genetic testing for potential patients and ability to monitor patients adequately during and after treatment;
- ability to obtain and maintain patient informed consent;
- risk that enrolled patients will drop out before completion of the trial;
- eligibility and exclusion criteria for the trial in question;
- perceived risks and benefits of the product candidate under trial and genome editing as a therapeutic approach; and
- patient referral practices of physicians.

In addition, our ability to successfully initiate, enroll and complete a clinical trial in any foreign country is subject to numerous risks unique to conducting business in foreign countries, some of which may include:

- difficulty in establishing or managing relationships with clinical research organizations (“CROs”) and physicians;
- different standards for the conduct of clinical trials;
- different standard-of-care for patients with a particular disease;
- difficulty in locating qualified local consultants, physicians and partners; and
- potential burden of complying with a variety of foreign laws, medical standards and regulatory requirements, including the regulation of pharmaceutical and biotechnology products and treatment and of genome editing technologies.

Enrollment delays in our future clinical trials may result in increased development costs for our potential product candidates, which would cause the value of our company to decline and limit our ability to obtain additional financing. If we or our collaborators have difficulty enrolling a sufficient number of patients to conduct our future clinical trials as planned, we may need to delay, limit or terminate ongoing or planned clinical trials or entire clinical programs, any of which would have an adverse effect on our business, financial condition, results of operations and prospects.

***Genetic therapies are novel, and any product candidates we develop may be complex and difficult to manufacture. We could experience delays in satisfying regulatory authorities or production problems that result in delays in our development programs, limit the supply of the product candidates we may develop or otherwise harm our business.***

Any product candidates we may develop will likely require processing steps that are more complex than those required for most chemical pharmaceuticals. Moreover, unlike chemical pharmaceuticals, the physical and chemical properties of a biologic such as the product candidates we intend to develop generally cannot be fully characterized. As a result, assays of the finished product candidate may not be sufficient to ensure that the product candidate will perform in the intended manner. Problems with the manufacturing process, even minor deviations from the normal process, could result in product defects or manufacturing failures that result in lot failures, product recalls, product liability claims, insufficient inventory or potentially delay progression of our potential IND filings. If we successfully develop product candidates, we may encounter problems achieving adequate quantities and quality of clinical-grade materials that meet the FDA, the EMA or other comparable applicable foreign standards or specifications with consistent and acceptable production yields and costs. For example, the current approach of manufacturing AAV vectors may fall short of supplying required number of doses needed for advanced stages of preclinical studies or clinical trials, and the FDA may ask us to demonstrate that we have the appropriate manufacturing processes in place to support the higher-dose group in our preclinical studies or clinical trials. In addition, any product candidates we may develop will require complicated delivery methods, each of which will introduce additional complexities in the manufacturing process.

In addition, the FDA, the EMA and other regulatory authorities may require us to submit samples of any lot of any approved product together with the protocols showing the results of applicable tests at any time. Under some circumstances, the FDA, the EMA or other regulatory authorities may require that we not distribute a lot until the agency authorizes its release. Slight deviations in the manufacturing process, including those affecting quality attributes and stability, may result in unacceptable changes in the product that could result in lot failures or product recalls. Lot failures or product recalls could cause us to delay clinical trials or product launches, which could be costly to us and otherwise harm our business, financial condition, results of operations and prospects.

Given the nature of biologics manufacturing there is a risk of contamination during manufacturing. Any contamination could materially harm our ability to produce product candidates on schedule and could harm our results of operations and cause reputational damage. Some of the raw materials that we anticipate will be required in our manufacturing process are derived from biologic sources. Such raw materials are difficult to procure and may be subject to contamination or recall. A material shortage, contamination, recall or restriction on the use of biologically derived substances in the manufacture of any product candidates we may develop could adversely impact or disrupt the commercial manufacturing or the production of clinical material, which could materially harm our development timelines and our business, financial condition, results of operations and prospects.

Any problems in our manufacturing process or the facilities with which we contract could make us a less attractive collaborator for potential partners, including larger pharmaceutical companies and academic research institutions, which could limit our access to additional attractive development programs. Problems in third-party manufacturing process or facilities also could restrict our ability to ensure sufficient clinical material for any clinical trials we may be conducting or are planning to conduct and meet market demand for any product candidates we develop and commercialize.

***We face significant competition in an environment of rapid technological change, and there is a possibility that our competitors may achieve regulatory approval before us or develop therapies that are safer or more advanced or effective than ours, which may harm our financial condition and our ability to successfully market or commercialize any product candidates we may develop.***

The development and commercialization of new drug products is highly competitive. Moreover, the genome editing field is characterized by rapidly changing technologies, significant competition and a strong emphasis on intellectual property. We will face competition with respect to any product candidates that we may seek to develop or commercialize in the future from major pharmaceutical companies, specialty pharmaceutical companies and biotechnology companies worldwide. Potential competitors also include academic institutions, government agencies and other public and private research organizations that conduct research, seek patent or other intellectual property protection and establish collaborative arrangements for research, development, manufacturing and commercialization.

There are a number of large pharmaceutical and biotechnology companies that currently market and sell products or are pursuing the development of products for the treatment of the disease indications for which we have research programs. Some of these competitive products and therapies are based on scientific approaches that are the same as or similar to our approach, while others are based on entirely different approaches.

Amongst publicly traded peers, there are several companies utilizing CRISPR/Cas technology, including Caribou Biosciences, Inc., Editas Medicine, Inc., CRISPR Therapeutics AG and Intellia Therapeutics, Inc. Several additional companies such as Sangamo Therapeutics, Inc., Precision BioSciences, Inc., and Cellectis Inc. utilize alternative nuclease-based genome editing technologies, including zinc finger nucleases (“ZFNs”), engineered meganucleases and transcription-activator like effector nucleases (“TALENs”). Beam Therapeutics and Verve Therapeutics, Inc. (acquired by Eli Lilly and Company) utilize base editing technology. Prime Medicine utilizes prime editing technology.

In addition, Tessera Therapeutics, Inc. has announced their work in recombinase DNA and RNA gene writers, although, as a privately-held company, less is known publicly about their science or portfolio. Other companies such as nChroma Bio and Tune Therapeutics, Inc. are focused on epigenetic editing. In addition, we face competition from companies utilizing gene therapy, oligonucleotides and cell therapy therapeutic approaches.

Several private companies such as Arbor Biotechnologies, Inc., Scribe Therapeutics Inc., and Mammoth Biosciences, Inc. are actively searching for novel genome editing components and have reported the discovery of new DNA-cutting enzymes. Other companies are active in LNP delivery technologies and advancing those into therapeutics using genetic therapies, including Recode Therapeutics, Inc., Verve Therapeutics, Inc. (acquired by Eli Lilly and Company), Generation Bio Co. and Beam Therapeutics, among others.

Any product candidates that we successfully develop and commercialize will compete with existing therapies and new therapies that may become available in the future that are approved to treat the same diseases for which we may obtain approval for any product candidates we may develop. This may include other types of therapies, such as small molecule, antibody and/or protein therapies. For example, valoctocogene roxaparvovec, the first hemophilia A gene therapy, was conditionally approved for use in Europe in August 2022 and was approved in the United States in June 2023.

Many of our current or potential competitors, either alone or with their collaboration partners, may have significantly greater financial resources and expertise in research and development, manufacturing, conducting preclinical studies and clinical trials, obtaining regulatory approvals and marketing approved products than we do. Mergers and acquisitions in the pharmaceutical, biotechnology and gene therapy industries may result in even more resources being concentrated among a smaller number of our competitors. Smaller or early-stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large and established companies. These competitors also compete with us in recruiting and retaining qualified scientific and management personnel and establishing clinical trial sites and patient registration for clinical trials, as well as in acquiring technologies complementary to, or necessary for, our programs. Our commercial opportunity could be reduced or eliminated if our competitors develop and commercialize product candidates that are safer, more effective, have fewer or less severe side effects, are more convenient, or are less expensive than any product candidates that we may develop or that would render any product candidates that we may develop obsolete or non-competitive. Our competitors also may obtain FDA or other regulatory approval for their product candidates more rapidly than we may obtain approval for ours, which could result in our competitors establishing a strong market position before we are able to enter the market. Additionally, technologies developed by our competitors may render our potential product candidates uneconomical or obsolete, and we may not be successful in marketing any product candidates we may develop against competitors.

In addition, as a result of the expiration or successful challenge of our patent or other intellectual property rights, we could face risks relating to our ability to successfully prevent or delay launch of competitors’ products. The availability of our competitors’ products could limit the demand and the price we are able to charge for any product candidates that we may develop and commercialize.

***Adverse public perception of genome editing and cellular therapy products may negatively impact demand for, or regulatory approval of, any product candidates we may develop.***

The product candidates we may develop will involve editing the human genome. The clinical and commercial success of any product candidates we may develop will depend in part on public acceptance of the use of genome editing therapies for the prevention or treatment of human diseases. Public attitudes may be influenced by claims that genome editing is unsafe, unethical, or immoral, and, consequently, our products may not gain the acceptance of the public or the medical community. Negative public reaction to gene therapy in general could result in greater government regulation and stricter labeling requirements of genome editing products, including any of our product candidates, and could cause a decrease in the demand for any products we may develop. Adverse public attitudes may adversely impact our ability to enroll clinical trials. Additionally, ethical, social and legal concerns about genome editing and gene therapy could result in additional regulations restricting or prohibiting any product candidates we may develop.

***The commercial success of any of the product candidates we may develop will depend upon the degree of market acceptance by physicians, patients, third-party payors and others in the medical community.***

Even if we obtain the requisite approvals from the FDA in the United States, the EC in the European Union and other regulatory authorities internationally, the commercial success of any product candidates we may develop will depend, in part, on the acceptance of physicians, patients and health care payors of genome editing and gene therapy products in general, and our product candidates in particular, as medically necessary, cost-effective and safe. Any product that we commercialize may not gain acceptance by physicians, patients, health care payors and others in the medical community who may opt for existing treatments with which they are already familiar and for which greater clinical data may be available. The degree of market acceptance of genome editing and gene therapy products and, in particular, any product candidates we may develop, if approved for commercial sale, will depend on several factors, including:

- the efficacy, durability and safety of such product candidates as demonstrated in any future clinical trials;
- the potential and perceived advantages of such product candidates over alternative treatments;
- the cost of treatment relative to alternative treatments;
- the clinical indications for which the product candidate is approved by the FDA, the EC or other regulatory authorities;
- patient awareness of, and willingness to seek, genotyping;
- the willingness of physicians to prescribe new therapies;
- the willingness of the target patient population to try new therapies;
- the prevalence and severity of any side effects;
- product labeling or product insert requirements of the FDA, the EMA or other regulatory authorities, including any limitations or warnings contained in a product's approved labeling;
- relative convenience and ease of administration;
- the strength of marketing and distribution support;
- the timing of market introduction of competitive products;
- publicity concerning our products or competing products and treatments; and
- sufficient third-party payor coverage and reimbursement.

Even if a potential product displays a favorable efficacy and safety profile in preclinical studies and future clinical trials, market acceptance of the product will not be fully known until after it is launched. If any product candidates we may develop do not achieve an adequate level of acceptance following regulatory approval, if ever, we may not generate significant product revenue and may not become profitable.

***We may expend our limited resources to pursue a particular product candidate or indication and fail to capitalize on product candidates or indications that may be more profitable or for which there is a greater likelihood of success.***

We have limited financial and managerial resources. As a result, we may forego or delay pursuit of opportunities with other product candidates or for other indications that later prove to have greater commercial potential. Our resource allocation decisions may cause us to fail to timely capitalize on viable commercial products or profitable market opportunities. Our spending on current and future research and development programs and product candidates for specific indications may not yield any commercially viable products. If we do not accurately evaluate the commercial potential or target market for a particular product candidate, we may relinquish valuable rights to that product candidate through collaboration, licensing or other royalty arrangements in cases in which it would have been more advantageous for us to retain sole development and commercialization rights to such product candidate.

***If, in the future, we are unable to establish sales and marketing capabilities or enter into agreements with third parties to sell and market products based on our technologies, we may not be successful in commercializing our future product candidates if and when any such product candidates are approved and we may not be able to generate any revenue.***

We do not currently have a sales or marketing infrastructure and, as a company, have no experience in the sale, marketing or distribution of therapeutic products. To achieve commercial success for any potential approved product candidate for which we retain sales and marketing responsibilities, we must build our sales, marketing, managerial and other non-technical capabilities or make arrangements with third parties to perform these services. In the future, we may choose to build a focused sales and marketing infrastructure to sell, or participate in sales activities with our collaborators for, some of our product candidates if and when they are approved.

There are risks involved with both establishing our own sales and marketing capabilities and entering into arrangements with third parties to perform these services. For example, recruiting and training a sales force is expensive and time consuming and could delay any product launch. If the commercial launch of a product candidate for which we recruit a sales force and establish marketing capabilities is delayed or does not occur for any reason, we would have prematurely or unnecessarily incurred these commercialization expenses. This may be costly and our investment would be lost if we cannot retain or reposition our sales and marketing personnel.

Factors that may inhibit our efforts to commercialize our product candidates on our own include:

- our inability to recruit, train and retain adequate numbers of effective sales and marketing personnel;
- the inability of sales personnel to obtain access to physicians or persuade adequate numbers of physicians to prescribe any future product that we may develop;
- the lack of complementary treatments to be offered by sales personnel, which may put us at a competitive disadvantage relative to companies with more extensive product lines; and
- unforeseen costs and expenses associated with creating an independent sales and marketing organization.

If we enter into arrangements with third parties to perform sales, marketing and distribution services, our product revenue or the profitability to us from these revenue streams is likely to be lower than if we were to market and sell any product candidates that we develop ourselves. In addition, we may not be successful in entering into arrangements with third parties to sell and market our product candidates or may be unable to do so on terms that are favorable to us. We likely will have little control over such third parties and any of them may fail to devote the necessary resources and attention to sell and market our product candidates effectively. If we do not establish sales and marketing capabilities successfully, either on our own or in collaboration with third parties, we may not be successful in commercializing our product candidates. Further, our business, results of operations, financial condition and prospects will be materially adversely affected.

***Due to the novel nature of our technology and the potential for any product candidates we may develop to offer therapeutic benefit in a single administration or limited number of administrations, we face uncertainty related to pricing and reimbursement for such product candidates.***

Our initial target patient populations are relatively small, as a result of which the pricing and reimbursement of any product candidates we may develop, if approved, must be adequate to support the necessary commercial infrastructure. If we are unable to obtain adequate levels of reimbursement, our ability to successfully market and sell any such product candidates will be adversely affected. The manner and level at which reimbursement is provided for services related to any product candidates we may develop (e.g., for administration of our product candidate to patients) is also important. Inadequate reimbursement for such services may lead to physician and payor resistance and adversely affect our ability to market or sell our product candidates. In addition, we may need to develop new reimbursement models in order to realize adequate value. Payors may not be able or willing to adopt such new models, and patients may be unable to afford that portion of the cost that such models may require them to bear. If we determine such new models are necessary but we are unsuccessful in developing them, or if such models are not adopted by payors, our business, financial condition, results of operations, and prospects could be adversely affected.

We expect the cost of a single administration of a genome editing therapy, such as those we are seeking to develop, to be substantial, when and if they achieve regulatory approval. We expect that coverage and reimbursement by government and private payors will be essential for most patients to be able to afford these treatments. Accordingly, sales of any such product candidates will depend substantially, both domestically and abroad, on the extent to which the costs of any of our product candidates will be paid by government authorities, private health plans, and other third-party payors. Payors may not be willing to pay high prices for a single administration. Coverage and reimbursement by a third-party payor may depend upon several factors, including the third-party payor's determination that use of a product is:

- a covered benefit under its health plan;

- safe, effective, and medically necessary;
- appropriate for the specific patient;
- cost-effective; and
- neither experimental nor investigational.

Obtaining coverage and reimbursement for a product from third-party payors is a time-consuming and costly process that could require us to provide to the payor supporting scientific, clinical, and cost-effectiveness data. There is significant uncertainty related to third-party coverage and reimbursement of newly approved products. We may not be able to provide data sufficient to gain acceptance with respect to coverage and reimbursement. If coverage and reimbursement are not available, or are available only at limited levels, we may not be able to successfully commercialize any of our product candidates. Even if coverage is provided, the approved reimbursement amount may not be adequate to realize a sufficient return on our investment.

In the United States, no uniform policy exists for coverage and reimbursement for products among third-party payors. Therefore, decisions regarding the extent of coverage and amount of reimbursement to be provided can differ significantly from payor to payor. The process for determining whether a payor will provide coverage for a product may be separate from the process for setting the reimbursement rate a payor will pay for the product. One third-party payor's decision to cover a particular product or service does not ensure that other payors will also provide coverage for the medical product or service. Third-party payors may limit coverage to specific products on an approved list or formulary, which may not include all FDA-approved products for a particular indication.

Further, third-party payors are increasingly challenging the price and examining the medical necessity and cost-effectiveness of medical products and services, in addition to their safety and efficacy. In order to secure coverage and reimbursement for any product that might be approved for sale, we may need to conduct expensive pharmacoeconomic studies in order to demonstrate the medical necessity and cost-effectiveness of any product candidates we may develop, in addition to the costs required to obtain FDA or comparable regulatory approvals. Additionally, we may also need to provide discounts to purchasers, private health plans or government healthcare programs. Despite our best efforts, any product candidates we may develop may not be considered medically necessary or cost-effective. If third-party payors do not consider a product to be cost-effective compared to other available therapies, they may not cover an approved product as a benefit under their plans or, if they do, the level of payment may not be sufficient to allow us to sell our products at a profit. A decision by a third-party payor not to cover a product could reduce physician utilization once the product is approved and have a material adverse effect on sales, our operations and financial condition. Finally, in some foreign countries, the proposed pricing for a product candidate must be approved before it may be lawfully marketed. The requirements governing product pricing vary widely from country to country. For example, in the EU, pricing and reimbursement of pharmaceutical products are regulated at a national level under the individual EU Member States' social security systems. Some foreign countries provide options to restrict the range of medicinal products for which their national health insurance systems provide reimbursement and can control the prices of medicinal products for human use. To obtain reimbursement or pricing approval, some of these countries may require the completion of clinical trials that compare the cost effectiveness of a particular product candidate to currently available therapies. A country may approve a specific price for the medicinal product or it may instead adopt a system of direct or indirect controls on the profitability of the company placing the medicinal product on the market. There can be no assurance that any country that has price controls or reimbursement limitations for products will allow favorable reimbursement and pricing arrangements for any of our product candidates. Even if approved for reimbursement, historically, product candidates launched in some foreign countries, such as some countries in the EU, do not follow price structures of the United States and prices generally tend to be significantly lower.

***If we are not able to establish collaborations on a timely basis, on commercially reasonable terms, or at all, we may have to alter, reduce or delay our development and commercialization plans, or increase our expenditures to fund development or commercialization activities at our own expense.***

For some of the product candidates we may develop, we may decide to collaborate with other pharmaceutical and biotechnology companies for the development and potential commercialization of those product candidates. We face significant competition in seeking appropriate collaborations and collaborations are complex and time-consuming to negotiate and document. Whether we reach a definitive agreement for a collaboration will depend, among other things, upon our assessment of the collaborator's resources and expertise, the terms and conditions of the proposed collaboration, and the proposed collaborator's evaluation of a number of factors. Those factors may include the design or results of clinical trials, the likelihood of approval by the FDA, the EMA or similar regulatory authorities outside the United States, the potential market for the subject product candidate, the costs and complexities of manufacturing and delivering such product candidate to patients, the potential of competing products, the existence of uncertainty with respect to our ownership of technology, which can exist if there is a challenge to such ownership without regard to the merits of the challenge, and industry and market conditions generally. The collaborator may also consider alternative product candidates or technologies for similar indications that may be available to collaborate on and whether such a collaboration could be more attractive than the one with us.

We may also be restricted under existing collaboration agreements from entering into future collaboration agreements on certain terms with potential collaborators. In addition, there have been a significant number of recent business combinations among large pharmaceutical companies that have resulted in a reduced number of potential future collaborators, which further increases competition we face in seeking potential collaborations.

We may not be able to negotiate collaborations on a timely basis, on acceptable terms, or at all. If we are unable to do so, we may have to curtail the development of the product candidate for which we are seeking to collaborate, reduce or delay its development program or one or more of our other development programs, delay its potential commercialization or reduce the scope of any sales or marketing activities, or increase our expenditures and undertake development or commercialization activities at our own expense. If we elect to increase our expenditures to fund development or commercialization activities on our own, we may need to obtain additional capital, which may not be available to us on acceptable terms or at all. If we do not have sufficient funds, we may not be able to develop product candidates or bring them to market and generate product revenue.

***Unfavorable global economic conditions could adversely affect our business, financial condition or results of operations.***

Our results of operations could be adversely affected by general conditions in the global economy, geopolitical tensions and in the global financial markets. A severe or prolonged economic downturn or additional global financial and political crises could result in a variety of risks to our business, including weakened demand for any product candidates we develop or our ability to raise additional capital when needed on acceptable terms, if at all. A weak or declining economy could also strain our suppliers or other third parties and create import and export issues, possibly resulting in supply disruption. Any of the foregoing could harm our business and we cannot anticipate all of the ways in which the current economic climate and financial market conditions could adversely impact our business.

The future geopolitical landscape also remains particularly uncertain as a result of evolving U.S. and foreign political developments. Any resulting changes in international trade relations, legislation and regulations, including those related to trade tariffs, taxation, and importation, or economic and monetary policies, or heightened diplomatic tensions or political and civil unrest, among other potential impacts, could adversely impact the global economy and our operating results.

***We face risks related to health epidemics, pandemics and other widespread outbreaks of contagious disease, which could significantly disrupt our operations, impact our financial results or otherwise adversely impact our business.***

Significant outbreaks of contagious diseases and other adverse public health developments could have a material impact on our business operations and operating results. As a result of public health crises that may arise, we may experience disruptions that could adversely impact our operations, research and development, and as we continue developing, any preclinical studies, clinical trials and manufacturing activities we may conduct, some of which may include:

- delays or disruptions in research programs, preclinical studies, clinical trials or IND-enabling studies that we or our collaborators may conduct;
- interruption or delays in the operations of the FDA, the EMA and comparable foreign regulatory agencies;
- interruption of, or delays in receiving and distributing, supplies of drug substance and drug product from our contract manufacturing organizations (“CMOs”), to preclinical or clinical research sites or delays or disruptions in any preclinical studies or clinical trials performed by CROs;
- limitations imposed on our business operations by local, state or federal authorities to address a pandemic or similar public health crises; and
- business disruptions caused by potential workplace, laboratory and office closures and an increased reliance on employees working from home, disruptions to or delays in ongoing laboratory experiments and operations, staffing shortages, travel limitations, and cybersecurity and data accessibility or security issues.

If we or any of the third parties with whom we engage were to experience additional shutdowns or other business disruptions as a result of future health epidemics, pandemics and other widespread outbreaks of contagious disease, our ability to conduct our business in the manner and on the timelines presently planned could be materially and negatively affected, which could have a material adverse impact on our business, financial condition, our results of operations and prospects. Furthermore, public health crises could exacerbate the other risks described in this section.

***Our operations are vulnerable to interruption by disasters, terrorist activity, pandemics and other events beyond our control, which could harm our business.***

Our facilities are located in California. We have not undertaken a systematic analysis of the potential consequences to our business and financial results from a major flood, power loss, terrorist activity, pandemics or other regional or global disasters and generally do not have a recovery plan for such events. In addition, we do not carry sufficient insurance to compensate us for actual losses from interruption of our business that may occur, and any losses or damages incurred by us could harm our business. The occurrence of any of these business disruptions could seriously harm our operations and financial condition and increase our costs and expenses.

***We use artificial intelligence in our business, and challenges with properly managing its use, as well as uncertainty regarding the legal landscape surrounding the use of AI could result in reputational harm, competitive harm, and legal liability, and adversely affect our results of operations.***

We incorporate artificial intelligence (“AI”) solutions into our platform, and these applications may become important in our operations over time. There are significant risks involved in utilizing AI and no assurance can be provided that the usage of such AI will enhance our business or assist our business in being more efficient or profitable. If we enable or offer solutions that draw controversy due to perceived or actual negative societal impact, we may experience brand or reputational harm, competitive harm or legal liability. Known risks of AI currently include inaccuracy, bias, toxicity, intellectual property infringement or misappropriation, data privacy risks and cybersecurity and data provenance challenged, among other risks. In addition, AI may have errors or inadequacies that are not easily detectable. AI may also be subject to data herding and interconnectedness (i.e., multiple market participants utilizing the same data), which may adversely impact our business. If the data used to train AI or the content, analyses, or recommendations that AI applications assist in producing are or are alleged to be deficient, inaccurate, incomplete, overbroad or biased, our business, financial condition, and results of operations may be adversely affected. The legal landscape and subsequent legal protection for the use of AI remains uncertain, and development of the law in this area could impact our ability to enforce our proprietary rights or protect against infringing uses. If we do not have sufficient rights to use the data on which AI relies or to the outputs produced by AI applications, we may incur liability through the violation of certain laws, third-party privacy or other rights or contracts to which we are a party.

Additionally, we expect to see increasing government and supranational regulation related to artificial intelligence use and ethics, which may also significantly increase the burden and cost of research, development and compliance in this area. For example, the EU’s Artificial Intelligence Act (“AI Act”) — the world’s first comprehensive AI law — which entered into force on August 1, 2024 and most provisions of which will become effective on August 2, 2026. This legislation imposes significant obligations on providers and deployers of high risk artificial intelligence systems, and encourages providers and deployers of artificial intelligence systems to account for EU ethical principles in their development and use of these systems. If we develop or use AI systems that are governed by the AI Act, it may necessitate ensuring higher standards of data quality, transparency, and human oversight, as well as adhering to specific and potentially burdensome and costly ethical, accountability, and administrative requirements. Likewise, in the U.S., a number of states have proposed and passed laws regulating various uses of AI, and federal regulators have issued guidance affecting the use of AI in regulated sectors. For example, the FDA has issued draft guidance on the use of AI to produce information or data intended to support regulatory decision-making regarding the safety, effectiveness, or quality of drugs and biological products.

Even in the absence of dedicated AI laws and regulations, we may be subject to novel legal and business risks relating to our adoption of these new technologies. Our vendors may in turn incorporate AI tools into their own offerings, and the providers of these AI tools may not meet existing or rapidly evolving regulatory or industry standards, including with respect to privacy and data security. Bad actors around the world use increasingly sophisticated methods, including the use of AI, to engage in illegal activities involving the theft and misuse of personal information, confidential information, and intellectual property. Use of generative AI models in our internal or third-party systems may create new attack surfaces or methods for adversaries, which could impact us and our vendors. The integration of AI systems, by us or by our vendors, may increase cybersecurity risk that implicates the personal information of customers or patients. Any cybersecurity incidents or data breaches related to our use of AI applications could adversely affect our reputation and results of operations.

## Risks Related to Regulatory, Legal, and Clinical Trials

*While we intend to seek designations for our potential product candidates with the FDA and comparable foreign regulatory authorities that are intended to confer benefits such as a faster development process or an accelerated regulatory pathway, there can be no assurance that we will successfully obtain such designations. In addition, even if one or more of our potential product candidates are granted such designations, we may not be able to realize the intended benefits of such designations.*

The FDA and comparable foreign regulatory authorities offer certain designations for product candidates that are designed to encourage the research and development of product candidates that are intended to address conditions with significant unmet medical need. These designations may confer benefits such as additional interaction with regulatory authorities, a potentially accelerated regulatory pathway and priority review.

However, there can be no assurance that we will successfully obtain such designations for any potential product candidates. In addition, while such designations could expedite the development or approval process, they generally do not change the standards for approval. Even if we obtain such designations for one or more of our potential product candidates, there can be no assurance that we will realize their intended benefits. For example, we may seek fast track designation for some of our potential product candidates. If a therapy is intended for the treatment of a serious or life threatening condition and the therapy nonclinical or clinical data demonstrates the potential to address unmet medical needs for this condition, the therapy sponsor may apply for fast track designation. The FDA has broad discretion whether or not to grant this designation, so even if we believe a particular product candidate is eligible for this designation, there can be no assurance that the FDA would decide to grant it. Even if we do receive fast track designation, we may not experience a faster development process, review or approval compared to conventional FDA procedures, and receiving a fast track designation does not provide assurance of ultimate FDA approval. In addition, the FDA may withdraw fast track designation if it believes that the designation is no longer supported by data from our clinical development program. Additionally, we may seek a breakthrough therapy designation for some of our potential product candidates. A breakthrough therapy is defined as a therapy that is intended, alone or in combination with one or more other therapies, to treat a serious or life-threatening disease or condition, and preliminary clinical evidence indicates that the therapy may demonstrate substantial improvement over existing therapies on one or more clinically significant endpoints, such as substantial treatment effects observed early in clinical development. For therapies that have been designated as breakthrough therapies, interaction and communication between the FDA and the sponsor of the trial can help to identify the most efficient path for clinical development while minimizing the number of patients placed in ineffective control regimens. Therapies designated as breakthrough therapies by the FDA may also be eligible for accelerated approval. Designation as a breakthrough therapy is within the discretion of the FDA. Accordingly, even if we believe one of our potential product candidates meets the criteria for designation as a breakthrough therapy, the FDA may disagree and instead determine not to make such designation. In any event, the receipt of a breakthrough therapy designation for a product candidate may not result in a faster development process, review or approval compared to therapies considered for approval under conventional FDA procedures and does not assure ultimate approval by the FDA. In addition, even if one or more of our potential product candidates qualify as breakthrough therapies, the FDA may later decide that such product candidates no longer meet the conditions for qualification. In addition, we may seek a regenerative medicine advanced therapy (“RMAT”) designation for some of our potential product candidates. An RMAT is defined as cell therapies, therapeutic tissue engineering products, human cell and tissue products and combination products using any such therapies or products. Gene therapies, including genetically modified cells that lead to a durable modification of cells or tissues may meet the definition of a regenerative medicine therapy. The RMAT program is intended to facilitate efficient development and expedite review of RMATs, which are intended to treat, modify, reverse or cure a serious or life-threatening disease or condition. A new drug application or a biologics license application (“BLA”) for an RMAT may be eligible for priority review or accelerated approval through (1) surrogate or intermediate endpoints reasonably likely to predict long-term clinical benefit or (2) reliance upon data obtained from a meaningful number of sites. Benefits of such designation also include early interactions with the FDA to discuss any potential surrogate or intermediate endpoint to be used to support accelerated approval. A regenerative medicine therapy that is granted accelerated approval and is subject to post-approval requirements may fulfill such requirements through the submission of clinical evidence, clinical trials, patient registries or other sources of real world evidence, such as electronic health records; the collection of larger confirmatory data sets; or post-approval monitoring of all patients treated with such therapy prior to its approval. RMAT designation is within the discretion of the FDA. Accordingly, even if we believe one of our potential product candidates meets the criteria for designation as a regenerative medicine advanced therapy, the FDA may disagree and instead determine not to make such designation. In any event, the receipt of RMAT designation for a product candidate may not result in a faster development process, review or approval compared to drugs considered for approval under conventional FDA procedures and does not assure ultimate approval by the FDA. In addition, even if one or more of our potential product candidates qualify as for RMAT designation, the FDA may later decide that the biological products no longer meet the conditions for qualification. We may also seek rare pediatric disease designation for some of our potential product candidates. The FDA defines “rare pediatric disease” as a (i) serious or life-threatening disease in which the serious or life-threatening manifestations primarily affect individuals aged from birth to 18 years, including age groups often called neonates, infants, children, and adolescents; and (ii) a rare disease or condition within the meaning of the Orphan Drug Act. Designation of a product candidate as a product for a rare pediatric disease does not guarantee that a marketing application for such product candidate will meet the eligibility criteria for a rare pediatric disease priority review voucher

(“PRV”) at the time the application is approved. Under the FD&C Act, we will need to request a rare pediatric disease PRV in our original marketing application for any potential product candidates for which we have received rare pediatric disease designation. The FDA may determine that a marketing application for any such product candidates, if approved, does not meet the eligibility criteria for a PRV. The FDA is currently authorized by Congress to award rare pediatric disease priority review vouchers through September 30, 2029. However, it is possible the authority for FDA to award rare pediatric disease priority review vouchers will be further extended by Congress.

In the future, we may also seek approval of product candidates under the FDA’s accelerated approval pathway. A product may be eligible for accelerated approval if it is designed to treat a serious or life-threatening disease or condition and generally provides a meaningful advantage over available therapies upon a determination that the product candidate has an effect on a surrogate endpoint or intermediate clinical endpoint that is reasonably likely to predict clinical benefit or on a clinical endpoint that can be measured earlier than irreversible morbidity or mortality (“IMM”) that is reasonably likely to predict an effect on IMM or other clinical benefit. The FDA considers a clinical benefit to be a positive therapeutic effect that is clinically meaningful in the context of a given disease, such as IMM. For the purposes of accelerated approval, a surrogate endpoint is a marker, such as a laboratory measurement, radiographic image, physical sign or other measure that is thought to predict clinical benefit, but is not itself a measure of clinical benefit. An intermediate clinical endpoint is a clinical endpoint that can be measured earlier than an effect on irreversible morbidity or mortality that is reasonably likely to predict an effect on irreversible morbidity or mortality or other clinical benefit. The accelerated approval pathway may be used in cases in which the advantage of a new drug over available therapy may not be a direct therapeutic advantage, but is a clinically important improvement from a patient and public health perspective. If granted, accelerated approval is usually contingent on the sponsor’s agreement to conduct, in a diligent manner, additional post-approval confirmatory studies to verify and describe the drug’s clinical benefit. Under the Food and Drug Omnibus Reform Act of 2022 (“FDORA”), the FDA is permitted to require, as appropriate, that a post-approval confirmatory study or studies be underway prior to approval or within a specified time period after the date of approval for a product granted accelerated approval.

FDORA also requires sponsors to send updates to the FDA every 180 days on the status of such studies, including progress toward enrollment targets, and the FDA must promptly post this information publicly. FDORA also gives the FDA increased authority to withdraw approval of a drug or biologic granted accelerated approval on an expedited basis if the sponsor fails to conduct such studies in a timely manner, send the necessary updates to the FDA, or if such post-approval studies fail to verify the drug’s predicted clinical benefit. Under FDORA, the FDA is empowered to take action, such as issuing fines, against companies that fail to conduct with due diligence any post-approval confirmatory study or submit timely reports to the agency on their progress. There can be no assurance that the FDA would allow any of the product candidates we may develop to proceed on an accelerated approval pathway, and even if the FDA did allow such pathway, there can be no assurance that such submission or application will be accepted or that any expedited development, review or approval will be granted on a timely basis, or at all. Moreover, even if we received accelerated approval, any post-approval studies required to confirm and verify clinical benefit may not show such benefit, which could lead to withdrawal of any approvals we have obtained. Receiving accelerated approval does not assure that the product’s accelerated approval will eventually be converted to a traditional approval.

If the FDA determines that a product candidate offers a treatment for a serious condition and, if approved, the product would provide a significant improvement in safety or effectiveness, the FDA may designate the product candidate for priority review. A priority review designation means that the goal for the FDA to review an application is six months, rather than the standard review period of ten months. We may request priority review for the product candidates that we may develop. The FDA has broad discretion with respect to whether or not to grant priority review status to a product candidate, so even if we believe a particular product candidate is eligible for such designation or status, the FDA may decide not to grant it. Moreover, a priority review designation does not necessarily result in an expedited regulatory review or approval process or necessarily confer any advantage with respect to approval compared to conventional FDA procedures. Receiving priority review from the FDA does not guarantee approval within the six-month review cycle or at all.

In addition, in the European Union, we may seek to participate in the EMA's PRIority Medicines ("PRIME") scheme for our potential product candidates. The PRIME scheme is intended to encourage development of products in areas of unmet medical need and provides accelerated assessment of products representing substantial innovation, where the marketing authorization application will be made through the centralized procedure in the European Union. Products from small- and medium-sized enterprises may qualify for earlier entry into the PRIME scheme than larger companies on the basis of compelling non-clinical data and tolerability data from initial clinical trials. Eligible products must target conditions for which there is an unmet medical need (no treatment option exists in the European Union or, they can offer a major therapeutic advantage over existing treatments). Many benefits accrue to sponsors of product candidates with PRIME designation, including but not limited to, early and proactive regulatory dialogue with the EMA, frequent discussions on clinical trial designs and other development program elements, and accelerated marketing authorization application assessment once a dossier has been submitted. There is no guarantee, however, that our potential product candidates would be deemed eligible for the PRIME scheme and even if we do participate in the PRIME scheme, where during the course of development a product no longer meets the eligibility criteria, support under the PRIME scheme may be withdrawn. PRIME eligibility does not change the standards for product approval, and there is no assurance that any such designation or eligibility will result in expedited review or approval.

***Healthcare and other reform legislation may increase the difficulty and cost for us and any collaborators we may have to obtain regulatory approval of and commercialize any product candidates we may develop and affect the prices we, or they, may obtain.***

In the United States and some foreign jurisdictions, there have been and continue to be ongoing efforts to implement legislative and regulatory changes regarding the healthcare system. Such changes could prevent or delay regulatory approval of any product candidates that we may develop, restrict or regulate post-approval activities and affect our ability to profitably sell any product candidates for which we obtain regulatory approval. Although we cannot predict what healthcare or other reform efforts will be successful, such efforts may result in more rigorous coverage criteria, in additional downward pressure on the price that we, or our future collaborators, may receive for any approved products or in other consequences that may adversely affect our ability to achieve or maintain profitability.

Within the United States, the federal government and individual states have aggressively pursued healthcare reform, as evidenced by the passing of the Affordable Care Act, as amended by the Health Care and Education Reconciliation Act of 2010 (collectively, the "ACA"), and the ongoing efforts to modify or repeal that legislation. The ACA significantly changed the way healthcare is financed by both governmental and private insurers and contains a number of provisions that affect coverage and reimbursement of drug products and/or that could potentially reduce the demand for pharmaceutical products such as increasing drug rebates under state Medicaid programs for brand name prescription drugs and extending those rebates to Medicaid managed care and assessing a fee on manufacturers and importers of brand name prescription drugs reimbursed under certain government programs, including Medicare and Medicaid. Other aspects of healthcare reform, such as expanded government enforcement authority and heightened standards that could increase compliance-related costs, could also affect our business. Modifications have been implemented under the former Trump administration and additional modifications or repeal may occur.

There have also been executive, judicial, and congressional challenges to certain aspects of the ACA. It is unclear how other healthcare reform measures of the presidential administration or other efforts, if any, to challenge, repeal or replace the ACA will impact our business. There is no assurance that federal or state healthcare reform will not adversely affect our future business and financial results, and we cannot predict how future federal or state legislative, judicial or administrative changes relating to healthcare reform will affect our business.

In addition, other legislative changes have been proposed and adopted in the United States since the ACA was enacted. For example, the American Rescue Plan Act of 2021 eliminated the statutory Medicaid drug rebate cap, previously set at 100 percent of a drug's average manufacturer price, for single source and innovator multiple source drugs, beginning January 1, 2024. The U.S. Budget Control Act of 2011 and subsequent legislation, among other things, included aggregate reductions of Medicare payments to providers of 2% per fiscal year, which remain in effect through 2032. The American Taxpayer Relief Act of 2012 further reduced Medicare payments to several providers, including hospitals, imaging centers and cancer treatment centers, and increased the statute of limitations period for the government to recover overpayments to providers from three to five years.

Additionally, there has been increasing legislative and enforcement interest in the United States with respect to drug pricing practices, which has resulted in several U.S. Congressional inquiries and federal and state legislation designed to, among other things, bring more transparency to drug pricing, reduce the cost of prescription drugs, and review the relationship between pricing and manufacturer patient programs. The Inflation Reduction Act of 2022 (the “IRA”), for example, includes several provisions that may impact our business to varying degrees, including provisions that reduce the out-of-pocket spending cap for Medicare Part D beneficiaries to \$2,000 starting in 2025, eliminating the prescription drug coverage gap; impose new manufacturer financial liability on certain drugs under Medicare Part D, allow the U.S. government to negotiate Medicare Part B and Part D price caps for certain high-cost drugs and biologics without generic or biosimilar competition; require companies to pay rebates to Medicare for certain drug prices that increase faster than inflation; and delay until January 1, 2032 the implementation of an HHS rebate rule that would have limited the fees that pharmacy benefit managers can charge. Further, under the IRA, orphan drugs were previously exempted from the Medicare drug price negotiation program; however, this exemption was restricted to drugs with only one orphan designation and for which the only approved indication is for that disease or condition. If a product received multiple orphan designations or had multiple approved indications, it would not qualify for the orphan drug exemption. Under the OBBBA, this restriction was eliminated; and effective for the 2028 initial price applicability year, all orphan drugs, regardless of the number of orphan designations or indications, are exempt from the Medicare drug price negotiation program. The effects of the IRA on our business and the healthcare industry in general is not yet known.

In addition, the One Big Beautiful Bill Act of 2025 (“OBBBA”) imposed significant reductions in Medicaid funding, additional work requirements for Medicaid recipients, and more frequent reenrollment requirements. These changes are expected to place substantial pressure on state Medicaid budgets, reduce enrollment, and limit covered services, which could decrease utilization of, and reimbursement for, our products, if approved.

The costs of prescription pharmaceuticals have also been the subject of considerable discussion in the United States. To date, there have been several recent U.S. congressional inquiries, as well as proposed and enacted federal and state legislation designed to, among other things, bring more transparency to drug pricing, review the relationship between pricing and manufacturer patient programs, reduce the costs of drugs under Medicare and reform government program reimbursement methodologies for drug products. The Trump Administration has issued executive orders and supported proposed regulatory initiatives in 2025 that could have a significant impact on the prices that we, or any collaborators, may receive for any approved products.

On May 12, 2025, President Trump signed an executive order directing the Secretary of HHS to set and communicate most-favored-nation (“MFN”) price targets to manufacturers and propose a rulemaking plan to impose MFN pricing if “significant progress” is not made, and also directing the federal government to support regulatory paths to allow direct-to-patient sales for companies that meet these targets. The executive order further states that the Administration will take additional action (for example, examining whether marketing approvals should be modified or rescinded or considering individual drug importation waiver authorities) should manufacturers fail to offer American consumers the MFN lowest price. In July 2025, President Trump sent letters to certain pharmaceutical companies demanding that these companies extend MFN pricing to Medicaid and newly launched drugs as well as move to direct-to-consumer models priced at MFN pricing, and soliciting binding commitments by September 29, 2025. Since this time, multiple drug manufacturers have announced plans to, for certain of their drugs, lower prices to reflect similar pricing around the world, and to sell these reduced-price drugs on a direct-to-consumer purchasing platform developed by the federal government; however, it is not known what results will occur to the extent the recipients of these letters do not reduce their U.S. prices.

On December 19, 2025, CMS released two proposed rules that would incorporate MFN pricing principles into federal reimbursement for prescription drugs. The first proposal, the Global Benchmark for Efficient Drug Pricing Model (“GLOBE”) for Medicare Part B, would require manufacturers of specified single source drugs and sole source biologics to pay incremental rebates based on international benchmark prices, with participation triggered for products meeting CMS’s spending and eligibility criteria. The second proposal, the Guarding U.S. Medicare Against Rising Drug Costs (“GUARD”) model for Medicare Part D, would similarly mandate manufacturer rebates for qualifying sole source drugs where the Medicare net price exceeds an MFN benchmark derived from international reference pricing methodologies. As proposed, GLOBE would begin a five year performance period on October 1, 2026 and GUARD would begin its performance period in 2027. These proposals will likely be subject to legal challenges that could delay their implementation or modify their impact on manufacturer pricing and revenue. Additionally, in November 2025, CMS introduced the GENERating cost Reductions fOr U.S. Medicaid (“GENEROUS”) Model, a voluntary MFN framework for manufacturers participating in the Medicaid Drug Rebate Program. Although it is voluntary, the GENEROUS Model could also impact the drug pricing landscape for manufacturers.

The effect of these healthcare reform initiatives on our business and the pharmaceutical industry in general is not yet known, but could be substantial and materially adverse to our ability to successfully commercialize our product candidates at profitable price points.

We cannot predict the initiatives that may be adopted in the future. The continuing efforts of the government, insurance companies, managed care organizations and other payors of healthcare services to contain or reduce costs of healthcare and/or impose price controls may adversely affect:

- the demand for our product candidates, if we obtain regulatory approval;
- our ability to set a price that we believe is fair for our approved products;
- our ability to generate revenue and achieve or maintain profitability;
- the level of taxes that we are required to pay; and
- the availability of capital.

Any reduction in reimbursement from Medicare or other government programs may result in a similar reduction in payments from private payors, which may adversely affect our future profitability.

Individual states in the United States have also become increasingly active in passing legislation and implementing regulations designed to control pharmaceutical and biological product pricing, including price or patient reimbursement constraints, discounts, restrictions on certain drug access and marketing cost disclosure and transparency measures, and designed to encourage importation from other countries and bulk purchasing. Legally mandated price controls on payment amounts by third-party payors or other restrictions could harm our business, financial condition, results of operations and prospects. In addition, regional healthcare authorities and individual hospitals are increasingly using bidding procedures to determine what pharmaceutical products and which suppliers will be included in their prescription drug and other healthcare programs. This could reduce the ultimate demand for our drugs or put pressure on our drug pricing, which could negatively affect our business, financial condition, results of operations and prospects.

***Because we are developing product candidates in the field of genetic medicines in which there is little clinical experience, there is increased risk that the FDA, the EMA or other regulatory authorities may not consider the endpoints of our clinical trials to provide clinically meaningful results and that these results may be difficult to analyze.***

In order to proceed into clinical development of any product candidates we identify, we will need to submit INDs or clinical trial applications to regulatory authorities and obtain regulatory clearance to commence clinical development. Because the product candidates we identify are based on novel gene-editing technology, we may be unsuccessful in obtaining clearance from regulatory authorities to proceed into clinical development. In order to commence clinical development, we will need to identify success criteria and endpoints such that the FDA, the EMA or other regulatory authorities will be able to determine the clinical efficacy and safety profile of any product candidates we may develop. As we are initially seeking to identify and develop product candidates to treat diseases in which there is little clinical experience using new technologies, and while we may have opportunities to discuss our clinical development plans with regulatory authorities prior to commencing clinical development, there is heightened risk that the FDA, the EMA or other regulatory authorities may not consider the clinical trial endpoints that we propose to provide clinically meaningful results (reflecting a tangible benefit to patients). In addition, the resulting clinical data and results may be difficult to analyze. Even if the FDA does find our success criteria to be sufficiently validated and clinically meaningful, we may not achieve the pre-specified endpoints to a degree of statistical significance. This may be a particularly significant risk for many of the genetically defined diseases for which we plan to develop product candidates because many of these diseases such as Primary Hyperoxaluria Type 1 have small patient populations, and designing and executing a rigorous clinical trial with appropriate statistical power is more difficult than with diseases that have larger patient populations.

Furthermore, even if we do achieve the pre-specified criteria, we may produce results that are unpredictable or inconsistent with the results of the non-primary endpoints or other relevant data. The FDA also weighs the benefits of a product against its risks, and the FDA may view the efficacy results in the context of safety as not being supportive of regulatory approval. Other regulatory authorities in the European Union and other countries may make similar comments with respect to these endpoints and data. Any product candidates we may develop will be based on a novel technology that makes it difficult to predict the time and cost of development and of subsequently obtaining regulatory approval. No genome editing therapeutic product has been approved in the United States or in Europe. Within the broader genome product field, only a limited number of gene therapy products, such as uniQure N.V.'s Glybera and Abecma from Bristol Myers Squibb and bluebird bio, have received marketing authorization or regulatory approval from the European Commission or the FDA. Some of these products have taken years to register and have had to deal with significant issues in their post-marketing experience.

***If preclinical studies or clinical trials of any product candidates we may identify and develop fail to demonstrate safety and efficacy to the satisfaction of regulatory authorities or do not otherwise produce positive results, we may incur additional costs or experience delays in completing, or ultimately be unable to complete, the development and commercialization of such product candidates.***

Before obtaining regulatory approval from regulatory authorities for the sale of any product candidates we may identify and develop, we must complete preclinical development and then conduct extensive clinical trials to demonstrate the safety and efficacy in humans. Clinical testing is expensive, difficult to design and implement, can take many years to complete, and is uncertain as to outcome. A failure of one or more clinical trials can occur at any stage of testing. The outcome of preclinical testing and early clinical trials may not be predictive of the success of later clinical trials, and interim results of a clinical trial do not necessarily predict final results.

Moreover, preclinical and clinical data are often susceptible to varying interpretations and analyses. Many companies that have believed their product candidates performed satisfactorily in preclinical studies and clinical trials have nonetheless failed to obtain regulatory approval of their product candidates.

We and our collaborators, if any, may experience numerous unforeseen events during, or as a result of, clinical trials that could delay or prevent our ability to receive regulatory approval or commercialize any product candidates we may identify and develop, including:

- delays in reaching a consensus with regulators on trial design;
- regulators, IRBs, or independent ethics committees may not authorize us or our investigators to commence a clinical trial or conduct a clinical trial at a prospective trial site;
- delays in reaching or failing to reach agreement on acceptable clinical trial contracts or clinical trial protocols with prospective CROs and clinical trial sites;
- clinical trials of any product candidates we may develop may produce negative or inconclusive results, and we may decide, or regulators may require us, to conduct additional clinical trials or abandon product development or research programs;
- difficulty in designing well-controlled clinical trials due to ethical considerations which may render it inappropriate to conduct a trial with a control arm that can be effectively compared to a treatment arm;
- difficulty in designing clinical trials and selecting endpoints for diseases that have not been well-studied and for which the natural history and course of the disease is poorly understood;
- the number of patients required for clinical trials of any product candidates we may develop may be larger than we anticipate; enrollment of suitable participants in these clinical trials, which may be particularly challenging for some of the rare genetically defined diseases we are targeting in our most advanced programs, may be delayed or slower than we anticipate; or patients may drop out of these clinical trials at a higher rate than we anticipate;
- our third-party contractors may fail to comply with regulatory requirements or meet their contractual obligations to us in a timely manner, or at all;
- regulators, IRBs, or independent ethics committees may require that we or our investigators suspend or terminate clinical research or clinical trials of any product candidates we may develop for various reasons, including noncompliance with regulatory requirements, a finding of undesirable side effects or other unexpected characteristics, or that the participants are being exposed to unacceptable health risks or after an inspection of our clinical trial operations or trial sites;
- the cost of clinical trials of any product candidates we may develop may be greater than we anticipate;
- the supply or quality of any product candidates we may develop or other materials necessary to conduct preclinical studies or clinical trials of any product candidates we may develop may be insufficient or inadequate, including as a result of delays in the testing, validation, manufacturing, and delivery of any product candidates we may develop to the preclinical study sites or clinical sites by us or by third parties with whom we have contracted to perform certain of those functions;
- delays in having patients complete participation in a trial or return for post-treatment follow-up;
- clinical trial sites dropping out of a trial;
- selection of clinical endpoints that require prolonged periods of clinical observation or analysis of the resulting data;
- occurrence of serious adverse events associated with any product candidates we may develop that are viewed to outweigh their potential benefits;
- occurrence of serious adverse events in trials of the same class of agents conducted by other sponsors; and
- changes in regulatory requirements and guidance that require amending or submitting new clinical protocols.

If we or our collaborators are required to conduct additional clinical trials or other testing of any product candidates we may develop beyond those that we currently contemplate, if we or our collaborators are unable to successfully complete clinical trials or other testing of any product candidates we may develop, or if the results of these trials or tests are not positive or are only modestly positive or if there are safety concerns, we or our collaborators may:

- be delayed in obtaining regulatory approval for any such product candidates we may develop or not obtain regulatory approval at all;
- obtain approval for indications or patient populations that are not as broad as intended or desired;
- obtain approval with labeling that includes significant use or distribution restrictions or safety warnings, including boxed warnings;
- be subject to changes in the way the product is administered;
- be required to perform additional clinical trials to support approval or be subject to additional post-marketing testing requirements;
- have regulatory authorities withdraw, or suspend, their approval of the product or impose restrictions on its distribution in the form of a REMS, or through modification to an existing REMS;
- be sued; or
- experience damage to our reputation.

Product development costs will also increase if we or our collaborators experience delays in clinical trials or other testing or in obtaining regulatory approvals. We do not know whether any clinical trials will begin as planned, will need to be restructured, or will be completed on schedule, or at all. Significant clinical trial delays also could shorten any periods during which we may have the exclusive right to commercialize any product candidates we may develop, could allow our competitors to bring products to market before we do, and could impair our ability to successfully commercialize any product candidates we may develop, any of which may harm our business, financial condition, results of operations, and prospects.

***Even if we complete the necessary clinical trials, we cannot predict when, or if, we will obtain regulatory approval to commercialize a product candidate we may develop in the United States or any other jurisdiction, and any such approval may be for a more narrow indication than we seek.***

We cannot commercialize a product candidate until the appropriate regulatory authorities have reviewed and approved the product candidate. Even if our product candidates meet their safety and efficacy endpoints in clinical trials, the regulatory authorities may not complete their review processes in a timely manner, or we may not be able to obtain regulatory approval. Additional delays may result if an FDA advisory committee or other regulatory authority recommends non-approval or restrictions on approval. In addition, we may experience delays or rejections based upon additional government regulation from future legislation or administrative action, or changes in regulatory authority policy during the period of product development, clinical trials, and the review process.

Regulatory authorities also may approve a product candidate for more limited indications than requested or they may impose significant limitations in the form of narrow indications, warnings or a REMS. These regulatory authorities may require labeling that includes precautions or contraindications with respect to conditions of use, or may grant approval subject to the performance of costly post-marketing clinical trials. In addition, regulatory authorities may not approve the labeling claims that are necessary or desirable for the successful commercialization of our product candidates. Any of the foregoing scenarios could materially harm the commercial prospects for our product candidates and materially adversely affect our business, financial condition, results of operations, and prospects.

Regulatory approval by the FDA in the United States, if obtained, does not ensure approval by regulatory authorities in other countries or jurisdictions. In addition, clinical trials conducted in one country may not be accepted by regulatory authorities in other countries, and regulatory approval in one country does not guarantee regulatory approval in any other country. Approval processes vary among countries and can involve additional product candidate testing and validation and additional administrative review periods. Seeking regulatory approval outside the United States could result in difficulties and costs for us and require additional preclinical studies or clinical trials which could be costly and time-consuming. Regulatory requirements can vary widely from country to country and could delay or prevent the introduction of our product candidates in those countries. The foreign regulatory approval process involves all of the risks associated with FDA approval. We do not have any product candidates approved for sale in any jurisdiction, including international markets, and we do not have experience in obtaining regulatory approval in international markets. If we fail to comply with regulatory requirements in international markets or to obtain and maintain required approvals, or if regulatory approvals in international markets are delayed, our target market will be reduced and our ability to realize the full market potential of our product candidates will be unrealized.

***Even if we, or any of our collaborators or strategic partners, obtain regulatory approvals for any product candidates we may develop, the terms of approvals and ongoing regulation of such product candidates could require the substantial expenditure of resources and may limit how we, or they, manufacture and market such product candidates, which could materially impair our ability to generate revenue.***

Any product candidate for which we obtain regulatory approval, along with the manufacturing processes, post-approval clinical data, labeling, advertising and promotional activities for such product, will be subject to continual requirements of and review by the FDA, the EMA and other regulatory authorities. These requirements include submissions of safety and other post-marketing information and reports, facility registration and drug listing requirements, cGMP relating to quality control, quality assurance and corresponding maintenance of records and documents, applicable product tracking and tracing requirements and requirements regarding the distribution of samples to physicians and recordkeeping. In addition, our manufacturing and testing facilities will be required to undergo pre-license inspections and pre-approval inspections. Even if regulatory approval of a product candidate is granted, the approval may be subject to limitations on the indicated uses for which the products may be marketed or to the conditions of approval, or contain requirements for costly post-marketing testing and surveillance to monitor the safety or efficacy of the products.

Accordingly, assuming we, or any collaborators we may have, receive regulatory approval for one or more product candidates we develop, we, and such collaborators, and our and their contract manufacturers will continue to expend time, money and effort in all areas of regulatory compliance, including manufacturing, production, product surveillance and quality control. If we and such collaborators are not able to comply with post-approval regulatory requirements, we and such collaborators could have the regulatory approvals for our products withdrawn by regulatory authorities and our, or such collaborators', ability to market any future products could be limited, which could adversely affect our ability to achieve or sustain profitability. Furthermore, the cost of compliance with post-approval regulations may have a negative effect on our business, operating results, financial condition and prospects.

***We may not be able to obtain orphan drug designation or exclusivity for our potential product candidates, and even if we do, that designation may not provide an expedited development or regulatory review or approval process and any orphan drug exclusivity we may receive for approved products may not prevent the FDA or the EMA from approving other competing products.***

Under the Orphan Drug Act, the FDA may designate a product candidate as an orphan drug if it is a drug or biologic intended to treat a rare disease or condition. A similar regulatory scheme governs approval of orphan product candidates by the EMA in the European Union. Generally, if a product with an orphan drug designation subsequently receives the first regulatory approval for the indication for which it has such designation, the product is entitled to a period of marketing exclusivity, which precludes the FDA or the EMA (as applicable) from approving another marketing application for another similar product candidate for the same orphan therapeutic indication for that time period. The applicable period is seven years in the United States and ten years in the European Union. The exclusivity period in the European Union can be reduced to six years if at the end of the fifth year it is determined that a product no longer meets the criteria for orphan designation, including if the product is sufficiently profitable so that market exclusivity is no longer justified.

In order for the FDA to grant orphan drug exclusivity to one of our potential product candidates, the agency must find that the product candidate is indicated for the treatment of a condition or disease that affects fewer than 200,000 individuals in the United States or that affects 200,000 or more individuals in the United States and for which there is no reasonable expectation that the cost of developing and making the product candidate available for the disease or condition will be recovered from sales of the product in the United States. In the European Union, a medicinal product may be designated as orphan if (1) it is intended for the diagnosis, prevention or treatment of a life-threatening or chronically debilitating condition; (2) either (a) such condition affects no more than five in 10,000 persons in the European Union when the application is made, or (b) it is unlikely that the product, without the benefits derived from orphan status, would generate sufficient return in the European Union to justify the necessary investment in its development; and (3) there exists no satisfactory method of diagnosis, prevention or treatment of such condition authorized for marketing in the European Union, or if such a method exists, the product will be of significant benefit to those affected by the condition. The FDA or EMA may conclude that the condition or disease for which we seek orphan drug exclusivity does not meet this standard. Even if we obtain orphan drug exclusivity for a product candidate, that exclusivity may not effectively protect the product candidate from competition because different product candidates can be approved for the same condition. In addition, even after an orphan drug is approved, the FDA or EMA can subsequently approve the same product candidate for the same condition if the FDA or EMA (as applicable) concludes that the later product candidate is clinically superior in that it is shown to be safer, more effective or makes a major contribution to patient care compared with the product that has orphan exclusivity. Orphan drug exclusivity may also be lost if the FDA or EMA determines that the request for designation was materially defective or if the manufacturer is unable to assure sufficient quantity of the product to meet the needs of the patients with the rare disease or condition.

***We are subject to U.S. and certain foreign export and import controls, sanctions, embargoes, anti-corruption laws, and anti-money laundering laws and regulations. Compliance with these legal standards could impair our ability to compete in domestic and international markets. We can face criminal liability and other serious consequences for violations, which can harm our business.***

We are subject to export control and import laws and regulations, including the U.S. Export Administration Regulations, U.S. Customs regulations, various economic and trade sanctions regulations administered by the U.S. Treasury Department's Office of Foreign Assets Control, the U.S. Foreign Corrupt Practices Act of 1977, as amended (the "FCPA"), the U.S. domestic bribery statute contained in 18 U.S.C. § 201, the U.S. Travel Act, the USA PATRIOT Act, and other state and national anti-bribery and anti-money laundering laws in the countries in which we conduct activities. Anti-corruption laws are interpreted broadly and prohibit companies and their employees, agents, contractors, and other collaborators from authorizing, promising, offering, or providing, directly or indirectly, improper payments or anything else of value to recipients in the public or private sector. We may engage third parties to sell our products outside the United States, to conduct clinical trials, and/or to obtain necessary permits, licenses, patent registrations, and other regulatory approvals. We have direct or indirect interactions with officials and employees of government agencies or government-affiliated hospitals, universities, and other organizations. We can be held liable for the corrupt or other illegal activities of our employees, agents, contractors, and other collaborators, even if we do not explicitly authorize or have actual knowledge of such activities. Any violations of the laws and regulations described above may result in substantial civil and criminal fines and penalties, imprisonment, the loss of export or import privileges, debarment, tax reassessments, breach of contract and fraud litigation, reputational harm, and other consequences.

***If we or any contract manufacturers and suppliers we engage fail to comply with environmental, health, and safety laws and regulations, we could become subject to fines or penalties or incur costs that could have a material adverse effect on the success of our business.***

We and any contract manufacturers and suppliers we engage are subject to numerous federal, state, and local environmental, health, and safety laws, regulations, and permitting requirements, including those governing laboratory procedures; the generation, handling, use, storage, treatment, and disposal of hazardous and regulated materials and wastes; the emission and discharge of hazardous materials into the ground, air, and water; and employee health and safety. Our operations involve the use of hazardous and flammable materials, including chemicals and biological materials. Our operations also produce hazardous waste. We generally contract with third parties for the disposal of these materials and wastes. We cannot eliminate the risk of contamination or injury from these materials. In the event of contamination or injury resulting from our use of hazardous materials, we could be held liable for any resulting damages, and any liability could exceed our resources. Under certain environmental laws, we could be held responsible for costs relating to any contamination at our current or past facilities and at third-party facilities. We also could incur significant costs associated with civil or criminal fines and penalties.

Compliance with applicable environmental laws and regulations may be expensive, and current or future environmental laws and regulations may impair our research and product development efforts. In addition, we cannot entirely eliminate the risk of accidental injury or contamination from these materials or wastes. Although we maintain workers' compensation insurance to cover us for costs and expenses we may incur due to injuries to our employees resulting from the use of hazardous materials, this insurance may not provide adequate coverage against potential liabilities. We carry pollution insurance to protect against possible biological or hazardous waste accidents. However, in the event of contamination or injury, we could be held liable for damages or be penalized with fines in an amount exceeding our resources, and our clinical trials or regulatory approvals could be suspended, which could have a material adverse effect on our business, financial condition, results of operations, and prospects.

In addition, we may incur substantial costs in order to comply with current or future environmental, health, and safety laws, regulations, and permitting requirements. These current or future laws, regulations, and permitting requirements may impair our research, development, or production efforts. Failure to comply with these laws, regulations, and permitting requirements also may result in substantial fines, penalties, or other sanctions or business disruption, which could have a material adverse effect on our business, financial condition, results of operations, and prospects.

Any third-party contract manufacturers and suppliers we engage will also be subject to these and other environmental, health, and safety laws and regulations. Liabilities they incur pursuant to these laws and regulations could result in significant costs or an interruption in operations, which could have a material adverse effect on our business, financial condition, results of operations, and prospects.

***Our employees, principal investigators, consultants and commercial partners may engage in misconduct or other improper activities, including non-compliance with regulatory standards and requirements and insider trading.***

We are exposed to the risk of fraud or other misconduct by our employees, consultants and commercial partners, and, if we commence clinical trials, our principal investigators. Misconduct by these parties could include intentional failures to comply with FDA regulations or the regulations applicable in the European Union and other jurisdictions, provide accurate information to the FDA, the EMA and other regulatory authorities, comply with healthcare fraud and abuse laws and regulations in the United States and abroad, report financial information or data accurately or disclose unauthorized activities to us. In particular, sales, marketing and business arrangements in the healthcare industry are subject to extensive laws and regulations intended to prevent fraud, misconduct, kickbacks, self-dealing and other abusive practices. These laws and regulations restrict or prohibit a wide range of pricing, discounting, marketing and promotion, sales commission, customer incentive programs and other business arrangements. Such misconduct also could involve the improper use of information obtained in the course of clinical trials or interactions with the FDA, the EMA or other regulatory authorities, which could result in regulatory sanctions and cause serious harm to our reputation. We are also exposed to risks in connection with any insider trading violations by employees or others affiliated with us.

We have adopted a code of conduct and an insider trading policy applicable to all of our employees, but it is not always possible to identify and deter employee misconduct, and the precautions we take to detect and prevent this activity may not be effective in controlling unknown or unmanaged risks or losses or in protecting us from government investigations or other actions or lawsuits stemming from a failure to comply with these laws or regulations. If any such actions are instituted against us, and we are not successful in defending ourselves or asserting our rights, those actions could have a significant impact on our business, financial condition, results of operations and prospects, including the imposition of significant fines or other sanctions.

***Product liability lawsuits against us could cause us to incur substantial liabilities and could limit commercialization of any product candidates that we may develop.***

We will face an inherent risk of product liability exposure related to the testing of any product candidates we may develop in human clinical trials and will face an even greater risk if we commercially sell such product candidates. If we cannot successfully defend ourselves against claims that our product candidates caused injuries, we could incur substantial liabilities. Regardless of merit or eventual outcome, liability claims may result in:

- decreased demand for any product candidates that we may develop;
- injury to our reputation and significant negative media attention;
- withdrawal of clinical trial participants;
- significant costs to defend the related litigation;
- substantial monetary awards to trial participants or patients;
- loss of revenue; and
- the inability to commercialize any product candidates that we may develop.

We anticipate that we will need to increase our insurance coverage when we begin clinical trials and if we successfully commercialize any product candidate. Insurance coverage is increasingly expensive. We may not be able to maintain insurance coverage at a reasonable cost or in an amount adequate to satisfy any liability that may arise.

***Our internal computer and information technology systems, or those of our third-party vendors, collaborators, contractors, consultants or other third parties, may fail, become unavailable, or suffer security incidents or data breaches, loss or leakage of data and other disruptions, which could result in a material disruption of our product development programs, compromise confidential, sensitive or personal information related to our business or prevent us from accessing critical information, potentially exposing us to liability or otherwise adversely affecting our business.***

Our internal computer and information technology systems and those of our current and any future third-party vendors, collaborators, contractors, consultants or other third parties, are vulnerable to damage or interruption from, among other things, malicious uses of AI, computer viruses, computer hackers, social engineering attacks (including phishing attacks), ransomware, malware, social engineering, service interruptions, system malfunction, malicious code, employee theft, fraud, misconduct or misuse, denial-of-service attacks, sophisticated nation-state and nation-state-supported actors, wrongful conduct by insider employees or vendors, unauthorized access, natural disasters, terrorism, war and telecommunication and electrical failures. While we seek to protect our information technology systems from system failure, accident and cybersecurity incidents or data breaches, we and our third-party vendors, like other companies in our industry, have in the past and may in the future experience cybersecurity incidents which could result in a disruption of our development programs and our business operations, whether due to a loss of our trade secrets or other proprietary, personal or confidential information or other disruptions. For example, the loss of clinical trial data from future clinical trials could result in delays in our regulatory approval efforts and significantly increase our costs to recover or reproduce the data.

Controls employed by our information technology department and other third parties could prove inadequate, and our ability to monitor such third parties' data security practices is limited. Due to applicable laws, rules, regulations and standards or contractual obligations, we may be held responsible for any information security failure or cybersecurity attack attributed to our third-party vendors as they relate to the information we share with them.

If we were to experience a cybersecurity incident, data breach, or other security event relating to our information systems or data, the costs, time and effort associated with the investigation, remediation and potential notification of the breach to counterparties, regulators and data subjects could be material. We may incur significant costs in an effort to detect and prevent security incidents or data breaches, and we may face increased costs and requirements to expend substantial resources in the event of an actual or perceived security incident or data breach. In addition, techniques used to sabotage or to obtain unauthorized access to networks in which data is stored or through which data is transmitted change frequently, become more complex over time and generally are not recognized until launched against a target. The risk of a cybersecurity incident, data breach, or other security event, particularly through cyberattacks including supply chain attacks or cyber intrusion, including by computer hackers, foreign governments, and cyber terrorists, has generally increased as the number, intensity, and sophistication of attempted attacks and intrusions from around the world have increased. These attacks and activity are also being facilitated or enhanced by evolving technologies, including AI. As a result, we and our third-party vendors may be unable to anticipate these techniques or implement adequate preventative measures quickly enough to prevent either an electronic intrusion into our systems or services or a compromise of critical information. We cannot guarantee that we will be able to detect or prevent any such incidents, and our remediation efforts may not be successful or timely. Our efforts to improve security and protect data from compromise may also identify previously undiscovered instances of data breaches or other cybersecurity incidents. If we do not allocate and effectively manage the resources necessary to build and sustain the proper technology and cybersecurity infrastructure, we could suffer significant business disruption, including transaction errors, supply chain or manufacturing interruptions, processing inefficiencies, data loss or the loss of or damage to intellectual property or other proprietary, personal or confidential information.

To the extent that any cybersecurity incident, data breach, or other security event were to result in a loss of, or damage to, our or our third-party vendors', collaborators', contractors', consultants' or other third parties' data, including personal information, or applications or inappropriate disclosure, loss, destruction or alteration of, or access to, confidential, personal or proprietary information, we would be required to notify affected stakeholders and could incur significant liability including litigation exposure, substantial penalties and fines, we could become the subject of regulatory action, inquiry or investigation, our competitive position could be harmed, we could incur significant reputational damage and the further development and commercialization of any product candidates we may develop could be delayed. Our contracts may not contain limitations of liability, and even where they do, there can be no assurance that limitations of liability in our contracts are sufficient to protect us from liabilities, damages, or claims related to our privacy and data security obligations. Cyber liability insurance may not provide adequate coverage against potential liabilities related to any experienced cybersecurity incident or breach. Any of the above could have a material adverse effect on our business, financial condition, results of operations or prospects.

***Laws and regulations governing any international operations we may have in the future may preclude us from developing, manufacturing and selling certain product candidates we may identify outside of the United States and require us to develop and implement costly compliance programs.***

We are subject to numerous laws and regulations in each jurisdiction outside the United States in which we operate. The creation, implementation and maintenance of international business practices compliance programs is costly and such programs are difficult to enforce, particularly where reliance on third parties is required.

The FCPA prohibits any U.S. individual or business from paying, offering, authorizing payment or offering of anything of value, directly or indirectly, to any foreign official, political party or candidate for the purpose of influencing any act or decision of the foreign entity in order to assist the individual or business in obtaining or retaining business. The FCPA also obligates companies whose securities are listed in the United States to comply with certain accounting provisions requiring the company to maintain books and records that accurately and fairly reflect all transactions of the corporation, including international subsidiaries, and to devise and maintain an adequate system of internal accounting controls for international operations. The anti-bribery provisions of the FCPA are enforced primarily by the Department of Justice. The SEC is involved with enforcement of the books and records provisions of the FCPA.

Similarly, the U.K. Bribery Act 2010 has extra-territorial effect for companies and individuals having a connection with the United Kingdom. The U.K. Bribery Act prohibits inducements both to public officials and private individuals and organizations. Compliance with the FCPA and the U.K. Bribery Act is expensive and difficult, particularly in countries in which corruption is a recognized problem. In addition, the FCPA presents particular challenges in the pharmaceutical industry, because, in many countries, hospitals are operated by the government, and doctors and other hospital employees are considered foreign officials. Certain payments to hospitals in connection with clinical trials and other work have been deemed to be improper payments to government officials and have led to FCPA enforcement actions.

Various laws, regulations and executive orders also restrict the use and dissemination outside of the United States, or the sharing with certain non-U.S. nationals, of information classified for national security purposes, as well as certain products and technical data relating to those products. Our expansion outside of the United States has required, and will continue to require, us to dedicate additional resources to comply with these laws, and these laws may preclude us from developing, manufacturing or selling certain drugs and drug candidates outside of the United States, which could limit our growth potential and increase our development costs. The failure to comply with laws governing international business practices may result in substantial penalties, including suspension or debarment from government contracting. Violation of the FCPA can result in significant civil and criminal penalties. Indictment alone under the FCPA can lead to suspension of the right to do business with the U.S. government until the pending claims are resolved. Conviction of a violation of the FCPA can result in long-term disqualification as a government contractor. The termination of a government contract or relationship as a result of our failure to satisfy any of our obligations under laws governing international business practices would have a negative impact on our operations and harm our reputation and ability to procure government contracts. The SEC also may suspend or bar issuers from trading securities on U.S. exchanges for violations of the FCPA's accounting provisions.

***We are subject to stringent and often unsettled laws, rules, regulations, policies, standards and contractual obligations related to data privacy and security and changes in such laws, rules, regulations, policies, standards and contractual obligations could adversely affect our business.***

We are subject to data privacy and protection laws, rules, regulations, policies, standards and contractual obligations that apply to the collection, transmission, storage, use, disclosure, transfer, maintenance and other processing of sensitive, personal and personally-identifying information, which, among other things, impose certain requirements relating to the privacy, security, transmission and other processing of personal information, including comprehensive regulatory systems in the United States and European Union. The legislative and regulatory landscape for privacy and data protection continues to evolve in jurisdictions worldwide, and there has been an increasing focus on privacy and data protection issues with the potential to affect our business. However, our data privacy program is in its early stages and we have not yet assessed the applicability of and our compliance with data privacy-related laws, rules and regulations. As a result, we cannot guarantee that we are and have been in compliance with all applicable data privacy and protection laws, rules regulations, policies and standards, and we may need to expend significant resources to implement privacy compliance measures. Additionally, we rely on certain third-party vendors to process certain confidential, sensitive or personal information on our behalf. Failure by us or our third-party vendors to comply with any of these laws, rules, regulations, contractual obligations or standards could result in notification obligations, enforcement actions, regulatory investigations or inquiries, significant fines, imprisonment of company officials and public censure, litigation and claims for damages by affected individuals, customers or business partners, damage to our reputation and loss of goodwill, any of which could have a material adverse effect on our business, financial condition, results of operations or prospects.

There are numerous U.S. federal and state laws, rules and regulations related to the collection, use, disclosure and security of personal information.

Additionally, laws in all 50 states require businesses to provide notice to customers whose personally identifiable information has been disclosed as a result of a data breach. These laws are not consistent, and compliance in the event of a widespread data breach is difficult and may be costly. Moreover, states have been frequently amending existing laws, requiring attention to changing regulatory requirements. We also may be contractually required to notify patients or other counterparties of a cybersecurity incident or data breach. Although we may have contractual protections with our service providers, any actual or perceived cybersecurity incident or data breach could harm our reputation and brand, expose us to potential liability or require us to expend significant resources on data security and in responding to any such actual or perceived cybersecurity incident or data breach. Any contractual protections we may have from our service providers may not be sufficient to adequately protect us from any such liabilities and losses, and we may be unable to enforce any such contractual protections. In addition to government regulation, privacy advocates and industry groups have and may in the future propose self-regulatory standards from time to time. These and other industry standards may legally or contractually apply to us, or we may elect to comply with such standards. Determining whether personal information has been handled in compliance with applicable privacy standards and our contractual obligations can be complex and may be subject to changing interpretation.

Data privacy remains an evolving landscape at both the domestic and international level, with new laws, rules and regulations coming into effect and continued legal challenges. At the federal level, regulations promulgated pursuant to the Health Insurance Portability and Accountability Act of 1996 (“HIPAA”), establish privacy and security standards that limit the use and disclosure of individually identifiable health information, or protected health information, and require the implementation of administrative, physical and technological safeguards to protect the privacy of protected health information and ensure the confidentiality, integrity and availability of electronic protected health information. The Genetic Information Nondiscrimination Act of 2008 (“GINA”), which clarified that genetic information is protected under HIPAA and restricts the use and disclosure of genetic information. In addition, certain state laws govern privacy and security of personal information. Further, failing to take appropriate steps to keep consumers’ personal information secure may constitute unfair acts or practices in or affecting commerce in violation of Section 5(a) of the Federal Trade Commission Act (the FTCA), 15 U.S.C § 45(a). The FTC expects a company’s data security measures to be reasonable and appropriate in light of the sensitivity and volume of consumer information it holds, the size and complexity of its business and the cost of available tools to improve security and reduce vulnerabilities. Further, through executive and legislative action, the federal government has also taken steps to restrict data transactions involving certain sensitive data categories – including health data, genetic data, and biospecimens – with persons affiliated with China, Russia, and other countries of concern.

Certain state laws also govern the privacy and security of personal information. For example, California enacted the California Consumer Privacy Act of 2018 (“CCPA”), which went into effect on January 1, 2020 and, among other things, required companies that process information on California residents to make new disclosures to consumers about their data collection, use and sharing practices, allowed consumers to opt out of certain data sharing with third parties and provided a new cause of action for data breaches. Additionally, California voters approved the California Privacy Rights Act (“CPRA”), which went into effect on January 1, 2023. The CPRA significantly modified the CCPA, including by introducing additional obligations such as data minimization and storage limitations and granting additional rights to California residents such as correction of personal information and additional opt-out rights. The CPRA also created a new state agency that has been vested with authority to implement and enforce the CCPA and the CPRA.

The enactment of the CCPA has prompted a wave of similar legislative developments in other states and at the federal level, reflecting a trend toward more stringent privacy legislation in the United States. For example, similar laws have been passed in numerous other states. Other states have proposed similar laws, if enacted, may add additional complexity, variation in requirements, restrictions and potential legal risk, require additional investment of resources in compliance programs, impact strategies and the availability of previously useful data and could result in increased compliance costs and/or changes in business practices and policies. Certain state laws may be more stringent or broader in scope, or offer greater individual rights, with respect to confidential, sensitive and personal information than federal, international or other state laws, and such laws may differ from each other, which may complicate compliance efforts. The existence of comprehensive privacy laws in different states in the country would make our compliance obligations more complex and costly and may increase the likelihood that we may be subject to enforcement actions or otherwise incur liability for noncompliance.

There are also states that are specifically regulating health information. For example, Washington’s My Health My Data Act, which became effective on March 31, 2024, regulates the collection and sharing of health information and has a private right of action, which further increases the relevant compliance risk. Connecticut and Nevada have also passed similar laws regulating consumer health data. In addition, other states have proposed and/or passed legislation that regulates the privacy and/or security of certain specific types of information. For example, a small number of states have passed laws that regulate biometric data specifically. These various privacy and security laws may impact our business activities, including our identification of research subjects, relationships with business partners and ultimately the marketing and distribution of our products. State laws are changing rapidly and there is discussion in the U.S. Congress of a new comprehensive federal data privacy law to which we may likely become subject, if enacted.

In addition, our operations may be subject to European data privacy laws, regulations and guidelines. The collection, use, storage, disclosure, transfer, or other processing of personal information regarding individuals in the EEA and UK, including personal health data, is subject to the EU General Data Protection Regulation, or EU GDPR, with respect to the EEA and the UK General Data Protection Regulation and UK Data Protection Act 2018 with respect to the UK, or UK GDPR, and collectively with the EU GDPR referred to as the “GDPR” in this document unless specified otherwise. The GDPR is wide-ranging in scope and imposes numerous requirements on companies that process personal information, including requirements relating to processing of special categories of personal information (such as health data), relying on a legal basis or condition for processing personal information, where required obtaining consent of the individuals to whom the personal information relates, providing information to individuals regarding data processing activities, conducting privacy impact assessments for “high risk” processing, implementing safeguards to protect the security and confidentiality of personal information, implementing limitations on the retention of personal information, providing mandatory notification of data breaches, and taking certain measures when engaging third-party processors. The GDPR also imposes strict rules on the transfer of personal information to countries outside the EEA and UK to non-adequate territories, including the United States in certain circumstances unless derogation exists or a valid GDPR transfer mechanism (for example, the European Commission approved Standard Contractual Clauses, or SCCs, and the UK International Data Transfer Agreement/Addendum, or UK IDTA) have been put in place. Where relying on the SCCs /UK IDTA for data transfers, we may also be required to carry out transfer impact assessments to assess whether the recipient is subject to local laws which allow public authority access to personal information. Failure to comply with the GDPR, and any supplemental EEA Member State or UK national data protection laws which may apply by virtue of the location of the individuals whose personal information we collect, may result in substantial penalties, including potential fines of up to €20 million (£17.5 million for the UK GDPR) or 4% of annual global revenues for the preceding financial year, whichever is greater. The GDPR also confers a private right of action on data subjects and consumer associations to lodge complaints with supervisory authorities, seek judicial remedies, and obtain compensation for damages resulting from violations of the GDPR. The GDPR increases our responsibility and liability in relation to personal information that we process where such processing is subject to the GDPR, and requires us to put in place additional mechanisms to ensure compliance with the GDPR, including as implemented by individual countries. Compliance with the GDPR will be a rigorous and time-intensive process that may increase our cost of doing business or require us to change our business practices, and despite those efforts, there is a risk that we may be subject to fines and penalties, litigation, and reputational harm in connection with our European activities.

Although the EU GDPR and the UK GDPR currently impose substantially similar obligations, it is possible that over time the UK GDPR could become less aligned with the EU GDPR. The UK Government has introduced a Data Protection and Digital Information Bill to reform the UK data protection legal framework which failed in the UK legislative process. A new Data (Use and Access) Bill (“UK Bill”) has been introduced into parliament. If passed, the final version of the UK Bill may have the effect of further altering the similarities between the UK and EEA data protection regime and threaten the UK Adequacy Decision from the European Commission, or EC. Further, this may lead to additional compliance costs and could increase our overall risk. In addition, EEA Member States have adopted national laws which may partially deviate from the EU GDPR, and the competent authorities in the EEA Member States may interpret EU GDPR obligations slightly differently from country to country, such that we do not expect to operate in a uniform legal landscape in the EEA. Also, as it relates to processing and transfer of genetic data, the GDPR specifically allows national laws to impose additional and more specific requirements or restrictions, and European laws have historically differed quite substantially in this field, leading to additional uncertainty. This possible divergence in the future creates additional regulatory challenges and uncertainties for us. The lack of clarity on future UK laws and regulations and their interaction with EU laws and regulations could add legal risk, uncertainty, complexity and compliance cost to the handling of European personal information and our privacy and data security compliance.

Our efforts to comply with the evolving data protection laws, rules and regulations may be unsuccessful. It is possible that these laws, rules and regulations may be interpreted and applied in a manner that is inconsistent with our practices and our efforts to comply with the evolving data protection rules may be unsuccessful. The laws are not consistent, and compliance in the event of a widespread cybersecurity incident or data breach is costly and time-consuming. States are also frequently amending existing laws, requiring attention to frequently changing regulatory requirements. We must devote significant resources to understanding and complying with this changing landscape. All of these evolving compliance and operational requirements impose significant costs, such as costs related to organizational changes, implementing additional protection technologies, training employees and engaging consultants and legal advisors, which are likely to increase over time. In addition, such requirements may require us to modify our data processing practices and policies, utilize management's time and/or divert resources from other initiatives and projects.

If we are unable to properly protect the privacy and security of personal information, we could be alleged or actually found to have breached our contracts. Furthermore, if we fail to comply with applicable privacy laws, including applicable HIPAA privacy and security standards, we could face significant administrative, civil and criminal penalties. HHS has the discretion to impose penalties without attempting to resolve violations through informal means, and such enforcement activity can result in financial liability and reputational harm, and responses to such enforcement activity can consume significant internal resources. In addition, state attorneys general are authorized to bring civil actions seeking either injunctions or damages in response to violations that threaten the privacy or security of the personal information of state residents. We cannot be sure how these laws, rules and regulations will be interpreted, enforced or applied to our operations. In addition to the risks associated with enforcement activities and potential contractual liabilities, our ongoing efforts to comply with evolving laws, rules and regulations at the international, federal and state level may be costly and require ongoing modifications to our policies, procedures and systems.

We make public statements about our use, collection, disclosure and other processing of personal information through our privacy policies and information provided on our website. Although we endeavor to comply with our public statements and documentation, we may at times fail to do so or be alleged to have failed to do so. The publication of our privacy policies and other statements that provide promises and assurances about data privacy and security can subject us to potential government or legal action if they are found to be deceptive, unfair or misrepresentative of our actual practices.

Failure by us or our third-party vendors to comply with laws, rules and regulations regarding data privacy and protection would expose us to risk of enforcement actions taken by data protection authorities and carries with it the potential for significant penalties if we are found to be non-compliant. Similarly, failure to comply with federal and state laws, rules and regulations in the United States regarding privacy and security of personal information could expose us to penalties under such laws, rules and regulations. Any such failure by us or our third-party vendors to comply with data protection and privacy laws, rules and regulations could result in significant government-imposed fines or orders requiring that we change our practices, claims for damages or other liabilities, regulatory investigations and enforcement action, litigation and significant costs for remediation, any of which could adversely affect our business. Even if we are not determined to have violated these laws, rules or regulations, government investigations into these issues typically require the expenditure of significant resources and generate negative publicity, which could harm our business, financial condition, results of operations or prospects.

### **Risks Related to Third Party Relationships**

***If conflicts arise between us and our collaborators or strategic partners, these parties may act in a manner adverse to us and could limit our ability to implement our strategies.***

If conflicts arise between our collaborators and corporate or strategic partners and us, the other party may act in a manner adverse to us and could limit our ability to implement our strategies. Some of our collaborators and strategic partners are conducting multiple product development efforts within each area that is the subject of the collaboration with us. Our collaborators or strategic partners, however, may develop, either alone or with others, products in related fields that are competitive with the product candidates we may develop that are the subject of these collaborations with us. Competing products, either developed by the collaborators or strategic partners or to which the collaborators or strategic partners have rights, may result in the withdrawal of partner support for any product candidates we may develop.

Additionally, some of our collaborators or strategic partners could also become our competitors in the future. Our collaborators or strategic partners could develop competing products, preclude us from entering into collaborations with their competitors, fail to obtain timely regulatory approvals, prevent us from obtaining timely regulatory approvals, terminate their agreements with us prematurely or fail to devote sufficient resources to the collaboration efforts, including development, delivery, manufacturing and commercialization of products. Any of these developments could harm our company and product development efforts.

***We have entered into collaborations, and may enter into additional collaborations, with third parties for the research, development, manufacture and commercialization of programs or product candidates. If these collaborations are not successful, our business could be adversely affected.***

As part of our strategy, we have entered into collaborations and intend to seek to enter into additional collaborations with third parties for one or more of our programs or product candidates we may develop. For example, in November 2022, we entered into a Collaboration and License Agreement with Ionis Pharmaceuticals, Inc. (“Ionis”) to research, develop and commercialize investigational medicines using our genome editing technologies. Our likely collaborators for any other collaboration arrangements include large and mid-size pharmaceutical companies, regional and national pharmaceutical companies and biotechnology companies. We have under these agreements, and we may have under any other arrangements that we may enter into with any third parties, limited control over the amount and timing of resources that collaborators dedicate to the development or commercialization of our product candidates. Our ability to generate revenue from these arrangements may depend on our collaborators’ abilities to successfully perform the functions assigned to them in these arrangements.

Collaborations that we enter into may not be successful, and any success will depend heavily on the efforts and activities of such collaborators. Collaborations pose a number of risks, including the following:

- collaborators have significant discretion in determining the amount and timing of efforts and resources that they will apply to these collaborations;
- collaborators may not perform their obligations as expected;
- collaborators may not pursue development of our product candidates or may elect not to continue or renew development programs based on results of clinical trials or other studies, changes in the collaborators’ strategic focus or available funding, or external factors, such as an acquisition, that divert resources or create competing priorities;
- collaborators may not pursue commercialization of any product candidates that achieve regulatory approval or may elect not to continue or renew commercialization programs based on results of clinical trials or other studies, changes in the collaborators’ strategic focus or available funding, or external factors, such as an acquisition, that may divert resources or create competing priorities;
- collaborators may delay preclinical studies and clinical trials, provide insufficient funding for a preclinical study or clinical trial program, stop a preclinical study or clinical trial or abandon a product candidate, repeat or conduct new preclinical studies or clinical trials or require a new formulation of a product candidate for preclinical or clinical testing;
- we may not have access to, or may be restricted from disclosing, certain information regarding product candidates being developed or commercialized under a collaboration and, consequently, may have limited ability to inform our stockholders about the status of such product candidates on a discretionary basis;
- collaborators could independently develop, or develop with third parties, products that compete directly or indirectly with our product candidates and products if the collaborators believe that the competitive products are more likely to be successfully developed or can be commercialized under terms that are more economically attractive than ours;
- product candidates discovered in collaboration with us may be viewed by our collaborators as competitive with their own product candidates or products, which may cause collaborators to cease to devote resources to the commercialization of our product candidates;
- a collaborator may fail to comply with applicable regulatory requirements regarding the development, manufacture, distribution or marketing of a product candidate or product;
- a collaborator with marketing and distribution rights to one or more of our product candidates that achieve regulatory approval may not commit sufficient resources to the marketing and distribution of such product or products;
- disagreements with collaborators, including disagreements over intellectual property or proprietary rights, contract interpretation or the preferred course of development, might cause delays or terminations of the research, development or commercialization of product candidates, might lead to additional responsibilities for us with respect to product candidates, or might result in litigation or arbitration, any of which would be time-consuming and expensive;
- collaborators may not properly obtain, maintain, enforce, defend or protect our intellectual property or proprietary rights or may use our proprietary information in such a way as to potentially lead to disputes or legal proceedings that could jeopardize or invalidate our intellectual property or proprietary information or expose us to potential litigation;
- disputes may arise with respect to the ownership of intellectual property or other rights developed pursuant to our collaborations;

- collaborators may infringe, misappropriate or otherwise violate the intellectual property or proprietary rights of third parties, which may expose us to litigation and potential liability; and
- collaborations may be terminated for the convenience of the collaborator, and, if terminated, we could be required to raise additional capital to pursue further development or commercialization of the applicable product candidates.

Collaboration agreements may not lead to development or commercialization of product candidates in the most efficient manner, or at all. If any current or future collaborations do not result in the successful development and commercialization of products or if one of our collaborators terminates its agreement with us, we may not receive any future research funding or milestone or royalty payments under the collaboration. If we do not receive the funding we expect under these agreements, our development of our product candidates could be delayed and we may need additional resources to develop our product candidates. All of the risks relating to product development, regulatory approval and commercialization described in this Annual Report on Form 10-K also apply to the activities of our collaborators.

Collaboration agreements may require us to incur non-recurring and other charges, increase our near- and long-term expenditures, issue securities that dilute our existing stockholders, or disrupt our management and business. For more information, see the section titled “Business—Our License and Collaboration Agreements.”

We could face significant competition in seeking appropriate collaborators, and the negotiation process is time-consuming and complex. Our ability to reach a definitive collaboration agreement will depend, among other things, upon our assessment of the collaborator’s resources and expertise, the terms and conditions of the proposed collaboration, and the proposed collaborator’s evaluation of several factors. If we license rights to any product candidates we or our collaborators may develop, we may not be able to realize the benefit of such transactions if we are unable to successfully integrate them with our existing operations and company culture.

We may also be restricted under existing collaboration agreements from entering into future collaboration agreements on certain terms with potential collaborators. In addition, there have been a significant number of recent business combinations among large pharmaceutical companies that have resulted in a reduced number of potential future collaborators, which further increases competition we face in seeking potential collaborations.

Additionally, subject to its contractual obligations to us, if a collaborator of ours is involved in a business combination, the collaborator might deemphasize or terminate the development or commercialization of any product candidate licensed to it by us. If one of our collaborators terminates its agreement with us, we may find it more difficult to attract new collaborators and our perception in the business and financial communities could be adversely affected.

***Our collaborators and strategic partners may control aspects of our clinical trials, which could result in delays and other obstacles in the commercialization of our proposed products and materially harm our results of operations.***

For some programs, we will depend on third party collaborators and strategic partners to design and conduct our clinical trials. As a result, we may not be able to conduct these programs in the manner or on the time schedule we currently contemplate, which may negatively impact our business operations. In addition, if any of these collaborators or strategic partners withdraw support for our programs or proposed products or otherwise impair their development, our business could be negatively affected.

In November 2022, we entered into a Collaboration and License Agreement with Ionis to research, develop and commercialize investigational medicines for up to eight potential genetic targets using genome editing technologies. Our lack of control over the clinical development in our agreement with Ionis could cause delays or other difficulties in the development and commercialization of product candidates, which may prevent completion of intended IND applications in a timely fashion, if at all.

In addition, the termination of these agreements would prevent us from receiving any milestone, royalty payments and other benefits under that agreement, which would have a materially adverse effect on our results of operations.

***Our collaborators or strategic partners may decide to adopt alternative technologies or may be unable to develop commercially viable products with our technology, which would negatively impact our revenues and our strategy to develop these products.***

Our collaborators or strategic partners may adopt alternative technologies, which could decrease the marketability of our genome editing technology. Additionally, because our current or future collaborators or strategic partners are likely to be working on more than one development project, they could choose to shift their resources to projects other than those they are working on with us. If they do so, this would delay our ability to test our technology and would delay or terminate the development of potential products based on our genome editing technology. Further, our collaborators and strategic partners may elect not to develop products arising out of our collaborative and strategic partnering arrangements or to devote sufficient resources to the development, manufacturing, marketing or sale of these products. The failure to develop and commercialize a product candidate pursuant to our agreements with our current or future collaborators would prevent us from receiving future milestone and royalty payments which would negatively impact our revenues.

***We expect to rely on third parties to conduct our clinical trials and some aspects of our research, as well as some aspects of our delivery methods, and those third parties may not perform satisfactorily, including failing to meet deadlines for the completion of such trials, research or testing.***

We expect to rely on third parties, such as CROs, clinical data management organizations, medical institutions, preclinical laboratories and clinical investigators, to conduct some aspects of our research. For example, we may rely on a third party to supply LNPs or AAVs, or to conduct our preclinical animal experiments. Any of these third parties may terminate their engagements with us at any time under certain criteria. If we need to enter into alternative arrangements, it may delay our product development activities.

Our reliance on these third parties for clinical research and other development activities will reduce our control over these activities but will not relieve us of our responsibilities. For example, we will remain responsible for ensuring that each of our clinical trials is conducted in accordance with the general investigational plan and protocols for the trial. Moreover, the FDA, the EMA and other regulatory authorities require us and the study sites and investigators we work with to comply with standards, commonly referred to as GLPs and GCPs for conducting, recording and reporting the results of preclinical studies and clinical trials to assure, amongst other things, that data and reported results are credible and accurate and that the rights, integrity and confidentiality of trial participants are protected. In the United States, we also are required to register certain clinical trials and post the results of completed clinical trials on a government-sponsored database, ClinicalTrials.gov, within certain timeframes. Failure to do so can result in fines, adverse publicity and civil and criminal sanctions.

Although we intend to design the preclinical studies and clinical trials for our potential product candidates, CROs will conduct some or all of the preclinical studies and clinical trials. As a result, many important aspects of our development programs, including their conduct and timing, will be outside of our direct control. Our reliance on third parties to conduct preclinical studies and future clinical trials will also result in less direct control over the management of data developed through preclinical studies and clinical trials than would be the case if we were relying entirely upon our own staff. Communicating with outside parties can also be challenging, potentially leading to mistakes as well as difficulties in coordinating activities. Among other reasons that may delay or impact the development of our potential product candidates, outside parties may:

- have staffing difficulties;
- fail to comply with contractual obligations;
- experience regulatory compliance issues;
- undergo changes in priorities or become financially distressed; or
- form relationships with other entities, some of which may be our competitors.

These factors may materially adversely affect the willingness or ability of third parties to conduct our preclinical studies and clinical trials and may subject us to unexpected cost increases that are beyond our control. If the CROs and other third parties do not perform such preclinical studies and future clinical trials in a satisfactory manner, breach their obligations to us or fail to comply with regulatory requirements, the development, regulatory approval and commercialization of our potential product candidates may be delayed, we may not be able to obtain regulatory approval and commercialize our potential product candidates or our development programs may be materially and irreversibly harmed. If we are unable to rely on preclinical and clinical data collected by our CROs and other third parties, we could be required to repeat, extend the duration of or increase the size of any preclinical studies or clinical trials we conduct and this could significantly delay commercialization and require greater expenditures.

We may also expect to rely on other third parties to store and distribute drug supplies for our future clinical trials. Any performance failure on the part of our distributors could delay clinical development or regulatory approval of any product candidates we may develop or commercialization of our therapies, producing additional losses and depriving us of potential product revenue.

***Manufacturing biologic products is complex and subject to product loss for a variety of reasons. We contract with third parties for the manufacture of certain materials for our development programs and expect to continue to do so for clinical trials and commercialization. This reliance on third parties increases the risk that we will not have sufficient quantities of our future product candidates or products or such quantities at an acceptable cost or quality, which could delay, prevent or impair our development or commercialization efforts.***

We operate and are expanding our cGMP manufacturing facility which is currently capable of manufacturing clinical grade nucleases and mRNA to supply both wholly-owned and collaboration programs. We also partner with CMOs for guide RNA (“gRNA”) and DNA template development and supply. We also rely, and expect to continue to rely, on third parties for gRNA and DNA template development and supply, as well as for preclinical and clinical testing and commercial manufacture if any of our product candidates receive regulatory approval. We also expect to rely on these third parties for certain logistics, including packaging, labeling, storage, and distribution. This reliance on third parties increases the risk that we will not have sufficient quantities of our materials or future product candidates or products or such quantities at an acceptable cost or quality, which could delay, prevent or impair our development or commercialization efforts. We may be unable to establish any agreements with third-party manufacturers or to do so on acceptable terms. Even if we are able to establish agreements with third-party manufacturers, reliance on third-party manufacturers entails additional risks, including:

- reliance on the third party for regulatory compliance and quality assurance;
- the possible breach of the manufacturing agreement by the third party;
- the possible misappropriation of our proprietary information, including our trade secrets and know-how; and
- the possible termination or nonrenewal of the agreement by the third party at a time that is costly or inconvenient for us.

We or our third-party manufacturers may encounter shortages in the raw materials or active pharmaceutical ingredients necessary to produce our future product candidates in the quantities needed for our preclinical studies or clinical trials or, if our future product candidates are approved, in sufficient quantities for commercialization or to meet an increase in demand, as a result of capacity constraints or delays or disruptions in the market for the raw materials or active pharmaceutical ingredients, including shortages caused by the purchase of such raw materials or active pharmaceutical ingredient by our competitors or others. The failure of us or our third-party manufacturers to obtain the raw materials or active pharmaceutical ingredients necessary to manufacture sufficient quantities of our future product candidates may have a material adverse effect on our business.

Components of a finished therapeutic product approved for commercial sale or used in late-stage clinical trials must be manufactured in accordance with cGMP. We, along with our third-party manufacturers, are subject to inspection and approval by regulatory authorities before we can commence the manufacture and sale of any of our future product candidates, and thereafter subject to ongoing inspection from time to time. We or our third-party manufacturers may not be able to comply with cGMP or similar regulatory requirements outside of the United States. Our failure, or the failure of our third-party manufacturers, to comply with applicable regulations could result in regulatory actions, such as the issuance of FDA Form 483 notices of observations, warning letters or sanctions being imposed on us, including clinical holds, fines, injunctions, civil penalties, delays, suspension or withdrawal of approvals, license revocation, seizures or recalls of product candidates or products, operating restrictions and criminal prosecutions, any of which could significantly and adversely affect supplies of our products.

Manufacturing biologic products, such as the product candidates we intend to develop, is complex, especially in large quantities. Biologic products must be made consistently and in compliance with a clearly defined manufacturing process. Accordingly, it is essential to be able to validate and control the manufacturing process to assure that it is reproducible. Any product candidates and products that we may develop may compete with other product candidates and products for access to manufacturing facilities. As a result, we may not obtain access to these facilities on a priority basis or at all. There are a limited number of manufacturers that operate under cGMP and that might be capable of manufacturing for us.

Any performance failure on the part of our existing or future manufacturers could delay clinical development or regulatory approval. We do not currently have arrangements in place for redundant supply or a source for bulk drug substance nor do we have any agreements with third-party manufacturers for long-term commercial supply. If any of our contract manufacturers cannot perform as agreed, we may be required to replace such manufacturers. Although we believe that there are several potential alternative manufacturers who could manufacture materials or future product candidates or products we may develop, we may incur added costs and delays in identifying and qualifying any such replacement or be unable to reach agreement with an alternative manufacturer. If we are required to change third party-manufacturers for any reason, we will be required to verify that the new third party-manufacturer maintains facilities and procedures that comply with quality standards and with all applicable regulations. We will also need to verify, such as through a manufacturing comparability study, that any new manufacturing process will produce our materials or future product candidates or products according to the specifications previously submitted to the FDA or another regulatory authority. The delays associated with the verification of a new third party-manufacturer could negatively affect our ability to develop product candidates or commercialize our products in a timely manner or within budget. Furthermore, a third party-manufacturer may possess technology related to the manufacture of our materials or future product candidates or products that such third party-manufacturer owns independently. This would increase our reliance on such third party-manufacturer or require us to obtain a license from such third party-manufacturer in order to have another third party-manufacturer manufacture our materials or future product candidates or products, which may not be available on commercially reasonable terms, or at all. In addition, changes in manufacturers often involve changes in manufacturing procedures and processes, which could require that we conduct bridging studies between our prior clinical supply used in our clinical trials and that of any new manufacturer. We may be unsuccessful in demonstrating the comparability of clinical supplies which could require the conduct of additional clinical trials.

Our current and anticipated future dependence upon others for the manufacture of materials and any future product candidates or products we may develop may adversely affect our future profit margins and our ability to commercialize any products that receive regulatory approval on a timely and competitive basis.

***Our relationships with healthcare providers, physicians, and third-party payors will be subject to applicable anti-kickback, fraud and abuse, anti-bribery and other healthcare laws and regulations, which could expose us to criminal sanctions, civil penalties, contractual damages, reputational harm, and diminished profits and future earnings.***

Healthcare providers, including physicians, and third-party payors play a primary role in the recommendation and prescription of any product candidates that we may develop for which we obtain regulatory approval and marketing approval. Our current and future arrangements with third-party payors, healthcare providers and customers may expose us to broadly applicable fraud and abuse and other healthcare laws and regulations that may constrain the business or financial arrangements and relationships through which we market, sell, and distribute our products for which we obtain regulatory approval. Restrictions under applicable federal and state healthcare laws and regulations, including certain laws and regulations applicable only if we have marketed products, include the following:

- the civil FCA prohibits knowingly presenting or causing the presentation of a false, fictitious or fraudulent claim for payment to the U.S. government. Actions under the FCA may be brought by the Attorney General or as a qui tam action by a private individual in the name of the government. Violations of the FCA can result in very significant monetary penalties, for each false claim and treble the amount of the government's damages. Manufacturers can be held liable under the FCA even when they do not submit claims directly to government payors if they are deemed to "cause" the submission of false or fraudulent claims;
- the federal Anti-Kickback Statute prohibits, among other things, persons from soliciting, receiving or providing remuneration, directly or indirectly, to induce either the referral of an individual, for an item or service or the purchasing or ordering of a good or service, for which payment may be made under federal healthcare programs such as Medicare and Medicaid. The federal Anti-Kickback Statute has been interpreted to apply to arrangements between manufacturers on one hand and prescribers, purchasers, and formulary managers on the other. A person or entity does not need to have actual knowledge of the statute or specific intent to violate it in order to have committed a violation. A violation of the federal Anti-Kickback Statute can also form the basis for FCA liability;
- HIPAA, which, in addition to privacy protections applicable to healthcare providers and other entities, prohibits executing a scheme to defraud any healthcare benefit program or making false statements relating to healthcare matters. Similar to the federal Anti-Kickback Statute, a person or entity does not need to have actual knowledge of the statute or specific intent to violate it in order to have committed a violation;

- HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act of 2009 (“HITECH”), and its implementing regulations, including the final omnibus rule published on January 25, 2013, imposes, among other things, certain requirements relating to the privacy, security and transmission of individually identifiable health information. Among other things, HITECH makes HIPAA’s privacy and security standards directly applicable to “business associates,” defined as independent contractors or agents of covered entities that create, receive, maintain, transmit, or obtain, protected health information in connection with providing a service for or on behalf of a covered entity, and their covered subcontractors. HITECH also increased the civil and criminal penalties that may be imposed against covered entities, business associates and possibly other persons, and gave state attorneys general new authority to file civil actions for damages or injunctions in federal courts to enforce the federal HIPAA laws and seek attorney’s fees and costs associated with pursuing federal civil actions;
- the FD&C Act, which among other things, strictly regulates drug marketing, prohibits manufacturers from marketing such products for off-label use and regulates the distribution of samples;
- federal laws that require pharmaceutical manufacturers to report certain calculated product prices to the government or provide certain discounts or rebates to government authorities or private entities, often as a condition of reimbursement under government healthcare programs;
- federal transparency laws, including the federal Physician Payment Sunshine Act created under the Patient Protection and Affordable Care Act as amended by the Health Care and Education Reconciliation Act of 2010 (collectively, the “ACA”), and its implementing regulations, which requires manufacturers of certain drugs, devices, medical supplies, and biologics, among others, to track and disclose payments under Medicare, Medicaid or the Children’s Health Insurance Program (with certain exceptions) and other transfers of value they make to U.S. physicians (defined to include doctors, dentists, optometrists, podiatrists and chiropractors), certain non-physician providers such as physician assistants and nurse practitioners, and teaching hospitals, as well as ownership and investment interests held by physicians and their immediate family members. This information is subsequently made publicly available in a searchable format on a Centers for Medicare & Medicaid Services (“CMS”) website. Failure to disclose required information may result in civil monetary penalties for all payments, transfers of value or ownership or investment interests that are not timely, accurately and completely reported in an annual submission. Certain states also mandate implementation of compliance programs, impose restrictions on drug manufacturer marketing practices and/ or require the tracking and reporting of gifts, compensation and other remuneration to physicians and/or other healthcare providers; and
- analogous state and foreign laws and regulations, such as state anti-kickback, anti-bribery and false claims laws, which may apply to healthcare items or services that are reimbursed by non-governmental third-party payors, including private insurers.

Some state laws also require pharmaceutical companies to comply with specific compliance standards, restrict financial interactions between pharmaceutical companies and healthcare providers or require pharmaceutical companies to report information related to payments to healthcare providers or marketing expenditures.

Efforts to ensure that our business arrangements with third parties will comply with applicable healthcare laws and regulations will involve substantial costs. Given the breadth of the laws and regulations, limited guidance for certain laws and regulations and evolving government interpretations of the laws and regulations, governmental authorities may possibly conclude that our business practices may not comply with healthcare laws and regulations. If our operations are found to be in violation of any of the laws described above or any other government regulations that apply to us, we may be subject to significant penalties, including civil and criminal penalties, damages, fines, exclusion from participation in government healthcare programs, such as Medicare and Medicaid, individual imprisonment, and the curtailment or restructuring of our operations, any of which could adversely affect our business, financial condition, results of operations, and prospects.

The provision of benefits or advantages to physicians to induce or encourage the prescription, recommendation, endorsement, purchase, supply, order, or use of medicinal products is prohibited in the European Union. The provision of benefits or advantages to induce or reward improper performance generally is governed by the national anti-bribery laws of European Union Member States, and the Bribery Act 2010 in the United Kingdom. Infringement of these laws could result in substantial fines and imprisonment. EU Directive 2001/83/EC, which is the EU Directive governing medicinal products for human use, further provides that, where medicinal products are being promoted to persons qualified to prescribe or supply them, no gifts, pecuniary advantages or benefits in kind may be supplied, offered or promised to such persons unless they are inexpensive and relevant to the practice of medicine or pharmacy. This provision has been transposed into the Human Medicines Regulations 2012 and so remains applicable in the United Kingdom despite its departure from the EU.

Payments made to physicians in certain European Union Member States must be publicly disclosed. Moreover, agreements with physicians often must be the subject of prior notification and approval by the physician's employer, his or her competent professional organization, and/or the regulatory authorities of the individual European Union Member States. These requirements are provided in the national laws, industry codes, or professional codes of conduct applicable in the European Union Member States. Failure to comply with these requirements could result in reputational risk, public reprimands, administrative penalties, fines or imprisonment.

### **Risks Related to Personnel, Operations, and Growth**

*We may not realize the expected operational or financial benefits from our organizational changes, which could also have unintended consequences and adversely impact our financial position, results of operations and cash flows.*

On November 11, 2025, we announced a new Chief Executive Officer and a strategic restructuring that included a reduction in our organizational headcount of 25%. We recognized substantially all of the charges related to workforce reduction in the quarter ended December 31, 2025.

Our recent changes in executive management, as well as the reduction in headcount, may be disruptive to our operations. Any significant leadership change or executive management transition involves inherent risk and can be difficult to manage. For example, these changes could yield unanticipated consequences, such as attrition beyond planned staff reductions, the loss of institutional knowledge and expertise, increased difficulties in our day-to-day operations, reduced employee morale and diversion of our management and employee attention from other business priorities. The reduction in headcount could also harm our ability to attract and retain qualified personnel who are critical to our business, make it difficult for us to pursue new opportunities and initiatives and require us to hire qualified replacement personnel.

*Our future success depends on our ability to retain our Chief Executive Officer and other key executives and to attract, retain, and motivate qualified personnel.*

In November 2025, we experienced the departure of our Founder and Chief Executive Officer, Brian C. Thomas. Jian Irish, our former President and Chief Operating Officer, was appointed as our new Chief Executive Officer and President. We are highly dependent on principal members of our management and scientific teams. Such principal members are engaged "at will," meaning we or they may terminate the relationship at any time. We do not maintain "key person" insurance for any of our executives or other employees. The loss of the services of any of these persons could impede the achievement of our research, development and commercialization objectives. For us to successfully compete and grow, we must recruit, retain, and develop talent who can provide the necessary expertise across a broad spectrum of disciplines. In addition, we must develop, maintain and, as necessary, implement appropriate succession plans to ensure we have the necessary human capital capable of maintaining continuity in our business.

Recruiting and retaining qualified scientific, clinical, manufacturing and sales and marketing personnel will also be critical to our success. In addition, our company-building efforts and establishment of a company culture will also be important to developing an innovative company in a high-evolving area. We may not be able to succeed in these efforts to build Metagenomi Therapeutics as an attractive and exciting place to build a career or to attract and retain these types of personnel on acceptable terms given the competition among numerous pharmaceutical and biotechnology companies for similar personnel. We also experience competition for the hiring of scientific and clinical personnel from universities and research institutions. In addition, we rely on consultants and advisors, including scientific and clinical advisors, to assist us in formulating our research and development and commercialization strategy. Our consultants and advisors, including our scientific co-founders, may be employed by employers other than us and may have commitments under consulting or advisory contracts with other entities that may limit their availability to us. We may also encounter problems hiring and retaining the experienced scientific, quality control and manufacturing personnel needed to manage our manufacturing process, which could result in delays in our production or difficulties in maintaining compliance with applicable regulatory requirements. The inability to recruit, or loss of services of, certain executives, key employees, consultants or advisors, may impede the progress of our research, development and commercialization objectives and have a material adverse effect on our business, financial condition, results of operations and prospects.

***We expect to expand our research, development, delivery, manufacturing, commercialization, regulatory, and future sales and marketing capabilities over time, and as a result, we may encounter difficulties in managing our growth, which could disrupt our operations.***

We may fail to manage our growth effectively. Following our workforce reduction, we had 119 full-time employees, of which 39 have M.D. or Ph.D. degrees. Within our workforce, 98 employees are engaged in research, development and technical operations, and 21 are engaged in business development, finance, legal, and general management and administration. In connection with the growth and advancement of our pipeline and continuing to operate as a public company, we expect to increase the scope of our operations, particularly in the areas of research and clinical development, regulatory affairs and, if any of our future product candidates receive regulatory approval, sales and marketing. To manage our anticipated future growth, we must continue to implement and improve our managerial, operational and financial systems, expand our facilities, and continue to recruit and train additional qualified personnel. Due to our limited financial resources and the limited experience of our management team in managing a company with such anticipated growth, we may not be able to effectively manage the expected expansion of our operations or recruit and train additional qualified personnel. Moreover, the expected physical expansion of our operations may lead to significant costs and may divert our management and business development resources. Any inability to manage growth could delay the execution of our business plans or disrupt our operations.

As a growing biotechnology company, we are actively developing our platform technology and pursuing development of future product candidates in many therapeutic areas and across a wide range of diseases. Successfully developing product candidates for and fully understanding the regulatory and manufacturing pathways to all of these therapeutic areas and disease states requires a significant depth of talent, resources and corporate processes in order to allow simultaneous execution across multiple areas. We will need to transition from a company with a research focus to a company capable of conducting clinical trials and ultimately supporting commercial activities if any of our product candidates are approved. We may not be successful in such a transition. Due to our limited resources, we may not be able to effectively manage this simultaneous execution and the expansion of our operations or recruit and train additional qualified personnel. This may result in weaknesses in our infrastructure, give rise to operational mistakes, legal or regulatory compliance failures, loss of business opportunities, loss of employees and reduced productivity among remaining employees. The physical expansion of our operations may lead to significant costs and may divert financial resources from other projects, such as the development of our potential product candidates. If our management is unable to effectively manage our expected development and expansion, our expenses may increase more than expected, our ability to generate or increase our revenue could be reduced and we may not be able to implement our business strategy. Our future financial performance and our ability to compete effectively and commercialize any product candidates we may develop will depend in part on our ability to effectively manage the future development and expansion of our company, and may prevent us from achieving or maintaining profitability. We cannot assure you that we will be able to compete effectively in the future against existing or new competitors, and our failure to do so could harm our business, financial condition, and results of operations.

***Disruptions at the FDA and other government agencies caused by funding shortages, a reduction in staffing or global health concerns could hinder their ability to hire, retain or deploy key leadership and other personnel, or otherwise prevent new or modified products from being developed, approved, or commercialized in a timely manner or at all, which could negatively impact our business.***

The ability of the FDA to review and approve new products can be affected by a variety of factors, including government budget and funding levels, reduced staffing, statutory, regulatory, and policy changes, the FDA's ability to hire and retain key personnel and accept the payment of user fees, and other events that may otherwise affect the FDA's ability to perform routine functions. Average review times at the agency have fluctuated in recent years as a result. In addition, government funding of other government agencies that fund research and development activities is subject to the political process, which is inherently fluid and unpredictable. Disruptions at the FDA and other agencies, including substantial leadership changes, personnel cuts, and policy changes, may also slow the time necessary for biologics or modifications to approved biologics to be reviewed and/or approved by necessary government agencies, which would adversely affect our business. Changes and cuts in FDA staffing also could result in delays in the FDA's responsiveness or in its ability to review IND submissions or marketing applications, issue regulations or guidance, or implement or enforce regulatory requirements in a timely fashion or at all.

A prolonged government shutdown, significant leadership, personnel, and/or policy changes, or other substantial modifications in agency activities (including due to global health concerns or geopolitical factors) could significantly impact the ability of the FDA or other regulatory authorities to timely review and process our regulatory submissions, which could have a material adverse effect on our business. Disruptions at agencies that fund our research and development activities and our clinical trials, or changes to such agencies' budgets, may negatively impact our operations and ongoing clinical trials and may limit our ability to seek additional funding in the future. Further shutdowns or other disruptions could also affect other government agencies such as the SEC, which may also impact our business by delaying review of our public filings, to the extent such review is necessary, and our ability to access the public markets.

There is substantial uncertainty as to how and the extent the Trump administration will seek to modify or revise the requirements and policies of the FDA and other regulatory agencies with jurisdiction over our product candidates and any products for which we obtain approval. This uncertainty could present new challenges and/or opportunities as we navigate development and approval of our product candidates. Additionally, the Trump administration could issue or promulgate executive orders, regulations, policies or guidance that adversely affect us or create a more challenging or costly environment to pursue the development of new therapeutic candidates.

### **Risks Related to Our Intellectual Property**

*Our commercial success depends on our ability to obtain, maintain, enforce, and otherwise protect our intellectual property and proprietary technology, and if the scope of the intellectual property protection obtained is not sufficiently broad, our competitors or other third parties could develop and commercialize products and product candidates similar or identical to ours and our ability to successfully develop and commercialize our genome editing systems may be adversely affected.*

Our commercial success depends, in large part, on our ability to obtain and maintain intellectual property rights protection through patents, trademarks, and trade secrets in the United States and other countries with respect to our proprietary genome editing systems and to operate without infringing, misappropriating or otherwise violating the intellectual property of others. If we do not adequately protect our intellectual property rights, competitors or other third parties may be able to erode, negate or preempt any competitive advantage we may have, which could harm our business and ability to achieve profitability. To protect our proprietary position, we have filed patent applications and may file other patent applications in the United States or abroad related to our genome editing systems that are important to our business; we may also license or purchase patents or patent applications filed by others. The patent application process is expensive, time-consuming and complex. We may not be able to file, prosecute, maintain, enforce or license all necessary or desirable patent applications at a reasonable cost or in a timely manner. Additionally, recent reforms and changes at government agencies of the United States and those of non-U.S. jurisdictions could increase the uncertainties and costs surrounding the prosecution or maintenance of our patent applications, and the maintenance, enforcement, or defense of our issued patents. For example, the ability of the United States Patent and Trademark Office (“USPTO”) and other applicable patent authorities to properly administer their functions is highly dependent on the levels of funding available to the agency and their ability to retain key personnel and fill key leadership appointments, among various factors. Termination of employees or delays in replacing or hiring for key positions could significantly impact the ability of the USPTO and other applicable patent authorities to fulfill their functions and could greatly impact our ability to timely and adequately prosecute or maintain our patent applications, and our ability to timely and adequately maintain, enforce, or defend our issued patents.

We may not be able to obtain patents on certain inventions if those inventions are publicly disclosed prior to our filing a patent application covering them. We enter into nondisclosure and confidentiality agreements with parties who have access to confidential information, including confidential information regarding inventions not yet disclosed in patent applications. We cannot guarantee that any of these parties will not breach these confidentiality agreements and publicly disclose any of our inventions before a patent application is filed covering such inventions. If such confidential information is publicly disclosed, we may not be able to successfully patent it and consequently, we may not be able to prevent third parties from using such inventions.

If the scope of the patent protection we obtain is not sufficiently broad, we may not be able to prevent others from developing and commercializing technology and products similar or identical to ours. The degree of patent protection we require to successfully compete in the marketplace may be unavailable or severely limited in some cases and may not adequately protect our rights or permit us to gain or keep any competitive advantage. We cannot provide any assurances that any of our patents have, or that any of our pending owned patent applications that mature into issued patents will include claims with a scope sufficient to protect our proprietary genome editing systems or otherwise provide any competitive advantage. Other parties have developed or may develop technologies that may be related or competitive with our approach, and may have filed or may file patent applications and may have been issued or may be issued patents with claims that overlap or conflict with our patent portfolio, either by claiming the same compounds, formulations or methods or by claiming subject matter that could dominate our patent position. In addition, the laws of foreign countries may not protect our rights to the same extent as the laws of the United States. Furthermore, patents have a limited lifespan. In the United States, the natural expiration of a patent is generally twenty years after its earliest priority claim, not including priority claims to provisional or foreign national applications. Various extensions may be available; however, the life of a patent, and the protection it affords, is limited.

Depending upon the timing, duration and specifics of FDA marketing approval of our product candidates, one or more of our U.S. patents or those any future partners, collaborators, or licensees may be eligible for limited patent term restoration under the Hatch-Waxman Amendments. Patent term extension may also be available in certain foreign countries upon regulatory approval of our product candidates.

We may not be granted any extensions for which we apply in the U.S. or any other jurisdiction because of, for example, failing to exercise due diligence during the testing phase or regulatory review process, failing to apply within applicable deadlines, failing to apply prior to expiration of relevant patents or otherwise failing to satisfy applicable requirements. Moreover, the applicable time period or the scope of patent protection afforded could be less than we project or request. In addition, to the extent we wish to pursue patent term extension based on a patent that we in-license from a third party, we would need the cooperation of that third party. If we are unable to obtain patent term extension or restoration, or the foreign equivalent, or if the term of any such extension is less than we project or request, our competitors may obtain approval of competing products following our patent expiration, and our revenue could be reduced, possibly materially.

Given the amount of time required for the development, testing and regulatory review of new genome editing systems, patents protecting such genome editing systems might expire before or shortly after such genome editing systems are commercialized. As a result, our patent portfolio may not provide us with adequate and continuing patent protection sufficient to exclude others from commercializing products similar or identical to ours.

Even if they are unchallenged, our owned patents and pending patent applications, if issued, may not provide us with any meaningful protection or prevent competitors from designing around our patent claims to circumvent our patent portfolio by developing similar or alternative genome editing systems in a non-infringing manner. For example, a third party may develop a genome editing system that provides benefits similar to our genome editing systems but falls outside the scope of our patent protection or license rights. If the patent protection provided by the patent and patent applications we hold or pursue with respect to our genome editing systems is not sufficiently broad to impede such competition, our ability to successfully commercialize our product genome editing systems could be negatively affected, which would harm our business.

We, or any future partners, collaborators, or licensees, may fail to identify patentable aspects of inventions made in the course of development and commercialization activities before it is too late to obtain patent protection on them. Therefore, we may miss potential opportunities to strengthen our patent position.

It is possible that defects of form in the preparation or filing of our patent portfolio may exist, or may arise in the future, for example with respect to proper priority claims, inventorship, claim scope, or requests for patent term adjustments. If we or our partners, collaborators, or licensees whether current or future, fail to establish, maintain or protect such patents and other intellectual property rights, such rights may be reduced or eliminated. If our partners, collaborators, or licensees are not fully cooperative or disagree with us as to the prosecution, maintenance or enforcement of any patent rights, such patent rights could be compromised. If there are material defects in the form, preparation, prosecution, or enforcement of our patent portfolio, such patents may be invalid and/or unenforceable, and such applications may never result in valid, enforceable patents. Periodic maintenance fees, renewal fees, annuity fees and various other government fees on patents and/or applications will be due to be paid to the USPTO and various government patent agencies outside of the United States over the lifetime of our owned or licensed patents and patent applications. We rely on our outside counsel, outside patent annuity service or our licensing partners to pay these fees due to U.S. and non-U.S. patent agencies. The USPTO and various non-U.S. government patent agencies require compliance with several procedural, documentary, fee payment and other similar provisions during the patent application process. Any of these outcomes could impair our ability to prevent competition from third parties, which may have an adverse impact on our business.

The patent position of biotechnology and pharmaceutical companies carries uncertainty. In addition, the determination of patent rights with respect to genome editing technologies commonly involves complex legal and factual questions, which are dependent upon the current legal and intellectual property context, extant legal precedent and interpretations of the law by individuals. As a result, the issuance, scope, validity, enforceability and commercial value of our patent rights are characterized by uncertainty.

Pending patent applications cannot be enforced against third parties practicing the technology claimed in such applications unless and until a patent issues from such applications. Assuming the other requirements for patentability are met, currently, the first to file a patent application is generally entitled to the patent. However, prior to March 16, 2013, in the United States, the first to invent was entitled to the patent. Publications of discoveries in the scientific literature often lag behind the actual discoveries, and patent applications in the United States and other jurisdictions are not published until 18 months after filing, or in some cases not at all. Furthermore, the volume of all publicly available prior art is not feasibly searchable in detail in its entirety. Therefore, we cannot be certain that we were the first to make the inventions claimed in our patent portfolio, or that we were the first to file for patent protection of such inventions. If third parties have filed prior patent applications on inventions claimed in our patent portfolio that were filed on or before March 15, 2013, an interference proceeding in the United States can be initiated by such third parties to determine who was the first to invent any of the subject matter covered by our patent portfolio. If third parties have filed such prior applications after March 15, 2013, a derivation proceeding in the United States can be initiated by such third parties to determine whether our invention was derived from theirs.

Moreover, because the issuance of a patent is not conclusive as to its inventorship, scope, validity or enforceability, our patents may be challenged in the courts or patent offices in the United States and abroad. There is no assurance that all the potentially relevant prior art relating to our patent portfolio has been found. Publications of discoveries in the scientific literature often lag behind the actual discoveries, and patent applications in the United States and other jurisdictions are typically not published until 18 months after filing or, in some cases, not at all. Therefore, we cannot know with certainty whether we were the first to make the inventions claimed in our patent portfolio, or that we were the first to file for patent protection of such inventions. If such prior art exists, it may be used to invalidate a patent, or may prevent a patent from issuing from a pending patent application. For example, such patent filings may be subject to a third-party submission of prior art to the USPTO, or to other patent offices around the world. Alternately or additionally, we may become involved in post-grant review procedures, oppositions, derivation proceedings, ex parte reexaminations, inter partes review, supplemental examinations, or interference proceedings or challenges before the USPTO or in district court in the United States, or similar proceedings in various foreign jurisdictions, including both national and regional, challenging patents or patent applications in which we have rights, including patents on which we rely to protect our business. An adverse determination in any such challenges may result in loss of the patent or claims in the patent portfolio being narrowed, invalidated or held unenforceable, in whole or in part, or in denial of the patent application or loss or reduction in the scope of one or more claims of the patent portfolio, any of which could limit our ability to stop others from using or commercializing similar or identical technology and products, or limit the duration of the patent protection of our technology and products.

Pending and future patent applications may not result in patents being issued that protect our business, in whole or in part, or which effectively prevent others from commercializing competitive products. Competitors may also be able to design around our patents. Changes in either the patent laws or interpretation of the patent laws in the United States and other countries may diminish the value of our patents or narrow the scope of our patent protection. In addition, the laws of foreign countries may not protect our rights to the same extent or in the same manner as the laws of the United States. For example, patent laws in various jurisdictions, including jurisdiction covering significant commercial markets, such as the European Patent Office, China, and Japan, restrict the patentability of methods of treatment of the human body more than United States law does. If these developments were to occur, they could have a material adverse effect on our ability to generate revenue.

The U.S. Supreme Court has ruled on several patent cases in recent years, either narrowing the scope of patent protection available in certain circumstances or weakening the rights of patent owners in certain situations. For example, the U.S. Supreme Court held in *Amgen v. Sanofi* (2023) that a functionally claimed genus was invalid for failing to comply with the enablement requirement of the Patent Act. In addition, the U.S. Court of Appeals for the Federal Circuit recently issued a decision involving the interaction of a patent term adjustment, terminal disclaimers, and obvious-type double patenting. This combination of events has created uncertainty with respect to the validity and enforceability of patents, once obtained. Similarly, foreign courts have made and will continue to make changes in how the patent laws in their respective jurisdictions are interpreted. We cannot predict future changes in the interpretation of patent laws or changes to patent laws that might be enacted into law by U.S. and foreign legislative bodies. For example, the IRA passed by Congress authorizes the Secretary of the Department of HHS to negotiate prices directly with participating manufacturers for selected medicines covered by Medicare even if these medicines are protected by an existing patent. While we do not believe that the IRA or its effects will impact our ability to obtain patents in the near future, we cannot be certain whether it will affect our patent strategy in the long run. The laws and regulations governing patents could change in unpredictable ways that would weaken our ability to obtain new patents or to enforce our existing patent and the patents we might obtain or license in the future. Additionally, in July 2025, the U.S. Food and Drug Administration (FDA) announced its intent to increase transparency by publicly releasing portions of Complete Response Letters (CRLs) issued to drug and biologic sponsors. While the FDA has stated that confidential information will be protected, it remains unclear how such disclosures will be implemented. Because CRLs often contain specific observations about study design, clinical endpoints, chemistry, manufacturing, and controls (CMC) data, or other proprietary information, any public release could unintentionally disclose information that competitors may use to infer proprietary aspects of our product candidates or platform technologies. This could compromise the confidentiality of our trade secrets and know-how or facilitate third-party efforts to design around or challenge the validity, enforceability, or scope of our patents, or accelerate the development of generics or biosimilars. If we are required to modify or limit the information shared with the FDA to mitigate such risks, it could increase costs, slow our regulatory interactions, or delay product approval timelines.

European patent applications now have the option, upon grant of a patent, of becoming a Unitary Patent which will be subject to the jurisdiction of the Unified Patent Court (UPC). This is a significant change in European patent practice. As the UPC is a relatively new court system, there is limited precedent for the court, increasing the uncertainty of any litigation. As a single court system can invalidate a European patent, we, where applicable, have opted out of the UPC and as such, but for proceedings such as an opposition, each European patent would need to be challenged in each individual country.

Geo-political actions in the U.S. and in foreign countries could increase the uncertainties and costs surrounding the prosecution or maintenance of our patent applications or those of any current or future licensors and the maintenance, enforcement or defense of our issued patents or those of any current or future licensors. Government actions may also prevent filing, prosecution and maintenance of issued patents in various jurisdictions. These actions could result in abandonment or lapse of our patents or patent applications, resulting in partial or complete loss of patent rights in such jurisdictions. If such an event were to occur, it could have a material adverse effect on our business. In addition, jurisdictions outside of the U.S. could also permit our patents to be exploited without consent or compensation. In such circumstances we would not be able to prevent third parties from practicing our inventions or from selling or importing products made using our inventions in and into such jurisdictions. Accordingly, our competitive position may be impaired, and our business, financial condition, results of operations and prospects may be adversely affected. Additionally, changes in US trade policy, including the imposition of new or increased tariffs as well as retaliatory measures by other countries, could adversely affect our patent strategy, such as where we choose to file, maintain, or enforce our patents. Also, if we are required to move our research or manufacturing activities to new regions, this may expose us to jurisdictions with weaker intellectual property enforcement, differing patent eligibility standards, or greater risk of compulsory licensing. These factors could compromise the protection or value of our proprietary technologies, including our core patents and related know-how.

The patent application process is subject to numerous risks and uncertainties, and there can be no assurance that we or any of our future development partners will be successful in protecting our genome editing systems by obtaining and defending patents. These risks and uncertainties include the following:

- the USPTO and various foreign governmental patent agencies require compliance with a number of procedural, documentary, fee payment and other provisions during the patent process. There are situations in which noncompliance, whether intentional or not, can result in abandonment or lapse of a patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction. In such an event, competitors might be able to enter the market earlier than would otherwise have been the case;
- patent applications may not result in any patents being issued;
- Company-owned or in-licensed patents that have been issued or may be issued in the future may be challenged, invalidated, modified, revoked, circumvented, found to be unenforceable or otherwise may not provide any competitive advantage;
- our competitors, many of whom have substantially greater resources and many of whom have made significant investments in competing technologies, may seek or may have already obtained patents that will limit, interfere with or eliminate our ability to make, use, and sell our genome editing systems;
- there may be significant pressure on the U.S. government and international governmental bodies to limit the scope of patent protection both inside and outside the United States for disease treatments that prove successful, as a matter of public policy regarding worldwide health concerns;
- countries other than the United States may have patent laws less favorable to patentees than those upheld by U.S. courts, allowing foreign competitors a better opportunity to create, develop and market competing products; and
- countries other than the U.S. may, under certain circumstances, force us to grant a license under our patents to a competitor, thus allowing the competitor to compete with us in that jurisdiction or forcing us to lower the price of our drug in that jurisdiction.

Issued patents that we have or may obtain or license may not provide us with any meaningful protection, prevent competitors from competing with us or otherwise provide us with any competitive advantage. Our competitors may be able to circumvent our patents by developing similar or alternative technologies or products in a non-infringing manner. Our competitors or other third parties may avail themselves of safe harbor under the Drug Price Competition and Patent Term Restoration Act of 1984 (Hatch-Waxman Amendments) to conduct research and clinical trials and may be able to circumvent our patent rights by developing similar or alternative technologies or products in a non-infringing manner. Our competitors may also seek approval to market their own products similar to or otherwise competitive with our products. In these circumstances, we may need to defend or assert our patents, or both, including by filing lawsuits alleging patent infringement. In any of these types of proceedings, a court or other agency with jurisdiction may find our patents invalid or unenforceable, or that our competitors do not infringe our patents. Thus, even if we have valid and enforceable patents, these patents still may not provide protection against competing products or processes sufficient to achieve our business objectives.

Our research, development and commercialization activities may be subject to claims that we infringe, misappropriate or otherwise violate patents or other intellectual property rights of others. Additionally, other entities may have, develop or obtain patents that could impair our competitive position or limit our ability to make, use, sell, offer for sale or import our product candidates. There is a substantial amount of litigation, both within and outside the U.S., involving patent and other intellectual property rights in the biotechnology industry. Numerous third-party U.S. and foreign issued patents and pending patent applications exist in the fields in which we are developing product candidates. Third-party patents or patent applications may include claims to materials, formulations, methods of manufacture or methods for treatment related to the use or manufacture of our product candidates. Given the vast number of patents in our field of technology, we cannot be certain or guarantee that we do not infringe existing patents or that we will not infringe patents that may be granted in the future.

We may fail to identify relevant patents or patent applications or may identify pending patent applications of potential interest but incorrectly predict the likelihood that such patent applications may issue with claims of relevance to our technology. We may incorrectly conclude that a third-party patent is invalid, unenforceable or not infringed by our activities. Pending patent applications that have been published can, subject to certain limitations, be later amended in a manner that could cover our technology and product candidates. Because patent applications are maintained as confidential for a certain period of time, until the relevant application is published, we may be unaware of third-party patents that may be infringed by commercialization of any of our product candidates. Moreover, because patent applications can take many years to issue, there may be currently-pending patent applications that may later result in issued patents that our product candidates may infringe. Identification of third-party patent rights that may be relevant to our technology is difficult because patent searching is imperfect due to differences in terminology among patents, incomplete databases and ambiguity in the meaning of patent claims. Generative artificial intelligence resources that are publicly available also present a risk that a company may inadvertently obtain, incorporate or use a third party's intellectual property.

Third parties may assert patent infringement claims against us directed at any of our product candidates based on existing patent applications or patents that may be granted in the future, regardless of their merit. Any patent-related legal action against us claiming damages and seeking to enjoin commercial activities relating to our products, treatment indications, or processes could subject us to significant liability for damages, including treble damages if we were determined to willfully infringe, and require us to obtain a license to manufacture or market our product candidates. Defense of these claims would involve substantial litigation expense and would be a substantial diversion of management and employee resources from our business. Because of the inevitable uncertainty in intellectual property litigation, we could lose a patent infringement or other action asserted against us regardless of our perception of the merits of the case. An adverse determination in a judicial or administrative proceeding, or the failure to obtain necessary licenses, could prevent us from developing and commercializing our product candidates, which could harm our business, financial condition and operating results. In addition, intellectual property litigation, regardless of its outcome, may cause negative publicity and could prohibit us from marketing or otherwise commercializing our product candidates and technology.

Parties making claims against us may be able to sustain the costs of complex patent litigation more effectively than we can because they have substantially greater resources. Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation or administrative proceedings, there is a risk that some of our confidential information could be compromised by disclosure. In addition, any uncertainties resulting from the initiation and continuation of any litigation could have a material adverse effect on our ability to raise additional funds or otherwise have a material adverse effect on our business, results of operations, financial condition and prospects.

In addition, our agreements with some of our suppliers or other entities with whom we do business require us to defend or indemnify these parties to the extent they become involved in infringement claims, including the types of claims described above. We could also voluntarily agree to defend or indemnify third parties in instances where we are not obligated to do so if we determine it would be important to our business relationships. If we are required or agree to defend or indemnify third parties in connection with any infringement claims, we could incur significant costs and expenses that could adversely affect our business, operating results or financial condition.

We maintain certain information as company trade secrets. This information may relate to inventions that are not patentable or not optimally protected with patents. We use commercially acceptable practices to protect this information, including, for example, limiting access to the information and requiring passwords for our computers. Additionally, we execute confidentiality agreements with any third parties to whom we may provide access to the information and with our employees, consultants, scientific advisors, collaborators, vendors, contractors, and advisors. We cannot provide any assurances that all such agreements have been duly executed, and third parties may still obtain this information or may come upon this or similar information independently. It is possible that technology relevant to our business will be independently developed by a person who is not a party to such a confidentiality or invention assignment agreement. If any of our trade secrets were to be independently developed by a competitor or other third party, we would have no right to prevent such competitor or third party, or those to whom they communicate such independently developed information, from using that information to compete with us. We may not be able to prevent the unauthorized disclosure or use of our technical knowledge or trade secrets by contract manufacturers, consultants, collaborators, vendors, advisors, former employees and current employees.

Monitoring unauthorized uses and disclosures is difficult and we do not know whether the steps we have taken to protect our proprietary technologies will be effective. Furthermore, if the parties to our confidentiality agreements breach or violate the terms of these agreements, we may not have adequate remedies for any such breach or violation, and we could lose our trade secrets as a consequence of such breaches or violations. Our trade secrets could otherwise become known or be independently discovered by our competitors. Additionally, if the steps taken to maintain our trade secrets are deemed inadequate, we may have insufficient recourse against third parties for misappropriating our trade secrets. If any of these events occurs or if we otherwise lose protection for our trade secrets, our business, financial condition, results of operation and prospects may be materially and adversely harmed.

In addition, we have entered into and may in the future enter into non-disclosure and confidentiality agreements to protect the proprietary positions of third parties, such as collaborators, CROs, third-party manufacturers, consultants, potential partners and other third parties. We may become subject to litigation where a third party asserts that we or our employees or other third parties inadvertently or otherwise breached the agreements and used or disclosed trade secrets or other information proprietary to the third parties. Defense of any such claims, regardless of their merit, could involve substantial litigation expense and be a substantial diversion of resources from our business. We cannot predict whether we would prevail in any such claims. Moreover, intellectual property litigation, regardless of its outcome, may cause negative publicity and could prohibit us from marketing or otherwise commercializing our product candidates and technology. Failure to defend against any such claim could subject us to significant liability for monetary damages or prevent or delay our developmental and commercialization efforts, including the loss of valuable intellectual property rights or personnel, all of which could adversely affect our business. Even if we are successful in defending against these claims, litigation could result in substantial costs and be a distraction to our management team and other employees.

We have entered into and may in the future enter into license agreements with third parties to advance our research or allow commercialization of product candidates. These licenses may not provide us with exclusive rights in all relevant fields of use and in all territories in which we may wish to develop or commercialize our technology and products.

In addition, we may not have the right to control the preparation, filing, prosecution, maintenance, enforcement, and defense of patents and patent applications covering the technology that we license. If our licensors fail to prosecute, maintain, enforce, and defend, or lose rights to such patents or patent applications, the rights we have licensed may be reduced or eliminated, and our right to develop and commercialize any product that is the subject of such licensed rights could be adversely affected. Even where we have the right to control patent prosecution of patents and patent applications we have/will license from third parties, we may still be adversely affected or prejudiced by actions or inactions taken by or on behalf of our licensors prior to the date upon which we assumed control over patent prosecution.

Our licensors may have relied on third-party consultants or collaborators or on funds from third parties such that our licensors are not the sole and exclusive owners of the patents we in-licensed. If other third parties have ownership rights to our in-licensed patents, our rights to use the licensed intellectual property would not be exclusive and they may be able to license such patents to our competitors, permitting our competitors to market competing products and technology. This could have a material adverse effect on our competitive position, business, financial conditions, results of operations, and prospects.

It is possible that we may be unable to obtain additional licenses at a reasonable cost or on reasonable terms, if at all. Even if we are able to obtain a license, it may be non-exclusive, thereby giving our competitors access to the same technologies licensed to us. In that event, we may be required to expend significant time and resources to redesign our technology, product candidates, or the methods for manufacturing them or to develop or license replacement technology, all of which may not be feasible on a technical or commercial basis. If we are unable to do so, we may be unable to develop or commercialize the affected product candidates, which could harm our business, financial condition, results of operations, and prospects significantly.

Our future licenses likely will impose, various diligence, royalty payment, milestone payment, insurance and other obligations on us. If we fail to comply with any of these or other obligations in our license agreements, we may be required to pay damages and the licensor may have the right to terminate the licenses. Termination by the licensor would cause us to lose valuable rights and could prevent us from developing and commercializing our product candidates and proprietary technologies. Our business would be seriously harmed if any future licenses terminate, if the licensors fail to abide by the terms of the license, if the licensors fail to enforce licensed patents against infringing third parties, if the licensed patents or other rights are found to be invalid or unenforceable, or if we are unable to enter into necessary licenses on acceptable terms. If any such event occurs, competitors or other third parties may gain the freedom to seek regulatory approval of, and to market, products identical to ours. Further, we may have to negotiate new or reinstated licenses with less favorable terms or we may not have sufficient intellectual property rights to operate our business. This could have a material adverse effect on our competitive position, business, financial condition, results of operations, and prospects.

The agreements under which we license intellectual property or technology from third parties are complex, and certain provisions in such agreements may be susceptible to multiple interpretations. Disputes may arise between us and our future licensors. In spite of our efforts, our future licensors might conclude that we have materially breached our obligations under our license agreements and might therefore terminate such license agreements, thereby removing our ability to develop and commercialize products and technology covered by these license agreements. The resolution of any contract interpretation disagreement that may arise could narrow what we believe to be the scope of our rights to the relevant intellectual property or technology, or increase what we believe to be our financial or other obligations under the relevant agreement, either of which could have a material adverse effect on our business, financial condition, results of operations, and prospects. Moreover, if disputes over intellectual property that we license prevent or impair our ability to maintain licensing arrangements on commercially acceptable terms, or are insufficient to provide us the necessary rights to use the intellectual property rights, we may be unable to successfully develop and commercialize the affected product candidates, which could have a material adverse effect on our business, financial conditions, results of operations, and prospects.

Our licensors may also own or control intellectual property that has not been licensed to us and, as a result, we may be subject to claims, regardless of their merit, that we are infringing or otherwise violating our licensor's rights. In addition, while we cannot currently determine the amount of royalty obligations we would be required to pay on the sales of future products, if any, the amounts may be significant. The amount of our future royalty obligations will depend on the technology and intellectual property we use in product candidates that we successfully develop and commercialize, if any. Therefore, even if we successfully develop and commercialize any product candidates, we may be unable to achieve or maintain profitability.

***It is difficult and costly to protect our intellectual property and our proprietary technologies, and we may not be able to ensure their protection.***

Our commercial success will depend in part on obtaining and maintaining patent protection and trade secret protection for our proprietary genome editing systems, as well as on successfully defending these patents against potential third-party challenges. Our ability to protect our genome editing systems from unauthorized making, using, selling, offering to sell or importing by third parties is dependent on the extent to which we have rights under valid and enforceable patents that cover these activities.

The patent positions of pharmaceutical, biotechnology and other life sciences companies can be highly uncertain and involve complex legal and factual questions for which important legal principles remain unresolved and have in recent years been the subject of much litigation. Changes in either the patent laws or in interpretations of patent laws in the United States and other countries may diminish the value of our intellectual property. Over the past decade, U.S. federal courts have increasingly invalidated pharmaceutical and biotechnology patents during litigation often based on changing interpretations of patent law. Further, the determination that a patent application or patent claim meets all the requirements for patentability is a subjective determination based on the application of law and jurisprudence. The ultimate determination by the USPTO or by a court or other trier of fact in the United States, or corresponding foreign national patent offices or courts, on whether a claim meets all requirements of patentability cannot be assured. Although we have conducted searches for third-party publications, patents and other information that may affect the patentability of claims in our patent portfolio, we cannot be certain that all relevant information has been identified. Accordingly, we cannot predict the breadth of claims that may be allowed or enforced in our own patent portfolio.

We cannot provide assurances that any of our patent applications will be found to be patentable, including over our own prior art publications or patent literature, or will issue as patents. Neither can we make assurances as to the scope of any claims that may issue from our pending and future patent applications nor to the outcome of any proceedings by any potential third parties that could challenge the patentability, validity or enforceability of our patent portfolio in the United States or foreign jurisdictions. Any such challenge, if successful, could limit patent protection for our genome editing systems and/or materially harm our business.

In addition to challenges during litigation, third parties can challenge the validity of our patents in the United States using post-grant review and inter partes review proceedings, which some third parties have been using to cause the cancelation of selected or all claims of issued patents of competitors. For a patent filed March 16, 2013 or later, a petition for post-grant review can be filed by a third party in a nine-month window from issuance of the patent. A petition for inter partes review can be filed immediately following the issuance of a patent if the patent has an effective filing date prior to March 16, 2013. A petition for inter partes review can be filed after the nine-month period for filing a post-grant review petition has expired for a patent with an effective filing date of March 16, 2013 or later. Post-grant review proceedings can be brought on any ground of invalidity, whereas inter partes review proceedings can only raise an invalidity challenge based on published prior art and patents. These adversarial actions at the USPTO review patent claims without the presumption of validity afforded to U.S. patents in lawsuits in U.S. federal courts and use a lower burden of proof than used in litigation in U.S. federal courts. Therefore, it is generally considered easier for a competitor or third party to have a U.S. patent invalidated in a USPTO post-grant review or inter partes review proceeding than invalidated in a litigation in a U.S. federal court. If any of our patents are challenged by a third party in such a USPTO proceeding, there is no guarantee that we will be successful in defending the patent, which may result in a loss of the challenged patent right to us.

The degree of future protection for our proprietary rights is uncertain because legal means afford only limited protection and may not adequately protect our rights or permit us to gain or keep our competitive advantage. For example:

- we may not be able to generate sufficient data to support full patent applications that protect the entire breadth of developments in one or more of our programs;
- it is possible that one or more of our pending patent applications will not become an issued patent or, if issued, that the patent(s) claims will have sufficient scope to protect our technology, provide us with commercially viable patent protection or provide us with any competitive advantages;
- if our pending applications issue as patents, they may be challenged by third parties as invalid or unenforceable under United States or foreign laws;
- we may not successfully commercialize our genome editing systems, if approved, before our relevant patents expire;
- we may not be the first to make the inventions covered by our patent portfolio; or
- we may not develop additional proprietary technologies or genome editing systems that are separately patentable.

In addition, to the extent that we are unable to obtain and maintain patent protection for our genome editing systems, or in the event that such patent protection expires, it may no longer be cost-effective to extend our portfolio by pursuing additional development of any of our genome editing systems for follow-on indications.

***Patent terms may be inadequate to protect our competitive position on our products for an adequate amount of time.***

Patents have a limited lifespan. In the United States, if all maintenance fees are timely paid, the natural expiration of a patent is generally 20 years from its earliest priority claim, not including priority claims to provisional or foreign national applications. The patent term of a U.S. patent may be lengthened by patent term adjustment, which compensates a patentee for administrative delays by the USPTO in granting a patent, or may be shortened if a patent is terminally disclaimed over an earlier-filed patent.

Various extensions may be available, but the life of a patent, and the protection it affords, is limited. Given the amount of time required for the development, testing and regulatory review of new genome editing systems, patents protecting such genome editing systems might expire before or shortly after such genome editing systems are commercialized.

In the United States, the Drug Price Competition and Patent Term Restoration Act of 1984 permits a Patent Term Extension (“PTE”) of up to five years beyond the normal expiration of the patent to compensate patent owners for loss of enforceable patent term due to the lengthy regulatory approval process. A PTE grant cannot extend the remaining term of a patent beyond a total of 14 years from the date of the product approval.

Further, PTE may only be applied once per product, and only with respect to an approved indication. In other words, only one patent (for example, covering the product itself, an approved use of said product, or a method of manufacturing said product) can be extended by PTE. We anticipate applying for PTE in the United States. Similar extensions may be available in other countries where we are prosecuting patents and we likewise anticipate applying for such extensions.

The granting of such patent term extensions is not guaranteed and is subject to numerous requirements. We might not be granted an extension because of, for example, failure to apply within applicable periods, failure to apply prior to the expiration of relevant patents or otherwise failure to satisfy any of the numerous applicable requirements. Additionally, administrative changes at the USPTO or other applicable regulatory patent authorities, such as reduced hiring and/or funding, may result in delays in issuance of a patent or in accrual of patent term extension, thereby reducing the amount of patent term extension that could otherwise be received. Administrative changes (e.g., at the FDA or USPTO) may also lead to delays in review and analysis of requests for patent term extension, which could result in a patent term extension not being timely granted (e.g., before the expiration of the patent). In addition, to the extent we wish to pursue patent term extension based on a patent that we in-license from a third party, we would need the cooperation of that third party. Moreover, the applicable authorities, including the FDA and the USPTO in the United States, and any equivalent regulatory authority in other countries, may not agree with our assessment of whether such extensions are available, and may refuse to grant extensions to our patents, or may grant more limited extensions than we request. If this occurs, our competitors may be able to obtain approval of competing products following our patent expiration by referencing our clinical and preclinical data and launch their product earlier than might otherwise be the case. If this were to occur, it could have a material adverse effect on our ability to generate revenue.

***Changes in the interpretation of patent law in the United States and other jurisdictions could diminish the value of patents in general, thereby impairing our ability to protect our products.***

The United States Congress is responsible for passing laws establishing patentability standards. As with any laws, implementation is left to federal agencies and the federal courts based on their interpretations of the laws. Interpretation of patent standards can vary significantly within the USPTO, and across the various federal courts, including the U.S. Supreme Court. Recently, the Supreme Court has ruled on several patent cases, generally limiting the types of inventions that can be patented. Further, there are open questions regarding interpretation of patentability standards that the Supreme Court has yet to decisively address. Absent clear guidance from the Supreme Court, the USPTO has become increasingly conservative in its interpretation of patent laws and standards.

In addition to increasing uncertainty with regard to our ability to obtain patents in the future, the legal landscape in the U.S. has created uncertainty with respect to the value of patents. Depending on any actions by Congress, and future decisions by the lower federal courts and the U.S. Supreme Court, along with interpretations by the USPTO, the laws and regulations governing patents could change in unpredictable ways and could weaken our ability to obtain new patents or to enforce our existing patents and patents that we might obtain in the future.

The U.S. Supreme Court has ruled on several patent cases in recent years; these cases often narrow the scope of patent protection available to inventions in the biotechnology and pharmaceutical spaces. For example, in *Association for Molecular Pathology v. Myriad Genetics, Inc.* (“*Myriad*”), the Supreme Court ruled that a “naturally occurring DNA segment is a product of nature and not patent eligible merely because it has been isolated,” and invalidated Myriad Genetics’ claims on the isolated BRCA1 and BRCA2 genes. Certain claims of our patent portfolio relate to genome editing systems. While we believe that our proprietary genome editing systems involve significant human intervention, components of the system, such as the isolated nucleases with no modifications, are derived from naturally-occurring products. To the extent that such claims are deemed to be directed to natural products, or to lack an inventive concept above and beyond an isolated natural product, a court may decide the claims are directed to patent-ineligible subject matter and are invalid. The application of *Myriad* to biotechnology inventions has continued to develop and may continue to change over time.

Subsequent rulings in cases or guidance or procedures issued by the USPTO relating to patent eligibility may have a negative impact on our business.

In *Amgen Inc. v. Sanofi* (“*Amgen*”), the U.S. Supreme Court held that certain of Amgen’s patent claims defined a class of antibodies by their function of binding to a particular antigen. The U.S. Supreme Court further wrote that because the patent claims defined the claimed class of antibodies only by their function of binding to a particular antigen, a skilled artisan would have to use significant trial and error to identify and make all of the molecules in that class. The U.S. Supreme Court ultimately held that Amgen failed to properly enable its patent claims. Certain claims of our patent portfolio relate to broad classes of gene editors. To the extent that a court finds that the skilled artisan would need significant trial and error to identify all the gene editors in that class, the court may find the claims invalid under *Amgen*. Depending on future actions by the U.S. Congress, the U.S. courts, the USPTO and the relevant law-making bodies in other countries, the laws and regulations governing patents could change in unpredictable ways that would weaken our ability to obtain new patents or to enforce our existing patents and patents that we might obtain in the future.

Further, a new court system recently became operational in the European Union. The Unified Patent Court (“UPC”) began accepting patent cases on June 1, 2023. The UPC is a common patent court with jurisdiction over patent infringement and revocation proceedings effective for multiple member states of the European Union. The broad geographic reach of the UPC could enable third parties to seek revocation of any of our European patents in a single proceeding at the UPC rather than through multiple proceedings in each of the individual European Union member states in which the European patent is validated. Under the UPC, a successful revocation proceeding for a European Patent under the UPC would result in loss of patent protection in those European Union countries. Accordingly, a single proceeding under the UPC could result in the partial or complete loss of patent protection in numerous European Union countries. Such a loss of patent protection could have a material adverse impact on our business and our ability to commercialize our technology and product candidates and, resultantly, on our business, financial condition, prospects and results of operations. Moreover, the controlling laws and regulations of the UPC will develop over time and we cannot predict what the outcomes of cases tried before the UPC will be. The case law of the UPC may adversely affect our ability to enforce or defend the validity of our European patents. Patent owners have the option to opt-out their European Patents from the jurisdiction of the UPC, defaulting to pre-UPC enforcement mechanisms. We have decided to opt out certain European patents and patent applications from the UPC. However, if certain formalities and requirements are not met, our European patents and patent applications could be subject to the jurisdiction of the UPC. We cannot be certain that our European patents and patent applications will avoid falling under the jurisdiction of the UPC, if we decide to opt out of the UPC.

***We may not be able to seek or obtain patent protection throughout the world or enforce such patent protection once obtained.***

Filing, prosecuting, enforcing, and defending patents protecting our genome editing systems in all countries throughout the world would be prohibitively expensive, and our intellectual property rights in some countries outside the United States can be less extensive than those in the United States. The requirements for patentability may differ in certain countries, particularly in developing countries; thus, even in countries where we do pursue patent protection, there can be no assurance that any patents will issue with claims that cover our products.

Moreover, our ability to protect and enforce our intellectual property rights may be adversely affected by unforeseen changes in foreign intellectual property laws. Additionally, laws of some countries outside of the United States and Europe do not afford intellectual property protection to the same extent as the laws of the United States and Europe. Many companies have encountered significant problems in protecting and defending intellectual property rights in certain foreign jurisdictions. This could make it difficult for us to stop the infringement of our patents or the misappropriation of our other intellectual property rights. For example, many foreign countries have compulsory licensing laws under which a patent owner must grant licenses to third parties. Consequently, we may not be able to prevent third parties from practicing our inventions in certain countries outside the United States and Europe or from selling or importing products made from our inventions in and into the United States or other jurisdictions. Competitors may use our technologies in jurisdictions where we have not obtained patent protection to develop and market their own products and, further, may export otherwise infringing products to territories where we have patent protection, if our ability to enforce our patents to stop infringing activities is inadequate. These products may compete with our products, and our patents or other intellectual property rights may not be effective or sufficient to prevent them from competing.

Proceedings to enforce our patent rights, whether successful or not, could result in substantial costs and divert our efforts and resources from other aspects of our business. Further, such proceedings could put our patents at risk of being invalidated, held unenforceable or interpreted narrowly; put our pending patent applications at risk of not issuing; and provoke third parties to assert claims against us. We may not prevail in any lawsuits that we initiate, and the damages or other remedies awarded, if any, may not be commercially meaningful.

Furthermore, while we intend to protect our intellectual property rights in major markets for our products, we cannot ensure that we will be able to initiate or maintain similar efforts in all jurisdictions in which we may wish to market our products, if approved. Accordingly, our efforts to protect our intellectual property rights in such countries may be inadequate.

Geo-political actions in the U.S. and in foreign countries (such as retaliatory measures by foreign countries in response to actions by the United States, in particular, tariffs) could increase the uncertainties and costs surrounding the prosecution or maintenance of our patent applications or those of any current or future licensors and the maintenance, enforcement or defense of our issued patents or those of any current or future licensors. For example, the United States and foreign government actions related to Russia's invasion of Ukraine may limit or prevent filing, prosecution, and maintenance of patent applications in Russia. Government actions may also prevent filing, prosecution and maintenance of issued patents in Russia. These circumstances could result in abandonment or lapse of our patents or patent applications, resulting in partial or complete loss of patent rights in Russia. Further, many foreign countries could threaten to impose retaliatory measures that may adversely impact our intellectual property rights in those countries. For example, on March 14, 2025, Brazil enacted Law No. 15.122/2025, known as the Economic Reciprocity Law, which provides a framework that allows for the suspension of obligations related to foreign entity's intellectual property rights. If such an event were to occur, it could have a material adverse effect on our business. In addition, jurisdictions outside of the U.S. could also permit our patents to be exploited without consent or compensation. In such circumstances we would not be able to prevent third parties from practicing our inventions or from selling or importing products made using our inventions in and into such jurisdictions. Accordingly, our competitive position may be impaired, and our business, financial condition, results of operations and prospects may be adversely affected.

***In order to protect our competitive position around our future product candidates, we may become involved in lawsuits to enforce our patents or other intellectual property, which could be expensive, time consuming and unsuccessful and which may result in our patents being found invalid or unenforceable.***

Competitors may seek to commercialize competitive products to our genome editing systems. In order to protect our competitive position, we may become involved in lawsuits asserting infringement of our patents, or misappropriation or other violations of other of our intellectual property rights. Litigation is expensive and time consuming and would likely divert the time and attention of our management and scientific personnel. There can be no assurance that we will have sufficient financial or other resources to file and pursue such infringement claims, which typically last for years before they are concluded. Additionally, we may be subject to claims of patent infringement during those proceedings, and delays caused by the federal agencies may increase the time period that we are subject to such claims. For example, administrative changes, including reduced staff and budgets experienced by the Patent and Trial Appeal Board, could further delay our ability to timely challenge any such patents. Even if we ultimately prevail in such claims, the monetary cost of such litigation and the diversion of the attention of our management and scientific personnel could outweigh any benefit we receive as a result of the proceedings.

If we file a patent infringement lawsuit against a perceived infringer, such a lawsuit could provoke the defendant to counterclaim that we infringe their patents and/or that our patents are invalid and/or unenforceable. In patent litigation in the United States, it is commonplace for a defendant to counterclaim alleging invalidity and/or unenforceability. In any patent litigation there is a risk that a court will decide that the asserted patents are invalid or unenforceable, in whole or in part, and that we do not have the right to stop the defendant from using the invention at issue. With respect to a counterclaim of invalidity, we cannot be certain that there is no invalidating prior art of which we and the patent examiner were unaware during prosecution. There is also a risk that, even if the validity of such patents is upheld, the court will construe the patent claims narrowly or decide that we do not have the right to stop the other party from using the invention at issue on the grounds that our patent claims do not cover the invention. If any of our patents are found invalid or unenforceable, or construed narrowly, our ability to stop the other party from launching a competitive product would be materially impaired. Further, such adverse outcomes could limit our ability to assert those patents against future competitors. Loss of patent protection would have a material adverse impact on our business.

Even if we establish infringement of any of our patents by a competitive product, a court may decide not to grant an injunction against further infringing activity, thus allowing the competitive product to continue to be marketed by the competitor. It is difficult to obtain an injunction in U.S. litigation and a court could decide that the competitor should instead pay us a "reasonable royalty" as determined by the court, and/or other monetary damages. A reasonable royalty or other monetary damages may or may not be an adequate remedy. Loss of exclusivity and/or competition from a related product would have a material adverse impact on our business.

Litigation often involves significant amounts of public disclosures. Such disclosures could have a materially adverse impact on our competitive position or our stock prices. During any litigation we would be required to produce voluminous records related to our patents and our research and development activities in a process called discovery. The discovery process may result in the disclosure of some of our confidential information. There could also be public announcements of the results of hearings, motions or other interim proceedings or developments. If securities analysts or investors perceive these results to be negative, it could adversely affect the price of our common shares.

Litigation is inherently expensive, and the outcome is often uncertain. Any litigation likely would substantially increase our operating losses and reduce our resources available for development activities. Further, we may not have sufficient financial or other resources to adequately conduct such litigation or proceedings. Some of our competitors may be able to sustain the costs of such litigation or proceedings more effectively than we can because of their substantially greater financial resources. As a result, we may conclude that even if a competitor is infringing any of our patents, the risk-adjusted cost of bringing and enforcing such a claim or action may be too high or not in the best interest of our company or our stockholders. In such cases, we may decide that the more prudent course of action is to simply monitor the situation or initiate or seek some other non-litigious action or solution.

If in the future, we in-license any patent rights, we may not have the right to file a lawsuit for infringement and may have to rely on a licensor to enforce these rights for us. If we are not able to directly assert our licensed patent rights against infringers or if a licensor does not vigorously prosecute any infringement claims on our behalf, we may have difficulty competing in certain markets where such potential infringers conduct their business, and our commercialization efforts may suffer as a result.

Concurrently with an infringement litigation, third parties may also be able to challenge the validity of our patents before administrative bodies in the United States or abroad. Such mechanisms include re-examination, post grant review and equivalent proceedings in foreign jurisdictions, e.g., opposition proceedings. Such proceedings could result in revocation or amendment of our patents in such a way that they no longer cover our products, potentially negatively impacting any concurrent litigation.

***If we are sued for infringing intellectual property rights of third parties, such litigation could be costly and time consuming and could prevent or delay us from developing or commercializing our genome editing systems.***

Our commercial success depends, in part, on our ability to develop, manufacture, market and sell our genome editing systems without infringing, misappropriating or otherwise violating the intellectual property and other proprietary rights of third parties. However, our research, development and commercialization activities may be subject to claims that we infringe, misappropriate or otherwise violate patents or other intellectual property rights owned or controlled by third parties. Third parties may have U.S. and non-U.S. issued patents and pending patent applications relating to compounds, methods of manufacturing compounds and/or methods of use for the treatment of the disease indications for which we are developing our genome editing systems. If any third-party patents or patent applications are found to cover our genome editing systems, or their methods of use or manufacture, we may not be free to manufacture or market such genome editing systems as planned without obtaining a license, which may not be available on commercially reasonable terms, or at all.

There is a substantial amount of intellectual property litigation in the biotechnology and pharmaceutical industries, and we may become party to, or threatened with, litigation or other adversarial proceedings regarding intellectual property rights with respect to our genome editing systems, including patent infringement lawsuits in the U.S. or abroad. There may be third-party patents or patent applications with claims to materials, formulations, methods of manufacture or methods for treatment related to the composition, use or manufacture of our genome editing systems. Third parties may assert infringement claims against us based on existing patents that they own or in-license or patents that may grant to them (or which they may in-license) in the future, regardless of the merit of such patents or infringement claims. If our defenses to such assertions of infringement were unsuccessful, we could be liable for a court-determined reasonable royalty on our existing sales and further damages to the patent owner (or licensee), such as lost profits. Such royalties and damages could be significant. If we are found to have willfully infringed the claims of a third party's patent, the third party could be awarded treble damages and attorney's fees. Further, unless we obtain a license to such patent, we may be precluded from commercializing the infringing genome editing system. Any of the aforementioned could have a material adverse effect on our business, financial condition, results of operations and prospects.

While we perform periodic searches for relevant patents and patent applications with respect to our genome editing systems, including Cas proteins and therapeutic applications, we cannot guarantee the completeness or thoroughness of any of our patent searches or analyses including, but not limited to, the identification of relevant patents, the scope of patent claims or the expiration of relevant patents, nor can we be certain that we have identified each and every patent and pending application in the United States and abroad that is relevant to or necessary for the commercialization of any of our genome editing systems in any jurisdiction. Because patent applications can take many years to issue, there may be currently pending patent applications which may later result in issued patents that any of our genome editing systems may be accused of infringing. In addition, third parties may obtain patents in the future and claim that use of our technologies infringes upon these patents. Accordingly, third parties may assert infringement claims against us based on intellectual property rights that exist now or arise in the future. The outcome of intellectual property litigation is subject to uncertainties that cannot be adequately quantified in advance. The pharmaceutical and biotechnology industries have produced a significant number of patents, and it may not always be clear to industry participants, including us, which patents cover various types of products or methods of use or manufacture. The scope of protection afforded by a patent is subject to interpretation by the courts, and the interpretation is not always uniform. If we were sued for patent infringement, we would need to demonstrate that the relevant product or methods of using the product either do not infringe the patent claims of the relevant patent or that the patent claims are invalid or unenforceable, and we may not be able to do this. Proving invalidity is difficult. For example, in the United States, proving invalidity requires a showing of clear and convincing evidence to overcome the presumption of validity enjoyed by issued patents. Even if we are successful in these proceedings, we may incur substantial costs and the time and attention of our management and scientific personnel could be diverted in pursuing these proceedings, which could significantly harm our business and operating results. In addition, parties making claims against us may be able to sustain the costs of complex patent litigation more effectively than we can because they have substantially greater resources, and we may not have sufficient resources to bring these actions to a successful conclusion.

Numerous third-party U.S. and foreign issued patents and pending patent applications exist in the fields in which we are developing genome editing systems. Our genome editing systems make use of CRISPR-based technology, which is a field that is highly active for patent filings and complex litigation. As of July 2025, it was reported that approximately 21,000 patent families worldwide cover CRISPR related inventions and their uses. That number has continued to increase. The extensive patent filings related to CRISPR make it difficult for us to assess the full extent of relevant patents and pending applications that may cover our genome editing systems and their use or manufacture. There may be third-party patents or patent applications with claims to materials, formulations, methods of manufacture or methods for treatment related to the use or manufacture of our genome editing systems. We are aware of multiple patents and patent applications directed to CRISPR technologies, Cas molecules, and their uses in genome editing. For example, we are aware of patent portfolios related to CRISPR/Cas genome editing systems that are owned or co-owned by Sigma Aldrich, Stanford University and Agilent Technologies, the Broad Institute and/or Harvard University and/or the Massachusetts Institute of Technology (“MIT”), and Targetgene Biotechnologies. We are also aware of patent portfolios related to base editing systems that are owned or co-owned by Beam Therapeutics, the Broad Institute and/or Harvard University and/or MIT, the University of California, Duke University, Kobe University, the Max Planck Institute, Wageningen University, ASC Therapeutics Inc, CRISPR Therapeutics, Bayer Healthcare LLC, Board of Regents of The University of Texas System and Bioray Laboratories. We are also aware of patent portfolios related to CRISPR associated transposase/retro-transposase (“CAST”) systems that are owned or co-owned by the Broad Institute, Arbor Biotechnologies, and the University of Rochester.

Intellectual property litigation is common in the biotechnology space and multiple parties have engaged in litigation to protect and enforce their CRISPR/Cas related patent estates. For example, patents and patent applications directed to catalytically-active Cas9 systems have been the subject of extensive adversarial patent office proceedings. These proceedings include USPTO Patent Trial and Appeal Board (“PTAB”) proceedings involving the Broad Institute and the University of California regarding the priority of inventions with respect to certain U.S. patents and patent applications each owns directed to catalytically-active Cas9. Our genome editing technologies do not use catalytically-active Cas9 and we are not aware of any valid third-party patents or patent applications that we believe cover our Cas-related genome editing system and proprietary technology. However, we may not have identified all relevant third-party patents and patent applications. Therefore, there can be no assurance that third parties will not assert patents against us in the future or that our patents and patent applications will not be challenged. Any litigation brought against us or our patents or patent applications, even if meritless, could have a material adverse effect on our business, financial condition, results of operations and prospects.

If we are found to infringe, misappropriate or otherwise violate a third party’s intellectual property rights, we could be forced, including by court order, to cease developing, manufacturing or commercializing the infringing product. Alternatively, we may be required to obtain a license from such third party in order to use the infringing technology and continue developing, manufacturing or marketing the infringing product. If we were required to obtain a license to continue to manufacture or market the affected product, we may be required to pay substantial royalties or grant cross-licenses to our patents. Even if we were able to obtain a license, it could be nonexclusive, thereby giving our competitors and other third parties access to the same technologies licensed to us. We cannot assure you that any such license will be available on acceptable terms, if at all.

Ultimately, we could be prevented from commercializing a product, or be forced to cease some aspect of our business operations as a result of claims of patent infringement or violation of other intellectual property rights. Further, the outcome of intellectual property litigation is subject to uncertainties that cannot be adequately quantified in advance, including the demeanor and credibility of witnesses and the identity of any adverse party. This is especially true in intellectual property cases that may turn on the testimony of experts as to technical facts upon which experts may reasonably disagree. Furthermore, we may not be able to obtain any required license on commercially reasonable terms or at all. Even if we were able to obtain a license, it could be non-exclusive, thereby giving our competitors access to the same technologies licensed to us; alternatively or additionally it could include terms that impede or destroy our ability to compete successfully in the commercial marketplace. In addition, we could be found liable for significant monetary damages, including treble damages and attorneys' fees if we are found to have willfully infringed a patent. A finding of infringement could prevent us from commercializing a product or force us to cease some of our business operations, which could harm our business. Claims that we have misappropriated the confidential information or trade secrets of third parties could have a similar negative impact on our business. Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation or administrative proceedings, there is a risk that some of our confidential information could be compromised by disclosure. In addition, any uncertainties resulting from the initiation and continuation of any litigation could have material adverse effect on our ability to raise additional funds or otherwise have a material adverse effect on our business, results of operations, financial condition and prospects.

***Others may challenge inventorship or claim an ownership interest in our intellectual property which could expose it to litigation and have a significant adverse effect on its prospects.***

Determinations of inventorship can be subjective. While we undertake to accurately identify correct inventorship of inventions made on our behalf by our employees, consultants and contractors, an employee, consultant or contractor may disagree with our determination of inventorship and assert a claim of inventorship. Any disagreement over inventorship could result in our being forced to defend our determination of inventorship in a legal action which could result in substantial costs and be a distraction to our senior management and scientific personnel.

While we typically require employees, consultants and contractors who may develop intellectual property on our behalf to execute agreements assigning such intellectual property to us, we may be unsuccessful in obtaining execution of assignment agreements with each party who in fact develops intellectual property that we regard as our own. Moreover, even when we obtain agreements assigning intellectual property to us, the assignment of intellectual property rights may not be self-executing or the assignment agreements may be breached. In either case, we may be forced to bring claims against third parties, or defend claims that they may bring against us, to determine the ownership of what we regard as our intellectual property. Furthermore, individuals executing agreements with us may have preexisting or competing obligations to a third party, such as an academic institution, and thus an agreement with us may be ineffective in perfecting ownership of inventions developed by that individual. If we are unsuccessful in obtaining assignment agreements from an employee, consultant or contractor who develops intellectual property on our behalf, the employee, consultant or contractor may later claim ownership of the invention. Any disagreement over ownership of intellectual property could result in our losing ownership, or exclusive ownership, of the contested intellectual property, paying monetary damages and/or being enjoined from clinical testing, manufacturing and marketing of the affected product candidate(s). Even if we are successful in prosecuting or defending against such claims, litigation could result in substantial costs and be a distraction to our senior management and scientific personnel.

***We may be subject to claims by third parties asserting that our employees or we have misappropriated their intellectual property or claiming ownership of what we regard as our own intellectual property.***

Many of our current and former employees and our licensors' current and former employees, including our senior management, were previously employed at universities or at other biotechnology or pharmaceutical companies, including some which may be competitors or potential competitors. Although we take commercially reasonable steps to ensure that our employees do not use the proprietary information, know-how or trade secrets of others in their work for us, including incorporating such intellectual property into our genome editing systems, we may be subject to claims that we or these employees have misappropriated the intellectual property of a third party.

If we or any of our employees are accused of misappropriating the proprietary information, know-how or trade secrets of a third party, we may be forced to defend such claims in litigation. If we are found to have misappropriated the intellectual property rights of a third party, we may be forced to pay monetary damages, sustain reputational damage, lose key personnel, or lose valuable intellectual property rights. Further, it may become necessary for us to obtain a license from such third party to commercialize any of our genome editing systems. Such a license may not be available on commercially reasonable terms or at all. Any of the aforementioned could materially affect the commercialization of any of our genome editing systems. Even if we are successful in defending against such claims, litigation could result in substantial costs and be a distraction to management.

***If we are unable to protect the confidentiality of our trade secrets, our business and competitive position would be harmed.***

We consider proprietary trade secrets or confidential know-how and unpatented know-how to be important to our business. We may rely on trade secrets or confidential know-how to protect our technology, especially where patent protection is believed by us to be of limited value. We expect to rely on third parties for future manufacturing of our genome editing systems, and any future genome editing systems. We also expect to collaborate with third parties on the development of our genome editing systems and any future genome editing systems. As a result of the aforementioned collaborations, we must, at times, share trade secrets with our collaborators. We also conduct joint research and development programs that may require us to share trade secrets under the terms of our research and development partnerships or similar agreements.

Trade secrets or confidential know-how can be difficult to maintain as confidential. To protect this type of information against disclosure or appropriation by competitors, our policy is to require our employees, consultants, contractors and advisors to enter into confidentiality agreements and, if applicable, material transfer agreements, consulting agreements or other similar agreements with us prior to beginning research or disclosing proprietary information. These agreements typically limit the rights of the third parties to use or disclose our confidential information, including our trade secrets. However, current or former employees, consultants, contractors and advisers may unintentionally or willfully disclose our confidential information to competitors, and confidentiality agreements may not provide an adequate remedy in the event of unauthorized disclosure of confidential information. The need to share trade secrets and other confidential information increases the risk that such trade secrets become known by our competitors, are inadvertently incorporated into the technology of others, or are disclosed or used in violation of these agreements. Given that our proprietary position is based, in part, on our know-how and trade secrets, a competitor's discovery of our trade secrets or other unauthorized use or disclosure would impair our competitive position and may have an adverse effect on our business and results of operations. Enforcing a claim that a third party obtained illegally and is using trade secrets or confidential know-how is expensive, time consuming and unpredictable. The enforceability of confidentiality agreements may vary from jurisdiction to jurisdiction.

In addition, these agreements typically restrict the ability of our advisors, employees, third-party contractors and consultants to publish data potentially relating to our trade secrets, although our agreements may contain certain limited publication rights. Despite our efforts to protect our trade secrets, our competitors may discover our trade secrets, either through breach of our agreements with third parties, independent development or publication of information by any of our third-party collaborators. A competitor's discovery of our trade secrets would impair our competitive position and have an adverse impact on our business.

***We may need to acquire or license additional intellectual property from third parties, and such licenses may not be available or may not be available on commercially reasonable terms.***

A third party may hold intellectual property, including patent rights that are important or necessary to the development of our genome editing systems. It may be necessary for us to use the patented or proprietary technology of one or more third parties to commercialize our current and future product candidates.

The licensing and acquisition of third-party intellectual property rights is a competitive area, and a number of more established companies may pursue strategies to license or acquire third-party intellectual property rights that we may consider attractive. These established companies may have a competitive advantage over us due to their size, cash resources and greater clinical development. If we are unable to acquire such intellectual property outright, or obtain licenses to such intellectual property from such third parties when needed or on commercially reasonable terms, our ability to commercialize our genome editing systems, if approved, would likely be delayed or we may have to abandon development of that product genome editing systems or program and our business and financial condition could suffer.

If we in-license additional genome editing systems in the future, we might become dependent on proprietary rights from third parties with respect to those genome editing systems. Any termination of such licenses could result in the loss of significant rights and would cause material adverse harm to our ability to develop and commercialize any genome editing systems subject to such licenses. Even if we are able to in-license any such necessary intellectual property, it could be on nonexclusive terms, including with respect to the use, field or territory of the licensed intellectual property, thereby giving our competitors and other third parties access to the same intellectual property licensed to us. In-licensing IP rights could require us to make substantial licensing and royalty payments. Patents licensed to us could be put at risk of being invalidated or interpreted narrowly in litigation filed by or against our licensors or another licensee or in administrative proceedings. If any in-licensed patents are invalidated or held unenforceable, we may not be able to prevent competitors or other third parties from developing and commercializing competitive products.

We may not have the right to control the prosecution, maintenance, enforcement or defense of patents and patent applications that we license from third parties. In such cases, we would be reliant on the licensor to take any necessary actions. We cannot be certain that such licensor would act with our best interests in mind, or in compliance with applicable laws and regulations, or that their actions would result in valid and enforceable patents. For example, it is possible that a licensor's actions in enforcing and/or defending a patent licensed by use may be less vigorous than had we conducted them ourselves. Any of the foregoing could have a material adverse effect on our business, financial condition, results of operations and prospects.

Disputes may also arise between us and our licensors regarding intellectual property subject to a license agreement, including:

- the scope of rights granted under the license agreement and other interpretation-related issues;
- our financial or other obligations under the license agreement;
- whether and the extent to which our technology and processes infringe intellectual property of the licensor that is not subject to the licensing agreement;
- our right to sublicense patent and other rights to third parties under collaborative development relationships;
- our diligence obligations with respect to the use of licensed technology in relation to our development and commercialization of our genome editing systems and what activities satisfy those diligence obligations;
- the ownership of inventions and know-how resulting from the joint creation or use of intellectual property by our licensors and us and our partners; and
- the priority of invention of patented technology.

If disputes over intellectual property that we have licensed prevent or impair our ability to maintain our current licensing arrangements on acceptable terms, we may be unable to successfully develop and commercialize the affected genome editing systems.

The risks described elsewhere pertaining to our intellectual property rights also apply to the intellectual property rights that we may own or in-license now or in the future, and any failure by us or our licensors to obtain, maintain, defend and enforce these rights could have an adverse effect on our business. In some cases we may not have control over the prosecution, maintenance or enforcement of the patents that we license, and may not have sufficient ability to provide input into the patent prosecution, maintenance and defense process with respect to such patents, and potential future licensors may fail to take the steps that we believe are necessary or desirable in order to obtain, maintain, defend and enforce the licensed patents.

***If our trademarks and trade names are not adequately protected, then we may not be able to build name recognition in our trademarks of interest and our business may be adversely affected.***

Our trademarks or trade names may be challenged, infringed, circumvented or declared generic or determined to be infringing on other marks. We rely on both registration and common law protection for our trademarks. As a means to enforce our trademark rights and prevent infringement, we may be required to file trademark claims against third parties or initiate trademark opposition proceedings. This can be expensive and time-consuming, particularly for a company of our size. We may not be able to protect our rights to these trademarks and trade names or may be forced to stop using these names, which we need for name recognition by potential partners or customers in our markets of interest. At times, competitors may adopt trade names or trademarks similar to ours, thereby impeding our ability to build brand identity and possibly leading to market confusion. In addition, there could be potential trade name or trademark infringement claims brought by owners of other registered trademarks or trademarks that incorporate variations of our registered or unregistered trademarks or trade names. Over the long-term, if we are unable to establish name recognition based on our trademarks and trade names, then we may not be able to compete effectively and our business may be adversely affected. During trademark registration proceedings, we may receive rejections. Although we would be given an opportunity to respond to those rejections, we may be unable to overcome such rejections. In addition, in the USPTO and in comparable agencies in many foreign jurisdictions, third parties are given an opportunity to oppose pending trademark applications and to seek to cancel registered trademarks. Opposition or cancellation proceedings may be filed against our trademarks, and our trademarks may not survive such proceedings.

Moreover, any name we propose to use for our products in the United States must be approved by the FDA, regardless of whether we have registered it, or applied to register it, as a trademark. The FDA typically conducts a review of proposed product names, including an evaluation of potential for confusion with other product names. If the FDA objects to any of our proposed product names, we may be required to expend significant additional resources in an effort to identify a usable substitute name that would qualify under applicable trademark laws, not infringe the existing rights of third parties and be acceptable to the FDA. If we are unable to establish name recognition based on our trademarks and trade names, we may not be able to compete effectively and our business may be adversely affected.

***Intellectual property rights do not necessarily address all potential threats to our business.***

The degree of future protection afforded by our intellectual property rights is uncertain because intellectual property rights have limitations, and may not adequately protect our business, or permit us to maintain our competitive advantage. The following examples are illustrative:

- others may be able to make products that are competitive to our genome editing systems or any of our future genome editing systems but that are not covered by the claims of our patent portfolio;
- others may independently develop similar or alternative technologies or otherwise circumvent any of our technologies without infringing our patent portfolio;
- we or any of our collaborators might not have been the first to invent the inventions covered by our patent portfolio;
- we or any of our collaborators might not have been the first to file patent applications covering certain of the patents or patent applications that we or they own or have obtained a license, or will own or will have obtained a license;
- it is possible that our pending patent applications or those that we may file in the future will not lead to issued patents;
- others may have access to the same intellectual property rights licensed to us on a non-exclusive basis in the future;
- issued patents that we own may not provide us with any competitive advantage, or may be held invalid or unenforceable, including as a result of legal challenges by our competitors;
- our competitors might conduct research and development activities in countries where we do not have patent rights, or in countries where research and development safe harbor laws exist, and then use the information learned from such activities to develop competitive products for sale in our major commercial markets;
- ownership of our patent portfolio may be challenged by third parties;
- the patents of third parties or pending or future applications of third parties, if issued, may have an adverse effect on our business;
- patent enforcement is expensive and time-consuming and difficult to predict; thus, we may not be able to enforce any of our patents against a competitor; and
- we may choose not to file a patent application for certain inventions, instead choosing to rely on trade secret protection, and a third party may subsequently file a patent covering such intellectual property.

**Risks Related to our Common Stock, and Operating as a Public Company**

***The market price of our common stock has been, and may continue to be, volatile, which could result in substantial losses for investors.***

The market price for our common stock may be influenced by those factors discussed in this “Risk Factors” section and many others, some of which may include:

- the success of existing or new competitive product candidates or technologies;
- the timing and results of preclinical studies and clinical trials for any product candidates we may develop;
- failure or discontinuation of any of our development and research programs;
- results of any preclinical studies, clinical trials or regulatory approvals of product candidates of our competitors, or announcements about new research programs or product candidates of our competitors;
- developments or changing views regarding the use of genetic therapies, including those that involve genome editing;
- commencement or termination of collaborations for our product development and research programs;
- regulatory or legal developments in the United States and other countries;
- developments or disputes concerning patent applications, issued patents or other intellectual property or proprietary rights;
- the recruitment or departure of key personnel;
- the level of expenses related to any of our research programs, clinical development programs or product candidates that we may develop;

- the results of our efforts to develop product candidates;
- actual or anticipated changes in estimates as to financial results, development timelines or recommendations by securities analysts, if any, that cover our stock;
- announcement or expectation of additional financing efforts;
- sales of our common stock by us, our insiders or other stockholders, including under our ATM Sales Agreement with Jefferies;
- expiration of market stand-off or lock-up agreements;
- variations in our financial results or those of companies that are perceived to be similar to us;
- changes in the structure of healthcare payment systems;
- market conditions in the pharmaceutical and biotechnology sectors;
- the outcome of any pending or future litigation;
- general economic, industry and market conditions, such as those arising from U.S.-China relations, interest rate fluctuations and inflation or deflation;
- global health pandemics, epidemics or outbreaks of a contagious illness;
- geopolitical tensions or the outbreak of hostilities or war, including from the ongoing Russia-Ukraine conflict, the current conflict in Israel and Gaza (including any escalation or expansion), the current conflict in Venezuela and increasing tensions between China and Taiwan; and
- the other factors described in this “Risk Factors” section.

In recent years, the stock market in general and the market for pharmaceutical and biotechnology companies in particular, has experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to changes in the operating performance of the companies whose stock is experiencing those price and volume fluctuations. In particular, in relation to uncertainty around inflation and the U.S. Federal Reserve’s measures to slow inflation, the stock market has been exceptionally volatile. Market and industry factors may seriously affect the market price of our common stock, regardless of our actual operating performance. Following periods of such volatility in the market price of a company’s securities, securities class action litigation has often been brought against that company.

***We are currently, and may in the future be, subject to securities litigation, which is expensive and could divert management attention. This lawsuit, and potential similar or related lawsuits, could result in substantial damages, divert management’s time and attention from our business, and have a material adverse effect on our financial position, results of operations or cash flows.***

Securities-related class action lawsuits and/or derivative lawsuits have often been brought against companies, including pharmaceutical and biotechnology companies, that experience volatility in the market price of their securities. This risk is especially relevant for us because we often experience significant stock price volatility in connection with our development programs.

On September 26, 2024, a class action complaint was filed in the U.S. District Court for the Northern District of California against our company and certain of our officers and certain of our current and former directors, captioned *Vreeland v. Metagenomi Inc. et al.*, No. 5:24-cv-06765 (the “Securities Action”). The Securities Action alleges violations of Section 11 of the Securities Act against all defendants and control person violations of Section 15 against the individuals. The Securities Action alleges that the defendants made misleading statements and omitted to disclose material information concerning our collaboration with Moderna in our registration statement and final prospectus materials filed in January 2024 and February 2024. The Securities Action seeks, among other things, compensatory damages as well as costs and expenses, including attorneys’ fees and expert fees. On February 10, 2025, the court appointed Mingxi Bi as lead plaintiff, and the lead plaintiff filed an amended complaint on April 4, 2025. On May 16, 2025, all defendants filed a motion to dismiss the claims of the Securities Action, which motion is currently pending. We intend to defend vigorously against this litigation.

At this time, no assessment can be made as to the likely outcome, therefore we cannot determine the likelihood of loss, if any, nor estimate a range of possible loss. We may also become subject to additional securities class action lawsuits in the future. The cost of defending against these types of claims against us or the ultimate resolution of such claims, whether by settlement or adverse court decision, may harm our business. Further, potential claimants may be encouraged to bring lawsuits based on a settlement from us or adverse court decisions against us. We cannot currently assess the likely outcome of such suits, but the commencement and/or resolution of such suits (particularly if the outcome were negative), could have a material adverse effect on our reputation, financial position, results of operations and cash flows. They could also cause a decline in the market price of our common stock.

***We have incurred, and continue to incur, increased costs as a result of operating as a public company, and our management is required to devote substantial time to compliance initiatives and corporate governance practices.***

As a public company, and particularly after we are no longer an “emerging growth company,” we have incurred, and continue to incur, significant legal, accounting and other expenses that we did not incur as a private company. The Sarbanes-Oxley Act of 2002 (“SOX”), the Dodd-Frank Wall Street Reform and Consumer Protection Act, the listing requirements of the Nasdaq Global Select Market and other applicable securities rules and regulations impose various requirements on public companies, including establishment and maintenance of effective disclosure and financial controls and corporate governance practices. We expect that we will need to hire additional accounting, finance and other personnel in connection with our efforts to comply with the requirements of being a public company. Our management and other personnel will need to devote a substantial amount of time towards maintaining compliance with these requirements. These requirements will increase our legal and financial compliance costs and will make some activities more time-consuming and costly. For example, we expect that the rules and regulations applicable to us as a public company may make it more difficult and more expensive for us to obtain director and officer liability insurance, which could make it more difficult for us to attract and retain qualified members of our Board. We are currently evaluating these rules and regulations and cannot predict or estimate the amount of additional costs we may incur or the timing of such costs. These rules and regulations are often subject to varying interpretations, in many cases due to their lack of specificity, and, as a result, their application in practice may evolve over time as new guidance is provided by regulatory and governing bodies. This could result in continuing uncertainty regarding compliance matters and higher costs necessitated by ongoing revisions to disclosure and governance practices.

Pursuant to SOX Section 404, we are required to furnish a report by our management on our internal control over financial reporting. However, while we remain an emerging growth company, we will not be required to include an attestation report on internal control over financial reporting issued by our independent registered public accounting firm. To achieve compliance with SOX Section 404 within the prescribed period, we have been engaged in a process to document and evaluate our internal control over financial reporting, which is both costly and challenging. In this regard, we will need to continue to dedicate internal resources and engage outside consultants, adopt a detailed work plan to assess and document the adequacy of internal control over financial reporting, continue steps to improve control processes as appropriate, validate through testing that controls are functioning as documented and implement a continuous reporting and improvement process for internal control over financial reporting. Despite our efforts, there is a risk that in the future we will not be able to conclude, within the prescribed timeframe or at all, that our internal control over financial reporting is effective as required by SOX Section 404. This could result in an adverse reaction in the financial markets due to a loss of confidence in the reliability of our financial statements.

***We do not know whether a market will be sustained for our common stock or what the market price of our common stock will be, and, as a result, it may be difficult for you to sell your shares of our common stock.***

Although our common stock is listed on the Nasdaq Global Select Market, an active or liquid market in our common stock may not be sustained. If a market for our common is not sustained, it may be difficult for you to sell your shares of common stock at an attractive price or at all. We cannot predict the prices at which our common stock will trade. It is possible that in one or more future periods our results of operations may be below the expectations of public market analysts and investors, and, as a result of these and other factors, the price of our common stock may fall.

***If securities analysts do not publish research or reports about our business or if they publish negative evaluations of our stock, the price of our stock could decline.***

The trading market for our common stock will rely in part on the research and reports that industry or financial analysts publish about us or our business. If one or more of the analysts covering our business downgrade their evaluations of our stock, the price of our stock could decline. If one or more of these analysts cease to cover our stock, we could lose visibility in the market for our stock, which in turn could cause our stock price to decline.

***Future sales of our common stock in the public market could cause our stock price to fall.***

Our stock price could decline as a result of sales of a large number of shares of our common stock or the perception that these sales could occur. These sales, or the possibility that these sales may occur, also might make it more difficult for us to sell equity securities in the future at a time and at a price that we deem appropriate.

We may offer and sell up to \$75.0 million of shares of our common stock from time to time pursuant to the ATM Sales Agreement that we have entered into with Jefferies. As of December 31, 2025, we have not sold any shares of our common stock pursuant to the ATM Sales Agreement. Depending on market liquidity at the time, sales of our common stock pursuant to the ATM Sales Agreement may cause the trading price of our common stock to decline.

As of December 31, 2025, 37,620,668 shares of our common stock were outstanding. Shares of unvested restricted common stock will become available for sale immediately upon the vesting of such shares, as applicable, and the expiration of any applicable market stand-off or lock-up agreements. Shares issued upon the exercise of stock options pursuant to future awards that may be granted under our equity incentive plans or pursuant to future awards granted under those plans will become available for sale in the public market to the extent permitted by the provisions of applicable vesting schedules, any applicable market stand-off and lock-up agreements and Rule 144 and Rule 701 under the Securities Act.

In addition, in the future, we may issue additional shares of common stock or other equity or debt securities convertible into common stock in connection with a financing, acquisition, litigation settlement, employee arrangements or otherwise. Any such issuance could result in substantial dilution to our existing stockholders and could cause our stock price to decline.

***We are an “emerging growth company” and a “smaller reporting company,” and the reduced disclosure requirements applicable to emerging growth companies and smaller reporting companies may make our common stock less attractive to investors.***

We are an “emerging growth company,” as defined in the Jumpstart Our Business Startups Act of 2012 (the “JOBS Act”), and may remain an emerging growth company for up to five years. For so long as we remain an emerging growth company, we are permitted and plan to rely on exemptions from certain disclosure requirements that are applicable to other public companies that are not emerging growth companies. These exemptions include not being required to comply with the auditor attestation requirements of SOX Section 404, not being required to comply with any requirement for a supplement to the auditor’s report providing additional information about the audit and the financial statements, reduced disclosure obligations regarding executive compensation and exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved. As a result, the information we provide stockholders is different than the information that is available with respect to other public companies.

We are also a “smaller reporting company,” meaning that the market value of our stock held by non-affiliates is less than \$700 million and our annual revenue is less than \$100 million during the most recently completed fiscal year. We may continue to be a smaller reporting company if either (i) the market value of our stock held by non-affiliates is less than \$250 million or (ii) our annual revenue is less than \$100 million during the most recently completed fiscal year and the market value of our stock held by non-affiliates is less than \$700 million. If we are a smaller reporting company at the time we cease to be an emerging growth company, we may continue to rely on exemptions from certain disclosure requirements that are available to smaller reporting companies. Specifically, as a smaller reporting company we may choose to present only the two most recent fiscal years of audited financial statements in our Annual Report on Form 10-K and, similar to emerging growth companies, smaller reporting companies have reduced disclosure obligations regarding executive compensation.

We cannot predict whether investors will find our common stock less attractive if we rely on these exemptions. If some investors find our common stock less attractive as a result, there may be a less active trading market for our common stock and our stock price may be more volatile.

***Insiders have substantial influence over us, which could limit your ability to affect the outcome of key transactions, including a change of control.***

Our directors and executive officers and their affiliates beneficially own a significant amount of our outstanding common stock. As a result, these stockholders, if they act together, will be able to influence our management and affairs and all matters requiring stockholder approval. For example, these stockholders may be able to control elections of directors, amendments of our organizational documents or approval of any merger, sale of assets or other major corporate transaction. This concentration of ownership may have the effect of delaying or preventing a change in control of our company and might affect the market price of our common stock.

***We do not expect to pay any dividends for the foreseeable future. Investors may never obtain a return on their investment.***

You should not rely on an investment in our common stock to provide dividend income. We do not anticipate that we will pay any dividends to holders of our common stock in the foreseeable future. Instead, we plan to retain any earnings to maintain and expand our existing operations. In addition, any future credit facility may contain terms prohibiting or limiting the amount of dividends that may be declared or paid on our common stock. Accordingly, investors must rely on sales of their common stock after price appreciation, which may never occur, as the only way to realize any return on their investment. As a result, investors seeking cash dividends should not purchase our common stock.

***If we fail to establish and maintain proper and effective internal control over financial reporting, our operating results and our ability to operate our business could be harmed.***

Ensuring that we have adequate internal financial and accounting controls and procedures in place so that we can produce accurate financial statements on a timely basis is a costly and time-consuming effort that needs to be re-evaluated frequently. Our internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements in accordance with generally accepted accounting principles. Pursuant to SOX Section 404, we are required to provide a management report on internal control over financial reporting.

Implementing any appropriate changes to our internal controls may distract our officers and employees, entail substantial costs to modify our existing processes and take significant time to complete. These changes may not, however, be effective in maintaining the adequacy of our internal controls, and any failure to maintain that adequacy or consequent inability to produce accurate financial statements on a timely basis could increase our operating costs and harm our business. In addition, investors' perceptions that our internal controls are inadequate or that we are unable to produce accurate financial statements on a timely basis cause investors to lose confidence in the accuracy and completeness of our financial reports and could cause the market price of our common stock to decline significantly.

***Our disclosure controls and procedures may not prevent or detect all errors or acts of fraud.***

We are subject to the periodic reporting requirements of the Exchange Act. We designed our disclosure controls and procedures to reasonably assure that information we must disclose in reports we file or submit under the Exchange Act is accumulated and communicated to management, and recorded, processed, summarized and reported within the time periods specified in the rules and forms of the SEC. We believe that any disclosure controls and procedures or internal controls and procedures, no matter how well-conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met.

These inherent limitations include the facts that judgments in decision-making can be faulty and that breakdowns can occur because of simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people or by an unauthorized override of the controls. Accordingly, because of the inherent limitations in our control system, misstatements due to error or fraud may occur and not be detected.

***Our second amended and restated bylaws designate specific courts as the exclusive forum for certain litigation that may be initiated by our stockholders, which could limit stockholders' ability to obtain a favorable judicial forum for disputes with us.***

Pursuant to our second amended and restated bylaws, unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware is the sole and exclusive forum for any state law claims for (i) any derivative action or proceeding brought on our behalf; (ii) any action asserting a claim of or based on a breach of a fiduciary duty owed by any director, officer or other employee of ours to us or our stockholders; (iii) any action asserting a claim pursuant to any provision of the DGCL, our amended and restated certificate of incorporation, as amended, or our second amended and restated bylaws or as to which the DGCL confers jurisdiction on the Court of Chancery of the State of Delaware; or (iv) any action asserting a claim governed by the internal affairs doctrine (the "Delaware Forum Provision"). The Delaware Forum Provision will not apply to any causes of action arising under the Securities Act or the Exchange Act. Our second amended and restated bylaws further provide that unless we consent in writing to the selection of an alternative forum, the federal district courts of the United States shall be the sole and exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act, the Exchange Act, the respective rules and regulations promulgated thereunder or the Federal Forum Provision. In addition, our second amended and restated bylaws provide that any person or entity purchasing or otherwise acquiring any interest in shares of our capital stock is deemed to have notice of and consented to the Delaware Forum Provision and the Federal Forum Provision; provided, however, that stockholders cannot and will not be deemed to have waived our compliance with the federal securities laws and the rules and regulations thereunder.

We recognize that the Delaware Forum Provision and the Federal Forum Provision in our second amended and restated bylaws may impose additional litigation costs on stockholders in pursuing any such claims, particularly if the stockholders do not reside in or near the State of Delaware. Additionally, the forum selection clauses in our second amended and restated bylaws may limit our stockholders' ability to bring a claim in a judicial forum that they find favorable for disputes with us or our directors, officers or employees, which may discourage the filing of lawsuits against us and our directors, officers and employees, even though an action, if successful, might benefit our stockholders. In addition, while the Delaware Supreme Court ruled in March 2020 that federal forum selection provisions purporting to require claims under the Securities Act be brought in federal court are "facially valid" under Delaware law, there is uncertainty as to whether other courts will enforce our Federal Forum Provision. If the Federal Forum Provision is found to be unenforceable, we may incur additional costs associated with resolving such matters. The Federal Forum Provision may also impose additional litigation costs on stockholders who assert that the provision is not enforceable or invalid. The Court of Chancery of the State of Delaware and the federal district courts of the United States may also reach different judgments or results than would other courts, including courts where a stockholder considering an action may be located or would otherwise choose to bring the action, and such judgments may be more or less favorable to us than our stockholders.

***Provisions in our amended and restated certificate of incorporation, as amended, and second amended and restated bylaws and Delaware law may have anti-takeover effects that could discourage an acquisition of us by others, even if an acquisition would be beneficial to our stockholders, and may prevent attempts by our stockholders to replace or remove our current management.***

Our amended and restated certificate of incorporation, as amended, and second amended and restated bylaws and Delaware law contain provisions that may have the effect of discouraging, delaying or preventing a change in control of us or changes in our management that stockholders may consider favorable, including transactions in which you might otherwise receive a premium for your shares. Our amended and restated certificate of incorporation, as amended, and second amended and restated bylaws include provisions that:

- authorize "blank check" preferred stock, which could be issued by our Board without stockholder approval and may contain voting, liquidation, dividend and other rights superior to our common stock;
- create a classified Board whose members serve staggered three-year terms;
- specify that special meetings of our stockholders can be called only by our Board;
- prohibit stockholder action by written consent;
- establish an advance notice procedure for stockholder approvals to be brought before an annual meeting of our stockholders, including proposed nominations of persons for election to our Board;
- provide that vacancies on our Board may be filled only by a majority of directors then in office, even though less than a quorum;
- provide that our directors may be removed only for cause;
- specify that no stockholder is permitted to cumulate votes at any election of directors;
- expressly authorized our Board to make, alter, amend or repeal our second amended and restated bylaws; and
- require supermajority votes of the holders of our common stock to amend specified provisions of our amended and restated certificate of incorporation, as amended, and second amended and restated bylaws.

These provisions, alone or together, could delay or prevent hostile takeovers and changes in control or changes in our management. These provisions could also limit the price that investors might be willing to pay in the future for shares of our common stock, thereby depressing the market price of our common stock.

In addition, because we are incorporated in the State of Delaware, we are governed by the provisions of Section 203 of the DGCL, which prohibits a person who owns in excess of 15 percent of our outstanding voting stock from merging or combining with us for a period of three years after the date of the transaction in which the person acquired in excess of 15 percent of our outstanding voting stock, unless the merger or combination is approved in a prescribed manner.

Any provision of our amended and restated certificate of incorporation, as amended, second amended and restated bylaws or Delaware law that has the effect of delaying or deterring a change in control could limit the opportunity for our stockholders to receive a premium for their shares of our common stock and could also affect the price that some investors are willing to pay for our common stock.

***Adverse developments affecting the financial services industry could adversely affect our current and projected business operations and our financial condition and results of operations.***

Adverse developments that affect financial institutions, such as events involving liquidity that are rumored or actual, have in the past and may in the future lead to bank failures and market-wide liquidity problems. For example, on March 10, 2023, Silicon Valley Bank (“SVB”) was closed by the California Department of Financial Protection and Innovation, which appointed the Federal Deposit Insurance Corporation (“FDIC”) as receiver. Similarly, on March 12, 2023, Signature Bank was also swept into receivership. The U.S. Department of Treasury, the Federal Reserve Board (the “Federal Reserve”), and the FDIC released a statement that indicated that all depositors of SVB would have access to all of their funds, including funds held in uninsured deposit accounts, after only one business day of closure. The U.S. Department of Treasury, FDIC and Federal Reserve have announced a program to provide up to \$25 billion of loans to financial institutions secured by certain of such government securities held by financial institutions to mitigate the risk of potential losses on the sale of such instruments, widespread demands for customer withdrawals or other liquidity needs of financial institutions for immediately liquidity may exceed the capacity of such program. There is no guarantee, however, that the U.S. Department of Treasury, FDIC and Federal Reserve will provide access to uninsured funds in the future in the event of the closure of other banks or financial institutions, or that they would do so in a timely fashion.

Following SVB’s failure, we have diversified our cash deposit holdings between multiple financial institutions, and we have not experienced any adverse impact to our current and projected business operations, financial condition or results of operations as a result of the closure of SVB or any other banks. However, uncertainty remains over liquidity concerns in the broader financial services industry, and our business, our business partners, or industry as a whole may be adversely impacted in ways that we cannot predict at this time. If, for example, other banks and financial institutions enter receivership or become insolvent in the future in response to financial conditions affecting the banking system and financial markets, our ability to access our existing cash, cash equivalents and available-for-sale marketable securities may be threatened.

Although we expect to assess our banking relationships as we believe necessary or appropriate, our access to cash in amounts adequate to finance or capitalize our current and projected future business operations could be significantly impaired by factors that affect the financial institutions with which we have banking relationships, and in turn, us.

These factors could include, among others, events such as liquidity constraints or failures, the ability to perform obligations under various types of financial, credit or liquidity agreements or arrangements, disruptions or instability in the financial services industry or financial markets, or concerns or negative expectations about the prospects for companies in the financial services industry. These factors could also include factors involving financial markets or the financial services industry generally. The results of events or concerns that involve one or more of these factors could include a variety of material and adverse impacts on our current and projected business operations and our financial condition and results of operations. These could include, but may not be limited to, delayed access to deposits or other financial assets or the uninsured loss of deposits or other financial assets; or termination of cash management arrangements and/or delays in accessing or actual loss of funds subject to cash management arrangements.

In addition, widespread investor concerns regarding the U.S. or international financial systems could result in less favorable commercial financing terms, including higher interest rates or costs and tighter financial and operating covenants, or systemic limitations on access to credit and liquidity sources, thereby making it more difficult for us to acquire financing on acceptable terms or at all. Any decline in available funding or access to our cash and liquidity resources could, among other risks, adversely impact our ability to meet our operating expenses, financial obligations or fulfill our other obligations, result in breaches of our financial and/or contractual obligations or result in violations of federal or state wage and hour laws. Any of these impacts, or any other impacts resulting from the factors described above or other related or similar factors not described above, could have material adverse impacts on our liquidity and our current and/or projected business operations and financial condition and results of operations.

In addition, one or more of our critical vendors, third party manufacturers, or other business partners could be adversely affected by any of the liquidity or other risks that are described above, which in turn, could have a material adverse effect on our current and/or projected business operations and results of operations and financial condition. Any business partner bankruptcy or insolvency, or any breach or default by a business partner, or the loss of any significant supplier relationships, could result in material adverse impacts on our current and/or projected business operations and financial condition.

**Item 1B. Unresolved Staff Comments.**

None

## **Item 1C. Cybersecurity.**

### **Cybersecurity Risk Management and Strategy**

We have implemented a cybersecurity program in accordance with our risk profile and business size that is informed by recognized industry standards, including elements of the National Institute of Standards and Technology Cybersecurity Framework. We leverage the cybersecurity services of third-party vendors, including virtual chief information security officer services, to support our cybersecurity risk management program.

Our cybersecurity risk management program is comprised of a number of components, including but not limited to a risk assessment incorporating elements of industry-standard frameworks, penetration testing, endpoint detection and response, email security, system log monitoring and alert platform, and security operations center, functioning 24x7. We have an employee training program that includes annual cybersecurity awareness training that is reinforced by frequent phishing campaigns. We also maintain an incident response plan and related processes to help guide our response to cybersecurity incidents.

As part of our cybersecurity risk management program, we take a risk-based approach to the evaluation of third-party vendors, and apply mitigations and processes based on our evaluation of the sensitivity of the data accessed by the vendor and the maturity of the vendor's programs. Our current vendor evaluation procedures include, as appropriate, a review of certain vendors' security standards.

We have not identified any cybersecurity incidents or threats that have materially affected us or are reasonably likely to materially affect us, including our business strategy, results of operations or financial condition. However, like other companies in our industry, we and our third-party vendors have experienced threats relating to our and our third-party vendors' information systems. For more information, please see "Item 1A, Risk Factors."

### **Governance Related to Cybersecurity Risks**

Our Head of Information Technology ("Head of IT") is responsible for the strategic leadership and direction of the Company's information technology organization. Our current Head of IT has over thirty years of experience leading information technology teams in the life sciences industry. The Head of IT reviews threat intelligence, and receives updates from the Company's third-party providers, to help identify risks from cybersecurity threats.

The Head of IT reports to the Chief Financial Officer (CFO), and attends regular meetings with the CFO to discuss updates relating to the Company's cybersecurity program. The Head of IT also provides cybersecurity updates on a quarterly basis to the Company's executive team.

The Board of Directors has delegated oversight of cybersecurity risk management to the Audit Committee. The Audit Committee reviews the Company's major cybersecurity risk exposures and the steps that the Company's management has taken to monitor and control such exposures. Specifically, the Audit Committee reviews updates on data management, security initiatives, and significant existing and emerging cybersecurity risks, including material cybersecurity incidents, the impact on the Company and its stakeholders of any significant cybersecurity incident, and any disclosure obligations arising from any such incidents.

## **Item 2. Properties.**

Our corporate headquarters is located in Emeryville, California, where we sublease and occupy approximately 75,662 square feet of combined office, research and laboratory space at 5959 Horton Street, 7th Floor, Emeryville, California 94608. The current term of our sublease expires in March 2031. The company also leases approximately 23,155 square feet of office space at 1485 Park Avenue, Emeryville, California 94608 and approximately 23,851 square feet of laboratory and office space at 1545 Park Avenue, Emeryville, California 94608.

We believe that our facilities are adequate for our current needs and for the foreseeable future. To meet the future needs of our business, we may lease additional or alternate space. We believe that suitable additional or substitute space at commercially reasonable terms will be available as needed to accommodate any future expansion of our operations.

**Item 3. Legal Proceedings.**

From time to time, we may be a party to litigation or subject to claims incident to the ordinary course of business. Although the results of litigation and claims cannot be predicted with certainty, we currently believe that the final outcome of these ordinary course matters will not have a material adverse effect on our business. Regardless of the outcome, litigation can have an adverse impact on us because of defense and settlement costs, diversion of management resources and other factors. For information regarding legal proceedings, refer to “Note 8. Commitments and Contingencies – Legal contingencies” in the accompanying “Notes to Financial Statements” in Part II, Item 8 of this Annual Report on Form 10-K which information is incorporated by reference herein.

**Item 4. Mine Safety Disclosures.**

Not applicable.

## PART II

### Item 5. Market for Registrant’s Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities.

#### Market Information

Our common stock began trading on the Nasdaq Global Select Market under the symbol “MGX” on February 9, 2024. Prior to this date, there was no public trading market for our common stock.

#### Stockholders

As of March 2, 2026, we had approximately 37,620,530 holders of record of our common stock. The approximate number of holders is based upon the actual number of holders registered in our records at such date and excludes holders in “street name” or persons, partnerships, associations, corporations, or other entities identified in security positions listings maintained by depository trust companies.

#### Dividends

We have not declared or paid cash dividends on our capital stock since our inception. We intend to retain future earnings, if any, to finance the operation and expansion of our business and do not anticipate paying any cash dividends to holders of common stock in the foreseeable future. Any future determination regarding the declaration and payment of dividends, if any, will be at the discretion of our Board of Directors, subject to applicable laws, and will depend on then-existing conditions, including our financial condition, operating results, contractual restrictions, capital requirements, business prospects and other factors our Board of Directors may deem relevant. In addition, our ability to pay cash dividends on our capital stock in the future may be limited by the terms of any future debt or preferred securities we issue or any credit facilities we enter into.

#### Securities authorized for issuance under equity compensation plans

Information about our equity compensation plans is incorporated herein by reference to Part III, Item 12 of this Annual Report on Form 10-K.

#### Unregistered Sales of Equity Securities

None.

#### Issuer Purchases of Equity Securities

None.

#### Item 6. [Reserved]

## **Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations.**

*You should read the following discussion and analysis of our financial condition and results of operations together with our financial statements and the related notes included elsewhere in this Annual Report on Form 10-K. As discussed in the section titled “Special Note Regarding Forward-Looking Statements,” the following discussion and analysis contains forward-looking statements that involve risks and uncertainties, such as statements regarding our plans, objectives, expectations, intentions and projections. Our actual results could differ materially from those discussed in these forward-looking statements. Factors that could cause or contribute to such differences include, but are not limited to, those discussed in the “Risk Factors” section of this Annual Report on Form 10-K. Our historical results are not necessarily indicative of the results that may be expected for any period in the future.*

*This discussion and analysis generally covers our financial condition and results of operations for the year ended December 31, 2025, as compared to the year ended December 31, 2024. For our discussion of the year ended December 31, 2024, as compared to the year ended December 31, 2023, refer to Item 7 of Part II, “Management’s Discussion and Analysis of Financial Condition and Results of Operations” located in our Annual Report on Form 10-K for the year ended December 31, 2024.*

### **Overview**

We are an in vivo genome editing company capitalizing on our proprietary technologies to create curative genetic medicines for patients. We were founded on the science of metagenomics, the study of genetic materials recovered from the natural environment, to discover and develop a suite of novel gene editing tools potentially capable of correcting any type of genetic mutation found anywhere in the human genome. We leverage machine learning and artificial intelligence to enhance our signature gene editing systems. In late 2025, we made the decision to strategically reprioritize our pipeline and discovery efforts to focus our resources on driving forward our lead programs that utilize our most advanced, signature gene-editing capabilities with the highest probability of success while maintaining financial discipline to drive sustainable growth and long-term value. We increased our focus on high-value programs in disease indications with well-understood biology and clearly defined clinical development and regulatory pathways to accelerate programs with the potential to deliver therapeutic benefits of gene editing to patients.

### **Wholly Owned Programs**

#### ***MGX-001 – Novel, Durable, Site-Specific Genome Integration for Expression of Factor VIII (FVIII)***

MGX-001 is designed to provide curative, life-long protection from bleeding events and joint damage in adults and children with hemophilia A from a single administration. MGX-001 is designed to insert a Factor VIII (“FVIII”) DNA cassette into a “safe harbor location” within an intron of the albumin gene, leveraging the strong native albumin promoter to express FVIII.

In November 2025, we announced preclinical data from a dose range finding study of MGX-001 in non-human primates (“NHPs”), where MGX-001 demonstrated curative FVIII activity with best-in-class treatment potential. The data also demonstrated clear dose dependency across both the AAV and LNP components of MGX-001, informing our clinical dose-regimen strategy. This data builds upon an earlier study, where we demonstrated durable FVIII activity over an approximately 19-month study in NHPs, with an encouraging safety profile. MGX-001 has also shown no detectable off-target editing in a series of orthogonal assays employed to discover and validate potential off-target sites.

In the fourth quarter of 2025, we completed a pre-IND meeting for the development of MGX-001. We remain on track for regulatory submission to advance a global clinical program, including an investigational new drug application (“IND”) in the fourth quarter of 2026, and subject to regulatory clearance, initiate clinical trials in 2027.

#### ***MGX-001 Large Gene Integration System for Secreted Protein Deficiency Disorders***

Leveraging the MGX-001 site-specific genome integration system, we are pursuing other secreted protein deficiencies. In late 2025, we demonstrated the curative potential of the MGX-001 large gene integration system in an additional secreted protein disorder, antithrombin III (“AT-III”) deficiency, in an in vivo study in NHPs.

## **Ionis Collaboration**

In November 2022, we entered into a Collaboration and License Agreement with Ionis Pharmaceuticals, Inc. (“Ionis”) to research, develop and commercialize investigational medicines using our genome editing technologies. We are currently in Wave 1 of our collaboration with Ionis Pharmaceuticals, Inc. (“Ionis”) focused on four disease targets in cardio metabolic indications. In December 2025, we announced apolipoprotein C-III (“APOC3”) for the treatment of high triglycerides (“HTG”) as the third collaboration target in Wave 1, and we jointly presented NHP preclinical data at the Nature Conference, “Cracking the Code: Nucleic Acid Medicines Coming of Age.” Additional targets in Wave 1 include transthyretin (“TTR”) for transthyretin amyloidosis, angiotensinogen (“AGT”) for refractory hypertension, and one undisclosed program. All four targets in Wave 1 are in the lead optimization phase of development and are designed to achieve protein reduction via gene knockout.

## **Reorganization and Reverse Stock Split**

We previously operated as a Delaware limited liability company under the name Metagenomi Technologies, LLC (“Metagenomi LLC”). On January 24, 2024, we completed a series of transactions pursuant to which Metagenomi LLC merged with and into its wholly-owned subsidiary Metagenomi, Inc., a Delaware corporation, with Metagenomi, Inc. continuing as the surviving corporation (the “Reorganization”). In connection with the Reorganization, (i) all of the outstanding common unitholders of Metagenomi LLC received shares of common stock of Metagenomi, Inc., (ii) all of the outstanding redeemable convertible preferred unitholders of Metagenomi LLC received shares of redeemable convertible preferred stock of Metagenomi, Inc. with the same rights and privileges and (iii) certain holders of profits interests in Metagenomi LLC received shares of common stock or unvested restricted common stock in Metagenomi, Inc. as determined by the applicable provisions of the Amended and Restated Limited Liability Company Agreement in effect immediately prior to the Reorganization. In connection with the Reorganization, by operation of law, Metagenomi, Inc. acquired all assets of Metagenomi LLC, and assumed all of its liabilities and obligations. The Reorganization was a non-taxable transaction to Metagenomi, Inc. for U.S. income tax purposes.

On January 26, 2024, following the Reorganization, Metagenomi, Inc. effected a reverse stock split of the shares of common stock at a ratio of 1-for-1.74692 (the “Reverse Stock Split”). Immediately prior to the closing of the IPO, all of the then-outstanding shares of redeemable convertible preferred stock converted into 23,935,594 shares of common stock.

## **Initial Public Offering**

On February 13, 2024, we completed our initial public offering (“IPO”) in which we issued 6,250,000 shares of our common stock at a price to the public of \$15.00 per share. We received net proceeds of approximately \$80.7 million, after deducting underwriting discounts and commissions and other offering costs totaling approximately \$13.0 million.

## **ATM Program**

On March 17, 2025, we entered into an Open Market Sale Agreement<sup>SM</sup> (the “ATM Sales Agreement”) with Jefferies LLC (“Jefferies”), pursuant to which we may issue and sell, from time to time and at our sole discretion, shares of our common stock, through Jefferies as the sales agent, by any method permitted by law deemed to be an “at the market” (“ATM”) offering as defined in Rule 415(a)(4) promulgated under the Securities Act, having an aggregate offering price of up to \$75.0 million. We will pay Jefferies a commission fee of up to 3.0% of the gross proceeds of any shares sold through Jefferies under the ATM Sales Agreement, and have also provided Jefferies with customary indemnification and contribution rights. As of December 31, 2025, no shares have been sold under the ATM Sales Agreement.

Since our inception, we have devoted substantially all of our resources to organizing and staffing our company, business planning, raising capital, research and development activities, building our intellectual property portfolio and providing general and administrative support for these operations. We have historically financed our operations primarily through issuing redeemable convertible preferred stock and convertible promissory notes, sales of our common stock and entering into collaboration agreements.

## Macroeconomic Trends

Unfavorable conditions in the economy in the United States (“U.S.”) and abroad may negatively affect the growth of our business and our results of operations. For example, macroeconomic events, including, inflationary pressures, interest rate and currency rate fluctuations, increased U.S. trade tariffs, reciprocal and retaliatory tariffs from other countries, and trade disputes with other countries, new laws and regulations enacted by the Trump administration, including, but not limited to, the One Big Beautiful Bill Act (the “OBBBA”), economic slowdown or recession, banking instability, monetary policy changes, geopolitical tensions or the outbreak of hostilities or war, including from the ongoing Russia-Ukraine conflict, the current conflict in Israel and Gaza (including any escalation or expansion), the current conflict in Venezuela and increasing tensions between China and Taiwan, have led to economic uncertainty and volatility globally. The effect of macroeconomic conditions may not be fully reflected in our results of operations until future periods. To date, the macroeconomic trends discussed above have not had a material adverse impact on our business, financial condition or results of operations, but we continue to monitor these developments closely. If, however, economic uncertainty increases or the global economy worsens, our business, financial condition and results of operations may be harmed. For further discussion of the potential impacts of macroeconomic events on our business, financial condition, and operating results, refer to the section titled “Risk Factors” included elsewhere in this Annual Report on Form 10-K.

## Collaboration and License Agreements

As part of our strategy, we have entered into license and collaboration agreements with third parties for one or more of our programs or product candidates we may develop. For example, in September 2025, we entered into the Acuitas License Agreement to license certain Acuitas LNP technology, including LNP patents, formulation processes, and analytical characterization methods for manufacturing products that incorporate our company's proprietary genome editing constructs formulated with Acuitas LNP technology, to research, develop, sell, and commercialize certain licensed products in connection with a single target. In November 2022, we entered into a Collaboration and License Agreement with Ionis to research, develop and commercialize investigational medicines using our genome editing technologies. Refer to Note 7, “Significant Agreements”, in our financial statements included in Part II, Item 8 of this Annual Report on Form 10-K for additional information related to the terms of the agreements between us and our collaborators.

## Components of Results of Operations

### *Collaboration Revenue*

We have not generated any revenue from product sales and do not expect to generate any revenue from the sale of products for the foreseeable future. Our ability to generate product revenues will depend on the successful development and eventual commercialization of any product candidates that we identify. If we fail to complete the development of any future product candidates in a timely manner or to obtain regulatory approval for such product candidates, our ability to generate future revenue and our results of operations and financial position would be materially adversely affected.

To date, all of our revenue consists of collaboration revenue, earned from collaboration agreements with Moderna (prior to the termination of the Moderna Agreement), Ionis and Affini-T (prior to the termination of the Affini-T Agreement). These agreements may include the following types of promised goods or services: (i) grants of licenses; (ii) performance of research and development services and (iii) participation on joint research and/or development committees. They also may include options to obtain licenses to our intellectual property or to extend the term of the research activities. Our revenues under such collaboration agreements were \$25.2 million and \$52.3 million for the years ended December 31, 2025 and 2024, respectively.

For additional information about our revenue recognition policy related to our collaboration agreements, refer to Note 2, “Summary of Significant Accounting Policies”, in our financial statements included in Part II, Item 8 of this Annual Report on Form 10-K.

### *Operating Expenses*

#### *Research and Development*

The largest component of our total operating expenses since our inception has been research and development activities. Research and development expenses consist primarily of personnel costs for research and development employees, including stock-based compensation; the costs of acquiring research and development supplies and services; manufacturing process development costs; the research and development expenses that we share with our collaboration partners for co-development programs; other outside services and consulting costs; and allocated facilities, information technology and overhead expenses. Research and development costs are expensed as incurred.

We have not reported program costs since our inception because we have not historically tracked or recorded our research and development expenses on a program-by-program basis. We use our personnel and infrastructure resources across the breadth of our research and development activities, which are directed toward developing our platform.

We expect our research and development expenses will increase substantially as we advance our programs through their planned preclinical and clinical development.

#### *General and Administrative*

General and administrative expenses consist primarily of personnel costs, including stock-based compensation expense, and other expenses for outside professional services, including legal fees relating to intellectual property and corporate matters; professional fees for accounting, auditing, consulting and tax services; insurance costs; administrative travel expenses; website development costs; marketing and public relations costs; and facilities, information technology and other allocated overhead costs.

We anticipate that our general and administrative expenses will increase in the future to support our increased research and development activities. We also expect to continue to incur costs associated with being a public company and maintaining controls over financial reporting, including costs of accounting, audit, legal, regulatory and tax-related services associated with maintaining compliance with Nasdaq and SEC requirements, director and officer insurance costs, and investor and public relations costs.

#### **Total Other Income, Net**

Total other income, net, includes interest income from our investments in available-for-sale marketable securities and changes in the fair value of our investments in Affini-T.

#### **Benefit from Income Taxes**

Prior to the Reorganization, Metagenomi LLC was taxed under the provisions of Subchapter K — Partners and Partnerships of the Internal Revenue Code. Under those provisions, Metagenomi LLC did not pay federal or state corporate income taxes on its taxable income. Instead, each member included net operating income or loss for Metagenomi LLC on its individual return. After the Reorganization and name change, Metagenomi Therapeutics, Inc. is a corporation for tax purposes and is subject to income taxes.

As of December 31, 2025, we had net operating loss carryforwards of \$175.3 million and \$213.5 million for federal and state income tax purposes, respectively, available to reduce future taxable income, if any. The federal net operating loss carryforwards do not expire. State net operating loss carryforwards begin expiring in 2037. As of December 31, 2025, we had \$3.3 million federal research and development credit carryforwards, which begin expiring in 2045. As of December 31, 2025, we had state research and development credit carryforwards of \$6.1 million, which do not expire.

A valuation allowance is provided for deferred tax assets where the recoverability of the assets is uncertain. The determination to provide a valuation allowance is dependent upon the assessment of whether it is more likely than not that sufficient future taxable income will be generated to utilize the deferred tax assets. Based on the weight of the available evidence, which includes our entities' historical operating losses and forecast of future losses, we have provided a full valuation allowance against the deferred tax assets resulting from the tax loss and credits carried forward.

Utilization of the net operating loss and credit carryforwards may be subject to a substantial annual limitation due to an ownership change limitation as provided by section 382 of the Internal Revenue Code, as amended, and similar state provisions. The annual limitation may result in the expiration of net operating losses and credits before utilization. In the event that we have a change of ownership, utilization of the net operating loss and tax credit carryforwards may be restricted.

## Results of Operations

### Comparison of the Years Ended December 31, 2025 and 2024

The following table summarizes our results of operations for the periods indicated (in thousands):

	Years Ended December 31,		Change
	2025	2024	
Collaboration revenue	\$ 25,210	\$ 52,295	\$ (27,085)
Operating expenses:			
Research and development	94,433	109,179	(14,746)
General and administrative	26,790	32,017	(5,227)
Total operating expenses	121,223	141,196	(19,973)
Loss from operations	(96,013)	(88,901)	(7,112)
Other income (expense):			
Interest income	9,470	14,722	(5,252)
Change in fair value of long-term investments	(1,292)	(9,185)	7,893
Other expense, net	(91)	(207)	116
Total other income, net	8,087	5,330	2,757
Net loss before benefit from income taxes	(87,926)	(83,571)	(4,355)
Benefit from income taxes	58	5,513	(5,455)
Net loss	\$ (87,868)	\$ (78,058)	\$ (9,810)

### Collaboration Revenue

Collaboration revenue included the following for the periods indicated (in thousands):

	Years Ended December 31,		Change
	2025	2024	
Ionis	\$ 24,621	\$ 30,439	\$ (5,818)
Moderna	—	18,742	(18,742)
Affini-T	564	3,114	(2,550)
Other	25	—	25
Total collaboration revenue	\$ 25,210	\$ 52,295	\$ (27,085)

Collaboration revenue decreased \$27.1 million for the year ended December 31, 2025, as compared to the prior year, primarily driven by a \$18.7 million decrease in revenue related to the Moderna Agreement due to the recognition of all remaining deferred revenue upon termination of the Agreement during the year ended December 31, 2024, a \$5.8 million decrease in revenue related to the Ionis Agreement due to the timing of work performed and a \$2.6 million decrease in revenue related to the Affini-T Agreement.

### Research and Development Expenses

The following table summarizes our research and development expenses for the periods indicated (in thousands):

	Years Ended December 31,		Change
	2025	2024	
Employee-related expenses	\$ 32,063	\$ 38,317	\$ (6,254)
Stock-based compensation	4,817	8,891	(4,074)
Research and development supplies and services	30,067	33,237	(3,170)
Facilities and overhead costs	23,964	25,409	(1,445)
Professional services and consulting	3,522	3,325	197
Total research and development expense	\$ 94,433	\$ 109,179	\$ (14,746)

Research and development expenses decreased \$14.7 million for the year ended December 31, 2025, as compared to the prior year, primarily due to decreases of \$6.3 million in employee-related expenses and \$4.1 million in stock-based compensation expense primarily due to a decrease in headcount, \$3.2 million in research and development supplies and services primarily due to a decrease in lab supplies purchased as a result of the decrease in headcount, and \$1.4 million in facilities and allocated overhead, including repairs and maintenance costs and common facilities related expenses allocated to research and development.

### ***General and Administrative Expenses***

General and administrative expenses decreased \$5.2 million for the year ended December 31, 2025, as compared to the prior year, primarily related to decreases of \$2.5 million in professional services and consulting costs primarily as more of this work is now performed in-house, \$1.3 million in employee-related expenses and \$0.3 million in stock-based compensation expense primarily due to a decrease in headcount and \$1.1 million in facilities and allocated overhead.

### ***Total Other Income, Net***

Total other income, net, increased \$2.8 million for the year ended December 31, 2025, as compared to the prior year, primarily due to a net change in the fair value of our long-term investment in Affini-T in which the Company recognized a loss of \$1.3 million during the year ended December 31, 2025 compared to a loss of \$9.2 million during the year ended December 31, 2024, partially offset by a \$5.3 million decrease in interest income.

### ***Benefit from Income Taxes***

Benefit from income taxes decreased by \$5.5 million for the year ended December 31, 2025, as compared to the prior year. The benefit for income taxes for the year ended December 31, 2025 was primarily due to a return to provision adjustment related to the prior year return. The benefit from income taxes for the year ended December 31, 2024 was primarily due to our intention to elect to carry back the 2024 research and development credit to the prior year, in addition to a return to provision adjustment related to the prior year return.

### ***Liquidity and Capital Resources***

#### ***Sources of Liquidity***

Since our inception, we have historically funded our operations primarily through sales of our redeemable convertible preferred units and convertible promissory notes, which generated approximately \$351.7 million in aggregate gross proceeds, in addition to net proceeds of approximately \$80.7 million received in February 2024 upon the closing of our IPO. Additionally, through December 31, 2025, we received approximately \$120.0 million in upfront cash payments from collaboration and licensing agreements.

On March 17, 2025, we entered into the ATM Sales Agreement with Jefferies, pursuant to which we may issue and sell shares of our common stock from time to time and at our sole discretion, through Jefferies as our sales agent, by any method permitted that is deemed to be an “at the market offering” as defined in Rule 415(a)(4) promulgated under the Securities Act having an aggregate offering price of up to \$75.0 million. As of December 31, 2025, we have not sold any shares under the ATM Sales Agreement.

Our revenue to date has been generated from collaboration agreements. We will not generate revenue from product sales unless and until we successfully initiate and complete clinical development and obtain regulatory approval for one or more product candidates. If we obtain regulatory approval for any product candidate and do not enter into a commercialization partnership, we expect to incur significant expenses related to developing our commercialization capability to support product sales, manufacturing, marketing, and distribution. As a result, we will need substantial additional funding to support our continuing operations and pursue our growth strategy. Until such time as we can generate significant revenue from product sales, if ever, we expect to finance our operations through a combination of equity offerings, debt financings, collaborations, strategic alliances, and marketing, distribution or licensing arrangements with third parties. We may be unable to raise additional funds or enter into such other agreements or arrangements when needed on favorable terms, or at all. If we fail to raise capital or enter into such agreements as and when needed, we may have to significantly delay, reduce or eliminate the development and commercialization of our platform or delay our pursuit of potential in-licenses or acquisitions.

We have incurred significant operating losses since inception and we expect to continue to incur substantial losses for the foreseeable future. Our net losses were \$87.9 million and \$78.1 million for the years ended December 31, 2025 and 2024, respectively. As of December 31, 2025, we had an accumulated deficit of \$310.9 million.

#### ***Future Funding Requirements***

We expect our short and long-term expenses to increase substantially in connection with our ongoing activities, particularly as we advance our portfolio towards candidate nomination and preclinical trials. In addition, we expect to incur additional costs associated with operating as a public company. The timing and amount of our operating expenditures will depend largely on:

- the timing and progress of research and development, preclinical and clinical development activities;
- the number, scope and duration of clinical trials required for regulatory approval of our future product candidates;
- the costs, timing, and outcome of regulatory review of any of our future product candidates;

- the costs of manufacturing clinical and commercial supplies of our future product candidates, including internal manufacturing facilities and contracting with other vendors;
- the costs and timing of future commercialization activities, including product manufacturing, marketing, sales and distribution, for any of our future product candidates for which we receive regulatory approval;
- the cost of filing and prosecuting our patent applications, and maintaining and enforcing our patents and other intellectual property rights;
- the costs to acquire or in-license product candidates, intellectual property and technologies;
- our ability to maintain existing, and establish new, strategic collaborations, licensing or other arrangements, and the financial terms of any such agreements, including the timing and amount of any future milestone, royalty or other payments due under any such agreement;
- any product liability or other lawsuits related to our future product candidates;
- our implementation of various computerized informational systems and efforts to enhance operational systems;
- expenses incurred to attract, hire and retain skilled personnel;
- the additional costs of legal, audit, accounting, compliance, insurance, investor relations and other expenses related to operating as a public company;
- our ability to establish a commercially viable pricing structure and obtain approval for coverage and adequate reimbursement from third-party and government payers;
- the extent to which we acquire or invest in businesses, products, and technologies;
- the effect of competing technological and market developments; and
- the impact of health epidemics, pandemics, and other widespread outbreaks of contagious disease, as well as other factors, including inflation, economic uncertainty and geopolitical tensions, which may exacerbate the magnitude of the factors discussed above.

As of December 31, 2025, we had \$160.8 million in cash, cash equivalents and available-for-sale marketable securities. Based on our current operating plan, we estimate that our existing cash, cash equivalents and available-for-sale marketable securities will be sufficient to fund our projected operating expenses and capital expenditure requirements for at least the next 12 months from the date of issuance of this Annual Report on Form 10-K. We have based this estimate on assumptions that may prove to be wrong, and we could exhaust our available capital resources sooner than we expect. See “Liquidity and Capital Resources” and “Risk Factors—Risks Related To Our Financial Position and Need for Additional Capital.” We expect that we will require additional funding to continue our current research development activities; develop, maintain, expand and protect our intellectual property portfolio; further develop our platform; and hire additional research, clinical and scientific personnel. If we receive regulatory approval for any of our product candidates, we expect to incur significant commercialization expenses related to product manufacturing, sales, marketing and distribution, depending on where we choose to commercialize our products.

Until such time, if ever, as we can generate substantial product revenue, we expect to finance our short and long-term cash needs through a combination of equity offerings, debt financings, collaborations, strategic alliances, and marketing, distribution or licensing arrangements with third parties. To the extent that we raise additional capital through the sale of equity or convertible debt securities, ownership interest for existing investors may be materially diluted, and the terms of such securities could include liquidation or other preferences that adversely affect existing investors’ rights as a stockholder. Debt financing and preferred equity financing, if available, may involve agreements that include restrictive covenants that limit our ability to take specified actions, such as incurring additional debt, making capital expenditures or declaring dividends. If we raise funds through collaborations, strategic alliances or marketing, distribution or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, future revenue streams, research programs or product candidates or grant licenses on terms that may not be favorable to us. If we are unable to raise additional funds through equity or debt financings or other arrangements when needed, we may be required to delay, reduce or eliminate our product development or future commercialization efforts, or grant rights to develop and market product candidates that we would otherwise prefer to develop and market ourselves.

## Cash Flows

The following table summarizes our sources and uses of cash for the periods presented (in thousands):

	Years Ended December 31,	
	2025	2024
Net cash used in operating activities	\$ (88,892)	\$ (109,073)
Net cash provided by (used in) investing activities	103,529	(88,157)
Net cash provided by (used in) financing activities	(356)	84,013
Net increase (decrease) in cash, cash equivalents and restricted cash	\$ 14,281	\$ (113,217)

### Cash Flows from Operating Activities

Net cash used in operating activities was \$88.9 million for the year ended December 31, 2025 and consisted primarily of our net loss of \$87.9 million and changes in our net operating assets and liabilities of \$22.1 million, partially offset by net non-cash charges of \$21.1 million. The net change in our operating assets and liabilities consisted primarily of a decrease of \$21.1 million in deferred revenue as we recognized revenue based on work performed under our collaboration agreements, a decrease of \$5.6 million in operating lease liabilities due to recurring payments under the existing lease agreements and a decrease \$1.6 million in accrued expenses and other current liabilities, partially offset by a decrease of \$4.3 million in prepaid expenses and other current assets primarily due to a decrease in other current assets as we received our 2023 tax refund, an increase of \$1.1 million in accounts payable and a decrease of \$1.0 million in accounts receivable. The net non-cash charges consisted primarily of \$11.9 million in stock-based compensation expense, \$5.3 million of depreciation expense, \$5.3 million in non-cash lease expense, a \$1.3 million charge related to the fair value of our investments in Affini-T and a \$0.5 million loss on the write-off of fixed assets, partially offset by \$3.0 million in amortization of discounts on available-for-sale marketable securities.

Net cash used in operating activities was \$109.1 million for the year ended December 31, 2024 and consisted primarily of our net loss of \$78.1 million and changes in our net operating assets and liabilities of \$59.7 million, partially offset by net non-cash charges of \$28.7 million. The net change in our operating assets and liabilities consisted primarily of a decrease of \$46.8 million in deferred revenue as we recognized revenue under our collaboration agreements, a decrease of \$3.4 million in operating lease liabilities due to recurring payments under the existing lease agreements, a decrease of \$3.3 million in income tax payable due to payment of our 2023 income tax liability, an increase of \$2.3 million in prepaid expenses and other current assets, a decrease of \$3.1 million in other non-current liabilities and a decrease of \$1.1 million in accounts payable due to the timing of payments to our vendors, offset by a decrease of \$1.2 million in accounts receivable. The net non-cash charges consisted primarily of \$16.2 million in stock-based compensation expense, a \$9.2 million charge related to the fair value of our investments in Affini-T, \$5.4 million of depreciation expense, \$4.6 million in non-cash lease expense, and a \$1.0 million loss on the write-off of fixed assets, partially offset by \$6.2 million in amortization of discounts on available-for-sale marketable securities and \$1.7 million in amortization of non-cash collaboration revenue related to the Affini-T Agreement.

### Cash Flows from Investing Activities

Net cash provided by investing activities for the year ended December 31, 2025 was \$103.5 million primarily due to net maturities of available-for-sale securities of \$104.1 million, partially offset by purchases of property and equipment of \$0.6 million.

Net cash used in investing activities for the year ended December 31, 2024 was \$88.2 million primarily due to net purchases of available-for-sale securities of \$84.7 million and purchases of property and equipment of \$3.1 million.

### Cash Flows from Financing Activities

Net cash used in financing activities for the year ended December 31, 2025 was \$0.4 million primarily due to a payment of deferred financing costs, partially offset by proceeds from our ESPP.

Net cash provided by financing activities for the year ended December 31, 2024 was \$84.0 million due to net proceeds from the issuance of our common stock in our IPO, net of issuance costs paid during the period.

## ***Contractual Obligations and Commitments***

### *Leases*

As of December 31, 2025, we leased our office and laboratory space under three lease agreements and one vivarium lease agreement. Remaining lease obligations under our non-cancelable leases were \$53.5 million as of December 31, 2025, including \$10.2 million payable through December 31, 2026 and \$43.3 million for the remainder of the leases' terms. For additional information on our leases and timing of future lease payments refer to Note 8, "Commitments and Contingencies", in our financial statements included in Part II, Item 8 of this Annual Report on Form 10-K.

### *Other Obligations*

We enter into contracts in the normal course of business with various third parties for preclinical research studies and supplies, and other services and products for operating purposes. These contracts are generally cancelable at any time by us upon prior written notice or are not material.

## **Recently Issued Accounting Pronouncements**

A description of recently issued accounting pronouncements that may potentially impact our financial position, results of operations or cash flows is disclosed in Note 2, "Summary of Significant Accounting Policies", to our financial statements included elsewhere in Part II, Item 8 of this Annual Report on Form 10-K.

## **Critical Accounting Policies and Significant Judgments and Estimates**

Our management's discussion and analysis of our financial condition and results of operations is based on our financial statements, which have been prepared in accordance with generally accepted accounting principles ("GAAP"). The preparation of these financial statements requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements, as well as the reported revenue generated and expenses incurred during the reporting periods.

On an ongoing basis, we evaluate our estimates and judgments, including but not limited to those related to revenue recognition under our collaboration agreements, stock-based compensation expense, the valuation of deferred tax assets, and uncertain income tax positions. These estimates and assumptions are monitored and analyzed by us for changes in facts and circumstances, and material changes in these estimates and assumptions could occur in the future. Our estimates are based on our historical experience and on various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Changes in estimates are reflected in reported results for the period in which they become known. Actual results may differ from these estimates under different assumptions or conditions. While our significant accounting policies are described in more detail in Note 2, "Summary of Significant Accounting Policies", to our financial statements included in Part II, Item 8 of this Annual Report on Form 10-K, we believe that the following accounting policies are those most critical to the judgments and estimates used in the preparation of our financial statements.

### ***Collaboration Arrangements and Revenue Recognition***

We apply judgment to determine whether a collaboration agreement is within the scope of revenue recognition, Accounting Standard Codification Topic 606, Revenue from Contract with Customers, or other accounting guidance at the effective date and throughout the term of the agreement. We perform the following five steps in determining the appropriate amount of revenue to be recognized as we fulfill our obligations under each of these agreements: 1) identification of the promised goods and services in the contract; 2) determination of whether the promised goods or services are performance obligations including whether they are distinct in the context of the contract; 3) measurement of the transaction price, including any constraint on variable consideration; 4) allocation of the transaction price to the performance obligations; and 5) recognition of revenue when, or as, we satisfy each performance obligation.

Promises in collaboration agreements may include (i) grants of licenses, (ii) performance of research and development services, and (iii) participation on joint research and/or development committees. They also may include options to obtain licenses to our intellectual property or to extend the term of the research activities. We assess whether each promise is a distinct performance obligation and should be accounted for separately or should be combined with other promises into one performance obligation. Judgment is required to determine whether the license to intellectual property is distinct from the research and development services or participation on steering committees. The event-based milestone payments, royalties and cost reimbursements represent variable consideration. We evaluate the probability that the event-based milestones will be achieved and estimates the amount to be included in the transaction price using the most likely amount method. We include cost reimbursement in the transaction price using the expected value method. Unlike other contingency payments, sales-based milestones and royalties are not included in the transaction price based on estimates at the inception of the contract, but rather, are included when sales or usage occur.

To estimate the transaction price, we include upfront payment and variable consideration, such as research and development milestones, reimbursement for our services, that is subject to a constraint. Amounts of variable consideration are included in the transaction price to the extent that it is probable that a significant reversal in the amount of cumulative revenue recognized will not occur and when the uncertainty associated with the variable consideration is subsequently resolved. These estimates are re-assessed each reporting period as required.

After we estimate the transaction price, we allocate it to the identified performance obligations based on the standalone selling price (“SSP”) of each distinct performance obligation. Judgment is required to determine the SSP. In instances where the SSP is not directly observable, such as when a license or service is not sold separately, the SSP is determined using information that may include market conditions and other observable inputs. When licenses are combined with other promises, we utilize our judgment to assess the nature of the combined performance obligation to determine whether the combined performance obligation is satisfied over time or at a point in time. If we conclude over time, we recognize revenue based on the measure of progress using an estimated cost-based input method each reporting period. In applying the cost-based input method, we measure actual costs incurred relative to budgeted costs to fulfill our performance obligation. These budgeted costs consist of our employee full-time equivalent hours plus allowable external (third-party) costs incurred. Management applies considerable judgment in estimating expected costs as such costs are key inputs when applying the cost-based input method. We recognize revenue based on actual costs incurred as a percentage of total budgeted costs as we complete a performance obligation applied to the transaction price. A significant change in the estimate of expected costs for the remainder of a contract term could have a material impact on revenue recognized, including the possible reversal of previously recognized revenue, at each reporting period, as well as a related impact on contract assets and liabilities.

#### ***Stock-Based Compensation Expense***

We measure stock-based compensation based on the estimated grant date fair value of an award and recognize expense on a straight-line basis over the requisite service period (usually the vesting period). Forfeitures are accounted for in the period in which they occur.

We began issuing stock options and restricted stock units to our employees, directors and consultants subsequent to our IPO. We estimate the grant date fair value of stock options using the Black-Scholes option-pricing model and for restricted stock units using the closing price of our common stock on the date of grant. The Black-Scholes option-pricing model requires the use of several variables and assumptions that require judgment, including the fair value of the underlying common stock, the expected term of the option, the expected volatility of the price of our common stock, the risk-free interest rate, and the expected dividend yield of our common stock. We consider the expected volatility to be a critical accounting estimate. As we do not have sufficient trading history of our own common stock, we use the historical volatility of a publicly traded set of peer companies in addition to our own historical volatility. This assumption reflects our best estimate, but determining a representative peer group involves subjective considerations. As a result, if a different peer group is used to estimate volatility, the resulting volatility could have a material impact on our stock-based compensation expense. When determining the grant-date fair value of stock-based awards, we further consider whether an adjustment is required to the observable market price or volatility of our common stock that is used in the valuation as a result of material nonpublic information, if that information is expected to result in a material increase in share price.

#### ***Income Taxes***

Prior to the Reorganization, we were taxed under the provisions of Subchapter K—Partners and Partnerships of the Internal Revenue Code. Under those provisions, we did not pay federal or state corporate income taxes on our taxable income. Instead, each member included net operating income or loss for us on its individual tax return.

Metagenomi Therapeutics, Inc. accounts for income taxes using the asset and liability method. We recognize deferred tax assets and liabilities for the expected future tax consequences of events that have been included in our financial statements or tax returns. Deferred tax assets and liabilities are determined based on the difference between the accounting and tax basis of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to reverse. A valuation allowance is established for deferred tax assets for which it is more likely than not that some portion or all of the deferred tax assets will not be realized. We assess the need for a valuation allowance against our deferred tax assets based on all available evidence, including scheduled reversals of deferred tax liabilities, projected future taxable income, tax planning strategies, results of recent operations, and our historical earnings experience by taxing jurisdiction. Significant judgment is required in making this assessment.

Tax benefits related to uncertain tax positions are recognized when it is more likely than not that a tax position will be sustained during an audit. Uncertain tax positions are recorded based upon certain recognition and measurement criteria. Significant judgment is required in making this assessment, and, therefore, we re-evaluate uncertain tax positions and consider various factors, including, but not limited to, changes in tax law, the measurement of tax positions taken or expected to be taken in tax returns, and changes in facts or circumstances related to a tax position. We adjust the amount of the liability to reflect any subsequent changes in the relevant facts and circumstances surrounding the uncertain tax positions.

#### **Item 7A. Quantitative and Qualitative Disclosures About Market Risk.**

Under SEC rules and regulations, because we are considered to be a “smaller reporting company”, we are not required to provide the information required by this item in this report.

#### **Item 8. Financial Statements and Supplementary Data.**

The information required by this item is presented beginning on page F-1 of this report.

#### **Item 9. Changes in and Disagreements With Accountants on Accounting and Financial Disclosure.**

None.

#### **Item 9A. Controls and Procedures.**

##### ***Evaluation of Disclosure Controls and Procedures***

Our management, with the participation and supervision of our principal executive officer and our principal financial officer, carried out an evaluation of the effectiveness of the design and operation of our disclosure controls and procedures, as defined by Rule 13a-15(e) and Rule 15d-15(e) under the Exchange Act, as of the end of the period covered by this Annual Report on Form 10-K. We maintain disclosure controls and procedures that are designed to ensure that information required to be disclosed by us in the reports we file or submit under the Exchange Act, is recorded, processed, summarized and reported within the time periods specified in the SEC’s rules and forms. Our disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by us in the reports we file under the Exchange Act is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate to allow timely decisions regarding required disclosure. In designing and evaluating the disclosure controls and procedures, management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives. Based on the foregoing, our principal executive officer and principal financial officer concluded that our disclosure controls and procedures were effective as of the end of the period covered by this Annual Report on Form 10-K at the reasonable assurance level.

##### ***Management’s Report on Internal Control Over Financial Reporting***

Our management is responsible for establishing and maintaining adequate internal control over financial reporting. Internal control over financial reporting is defined in Rules 13a-15(f) and 15d-15(f) promulgated under the Exchange Act. Under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, we conducted an evaluation of the effectiveness of our internal control over financial reporting based on the framework in “Internal Control - Integrated Framework (2013)” issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this assessment, our management concluded that our internal control over financial reporting was effective as of December 31, 2025.

##### ***Changes in Internal Control over Financial Reporting***

There have been no changes in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) during the quarter ended December 31, 2025 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

***Attestation Report of Registered Public Accounting Firm***

This Annual Report on Form 10-K does not include an attestation report of our registered public accounting firm regarding internal control over financial reporting due to an exemption established by the JOBS Act for “emerging growth companies.”

**Item 9B. Other Information.**

- (a) None.
- (b) None.

**Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections.**

Not applicable.

## PART III

### **Item 10. Directors, Executive Officers and Corporate Governance.**

The information required by this Item will be included in our definitive proxy statement to be filed with the SEC for the 2026 Annual Meeting of Stockholders and is incorporated herein by reference.

We have adopted insider trading policies and procedures governing the purchase, sale, and other dispositions of our securities by directors, officers, and employees that we believe are reasonably designed to promote compliance with insider trading laws, rules and regulations, and applicable Nasdaq listing standards. Our insider trading policy states, among other things, that our directors, officers, and employees are prohibited from trading in such securities while in possession of material, nonpublic information. The foregoing summary of our insider trading policies and procedures does not purport to be complete and is qualified by reference to our Insider Trading Policy filed as an exhibit to this Annual Report on Form 10-K. In addition, with regard to trading in our own securities, it is our policy to comply with the federal securities laws and the applicable exchange listing requirements.

### **Item 11. Executive Compensation.**

The information required by this Item will be included in our definitive proxy statement to be filed with the SEC for the 2026 Annual Meeting of Stockholders and is incorporated herein by reference.

### **Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters.**

The information required by this Item will be included in our definitive proxy statement to be filed with the SEC for the 2026 Annual Meeting of Stockholders and is incorporated herein by reference.

### **Item 13. Certain Relationships and Related Transactions, and Director Independence.**

The information required by this Item will be included in our definitive proxy statement to be filed with the SEC for the 2026 Annual Meeting of Stockholders and is incorporated herein by reference.

### **Item 14. Principal Accounting Fees and Services.**

Our independent public accounting firm is PricewaterhouseCoopers LLP, San Jose, California, PCAOB Auditor Firm ID 238.

The information required by this Item will be included in our definitive proxy statement to be filed with the SEC for the 2026 Annual Meeting of Stockholders and is incorporated herein by reference.

## PART IV

### Item 15. Exhibits, Financial Statement Schedules.

- (a) *Financial Statements.* The financial statements of Metagenomi Therapeutics, Inc. and the report of PricewaterhouseCoopers LLP, Independent Registered Public Accounting Firm, are included in a separate section of this Annual Report on Form 10-K beginning on page F-1. All financial statement schedules are omitted because the information is inapplicable or presented in the notes to the financial statements.
- (b) *Exhibits.* The following is a list of exhibits filed as part of this Annual Report on Form 10-K:

Exhibit Number	Description	Form	Date of Filing	Exhibit Number	Filed Herewith
2.1+	<a href="#">Agreement and Plan of Merger by and between Metagenomi Technologies, LLC and Metagenomi, Inc., dated January 24, 2024</a>	S-1	02/07/2024	2.1	
3.1	<a href="#">Amended and Restated Certificate of Incorporation of the Registrant</a>	8-K	02/13/2024	3.1	
3.2	<a href="#">Certificate of Amendment to Amended and Restated Certificate of Incorporation of the Registrant</a>	8-K	01/12/2026	3.1	
3.3	<a href="#">Second Amended and Restated Bylaws</a>	8-K	01/12/2026	3.2	
4.1+	<a href="#">Registration Rights Agreement among the Registrant and certain of its stockholders, dated January 24, 2024</a>	S-1	02/07/2024	4.1	
4.2	<a href="#">Form of Common Stock Certificate</a>	S-1	02/07/2024	4.2	
4.3	<a href="#">Description of Securities of Registrant</a>				X
10.1#	<a href="#">2024 Stock Option and Incentive Plan and forms of award agreements thereunder</a>	S-1	02/07/2024	10.2	
10.2#	<a href="#">2024 Employee Stock Purchase Plan</a>	S-1	02/07/2024	10.3	
10.3#	<a href="#">Form of Officer Indemnification Agreement</a>	S-1	02/07/2024	10.4	
10.4#	<a href="#">Form of Director Indemnification Agreement</a>	S-1	02/07/2024	10.5	
10.5†	<a href="#">Strategic Collaboration and License Agreement by and between the Registrant and ModernaTX, Inc., dated October 29, 2021</a>	S-1	02/07/2024	10.6	
10.6†	<a href="#">Collaboration and License Agreement by and between the Registrant and Ionis Pharmaceuticals, Inc., dated November 10, 2022</a>	S-1	02/07/2024	10.7	
10.7†	<a href="#">Non-Exclusive License Agreement by and between the Registrant and Acuitas Therapeutics, Inc., dated September 29, 2025</a>	10-Q	11/12/2025	10.1	
10.8	<a href="#">Open Market Sales Agreement<sup>SM</sup> between the Registrant and Jefferies LLC, dated as of March 17, 2025</a>	10-Q	05/13/2025	10.1	
10.9	<a href="#">Lease Agreement between EPL Halleck Investors LLC and Metagenomi, Inc., dated January 22, 2021</a>	S-1	02/07/2024	10.9	
10.10	<a href="#">Sublease Agreement between Dynavax Technologies Corporation and Metagenomi, Inc., dated March 7, 2024</a>	10-K	03/27/2024	10.9	
10.11	<a href="#">Lease Agreement between Park Avenue Building LLC and Metagenomi, Inc., dated September 29, 2021</a>	S-1	02/07/2024	10.11	

<u>Exhibit Number</u>	<u>Description</u>	<u>Form</u>	<u>Date of Filing</u>	<u>Exhibit Number</u>	<u>Filed Herewith</u>
10.12#	<a href="#">Transition Agreement between the Registrant and Brian C. Thomas, dated as of November 6, 2025</a>				X
10.13#	<a href="#">Employment Agreement between the Registrant and Jian Irish, dated as of November 6, 2025</a>				X
10.14#	<a href="#">Employment Agreement between the Registrant and Pamela Wapnick, dated as of November 6, 2025</a>				X
10.15#	<a href="#">Form of Confidentiality and Invention Assignment Agreement</a>	S-1	02/07/2024	10.15	
19.1	<a href="#">Insider Trading Policy</a>	10-K	03/17/2025	19.1	
21.1	<a href="#">Subsidiaries of the Registrant</a>	S-1	02/07/2024	21.1	
23.1	<a href="#">Consent of PricewaterhouseCoopers LLP, Independent Registered Public Accounting Firm</a>				X
24.1	<a href="#">Power of Attorney (included on signature page)</a>				X
31.1	<a href="#">Certification of Principal Executive Officer pursuant to Rule 13a-14(a) or Rule 15d-14(a) of the Exchange Act, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002</a>				X
31.2	<a href="#">Certification of Principal Financial Officer pursuant to Rule 13a-14(a) or Rule 15d-14(a) of the Exchange Act, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002</a>				X
32.1	<a href="#">Certifications of Principal Executive Officer and Principal Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002</a>				X
97.1	<a href="#">Compensation Recovery Policy</a>	10-K	03/27/2024	97.1	
101.INS	Inline XBRL Instance Document - the instance document does not appear in the Interactive Data File as its XBRL tags are embedded within the Inline XBRL document				X
101.SCH	Inline XBRL Taxonomy Extension Schema with Embedded Linkbase Documents				X
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)				X

# Indicates a management contract or any compensatory plan, contract or arrangement

† Portions of this exhibit (indicated by asterisks) have been omitted in accordance with the rules of the SEC because the Registrant has determined that information is not material and would be competitively harmful if publicly disclosed.

+ Annexes, schedules and/or exhibits have been omitted pursuant to Item 601(a)(5) of Regulation S-K. The registrant agrees to furnish supplementally a copy of any omitted attachment to the SEC on a confidential basis upon request.

#### Item 16. Form 10-K Summary

None.



## INDEX TO FINANCIAL STATEMENTS

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## **Report of Independent Registered Public Accounting Firm**

To the Board of Directors and Stockholders of Metagenomi Therapeutics, Inc.

### ***Opinion on the Financial Statements***

We have audited the accompanying 2025 financial statements of Metagenomi Therapeutics, Inc. and the 2024 consolidated financial statements of Metagenomi Therapeutics, Inc, and its subsidiaries (collectively referred to as the "Company"), which comprise the balance sheets as of December 31, 2025 and 2024, and the related statements of operations and comprehensive loss, of redeemable convertible preferred stock and stockholders' equity and of cash flows for the years then ended, including the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2025 and 2024, and the results of its operations and its cash flows for the years then ended in conformity with accounting principles generally accepted in the United States of America.

### ***Basis for Opinion***

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits of these financial statements in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

### ***Emphasis of Matter***

As discussed in Note 1 to the financial statements, the Company has incurred net operating losses and negative cash flows from operations. Management's evaluation and conditions related to this matter are described in Note 1.

/s/ PricewaterhouseCoopers LLP  
San Jose, California  
March 5, 2026

We have served as the Company's auditor since 2022.

**Metagenomi Therapeutics, Inc.**  
**Balance Sheets**  
*(In thousands, except share and per share data)*

	December 31,	
	2025	2024
<b>Assets</b>		
Current assets:		
Cash and cash equivalents	\$ 41,722	\$ 27,386
Available-for-sale marketable securities	119,077	220,921
Accounts receivable	305	1,257
Prepaid expenses and other current assets	4,434	8,396
Total current assets	<u>165,538</u>	<u>257,960</u>
Property and equipment, net	12,288	17,740
Long-term investments	2,154	3,447
Operating lease right-of-use assets	35,094	39,917
Other assets	836	287
Restricted cash	5,193	5,248
Total assets	<u>\$ 221,103</u>	<u>\$ 324,599</u>
<b>Liabilities and Stockholders' Equity</b>		
Current liabilities:		
Accounts payable	\$ 1,489	\$ 533
Accrued expenses and other current liabilities	6,719	8,422
Current portion of operating lease liabilities	6,025	5,592
Deferred revenue	8,700	22,762
Total current liabilities	<u>22,933</u>	<u>37,309</u>
Non-current portion of operating lease liabilities	34,632	40,186
Deferred revenue, non-current	2,989	10,237
Other non-current liabilities	1,953	2,010
Total liabilities	<u>62,507</u>	<u>89,742</u>
Commitments and contingencies (Note 8)		
Stockholders' equity:		
Preferred stock: \$0.0001 par value; 10,000,000 shares authorized and zero shares issued and outstanding	—	—
Common stock: \$0.0001 par value; 500,000,000 shares authorized; 37,620,668 and 37,418,470 shares issued and outstanding as of December 31, 2025 and 2024, respectively	4	4
Additional paid-in capital	469,202	457,146
Accumulated other comprehensive income	260	709
Accumulated deficit	(310,870)	(223,002)
Total stockholders' equity	<u>158,596</u>	<u>234,857</u>
Total liabilities and stockholders' equity	<u>\$ 221,103</u>	<u>\$ 324,599</u>

*The accompanying notes are an integral part of these financial statements.*

**Metagenomi Therapeutics, Inc.**  
**Statements of Operations and Comprehensive Loss**  
*(In thousands, except share and per share data)*

	Years Ended December 31,	
	2025	2024
Collaboration revenue	\$ 25,210	\$ 52,295
Operating expenses:		
Research and development	94,433	109,179
General and administrative	26,790	32,017
Total operating expenses	121,223	141,196
Loss from operations	(96,013)	(88,901)
Other income (expense):		
Interest income	9,470	14,722
Change in fair value of long-term investments	(1,292)	(9,185)
Other expense, net	(91)	(207)
Total other income, net	8,087	5,330
Net loss before benefit from income taxes	(87,926)	(83,571)
Benefit from income taxes	58	5,513
Net loss	\$ (87,868)	\$ (78,058)
Other comprehensive income (loss):		
Unrealized gain (loss) on available-for-sale marketable securities	(449)	806
Comprehensive loss	\$ (88,317)	\$ (77,252)
Net loss per share attributable to common stockholders, basic and diluted	\$ (2.36)	\$ (2.36)
Weighted average common shares outstanding, basic and diluted	37,251,050	33,027,889

*The accompanying notes are an integral part of these financial statements.*

**Metagenomi Therapeutics, Inc.**  
**Statements of Redeemable Convertible Preferred Stock and Stockholders' Equity**  
*(In thousands, except share data)*

	Redeemable Convertible Preferred Stock		Common Stock		Additional Paid-In Capital	Accumulated Other Comprehensive Income (Loss)	Accumulated Deficit	Total Stockholders' Equity (Deficit)
	Shares	Amount	Shares	Amount				
<b>BALANCE—December 31, 2023</b>	41,813,375	350,758	3,404,585	—	9,457	(97)	(144,944)	(135,584)
Issuance of common stock and restricted common stock in exchange for profits interests upon Reorganization	—	—	3,884,740	1	—	—	—	1
Conversion of redeemable convertible preferred stock to common stock upon initial public offering	(41,813,375)	(350,758)	23,935,594	2	350,756	—	—	350,758
Issuance of common stock in connection with initial public offering, net of issuance costs	—	—	6,250,000	1	80,729	—	—	80,730
Vesting of restricted stock units	—	—	24,801	—	—	—	—	—
Forfeiture of unvested common stock	—	—	(81,250)	—	—	—	—	—
Stock-based compensation expense	—	—	—	—	16,204	—	—	16,204
Other comprehensive income	—	—	—	—	—	806	—	806
Net loss	—	—	—	—	—	—	(78,058)	(78,058)
<b>BALANCE—December 31, 2024</b>	—	\$ —	37,418,470	\$ 4	\$ 457,146	\$ 709	\$ (223,002)	\$ 234,857
Vesting of restricted stock units	—	—	151,193	—	—	—	—	—
Issuance of common stock under employee stock purchase plan (ESPP)	—	—	138,255	—	203	—	—	203
Forfeiture of unvested common stock	—	—	(87,250)	—	—	—	—	—
Stock-based compensation expense	—	—	—	—	11,853	—	—	11,853
Other comprehensive loss	—	—	—	—	—	(449)	—	(449)
Net loss	—	—	—	—	—	—	(87,868)	(87,868)
<b>BALANCE—December 31, 2025</b>	—	\$ —	37,620,668	\$ 4	\$ 469,202	\$ 260	\$ (310,870)	\$ 158,596

*The accompanying notes are an integral part of these financial statements.*

**Metagenomi Therapeutics, Inc.**  
**Statements of Cash Flows**  
*(In thousands)*

	Years Ended December 31,	
	2025	2024
<b>Cash flows from operating activities</b>		
Net loss	\$ (87,868)	\$ (78,058)
Adjustments to reconcile net loss to net cash used in operating activities		
Stock-based compensation expense	11,853	16,204
Depreciation	5,317	5,407
Loss on fixed assets write-off	502	1,042
Non-cash lease expense	5,318	4,644
Amortization of premiums and discounts on available-for-sale marketable securities	(3,000)	(6,169)
Amortization of non-cash collaboration revenue	(212)	(1,660)
Change in fair value of long-term investments	1,292	9,185
Changes in operating assets and liabilities:		
Accounts receivable	952	1,194
Prepaid expenses and other assets	4,313	(2,323)
Accounts payable	1,054	(1,106)
Income tax payable	—	(3,266)
Deferred revenue and collaboration advance	(21,098)	(46,804)
Accrued expenses and other current liabilities	(1,642)	(893)
Operating lease liabilities	(5,615)	(3,401)
Other non-current liabilities	(58)	(3,069)
Net cash used in operating activities	<u>(88,892)</u>	<u>(109,073)</u>
<b>Cash flows from investing activities</b>		
Purchases of property and equipment	(574)	(3,114)
Proceeds from sale of property and equipment	37	—
Purchases of available-for-sale marketable securities	(66,408)	(306,096)
Maturities of available-for-sale marketable securities	170,474	221,377
Purchases of long-term investments	—	(324)
Net cash provided by (used in) investing activities	<u>103,529</u>	<u>(88,157)</u>
<b>Cash flows from financing activities</b>		
Proceeds from issuance of common stock upon initial public offering, net of underwriting discounts and commissions and other offering costs	—	84,013
Proceeds from issuance of common stock under the ESPP	202	—
Payment of deferred financing costs	(558)	—
Net cash provided by (used in) financing activities	<u>(356)</u>	<u>84,013</u>
Net increase (decrease) in cash, cash equivalents and restricted cash	14,281	(113,217)
Cash, cash equivalents and restricted cash at beginning of period	32,634	145,851
Cash, cash equivalents and restricted cash at end of period	<u>\$ 46,915</u>	<u>\$ 32,634</u>
<b>Supplemental disclosure of non-cash information</b>		
Conversion of redeemable convertible preferred stock to common stock upon initial public offering	\$ —	\$ 350,758
Issuance of common stock and restricted common stock in exchange for profits interests upon Reorganization	\$ —	\$ 9,457
Reclassification of deferred offering costs paid in prior year to stockholders' equity	\$ —	\$ 3,283
Common shares of Affini-T received for collaboration revenue	\$ —	\$ 1,632
Cash paid for income taxes net of (refunds) (Note 13)	\$ (2,238)	\$ 3,505
<b>Reconciliation of cash, cash equivalents and restricted cash</b>		
Cash and cash equivalents	\$ 41,722	\$ 27,386
Restricted cash	5,193	5,248
Cash, cash equivalents and restricted cash at end of period	<u>\$ 46,915</u>	<u>\$ 32,634</u>

*The accompanying notes are an integral part of these financial statements.*

**Metagenomi Therapeutics, Inc.**  
**Notes to Financial Statements**

**1. Description of Business, Organization and Liquidity**

***Organization and Business***

Metagenomi Therapeutics, Inc. (“Metagenomi” or the “Company”), formerly known as Metagenomi, Inc., is an in vivo genome editing company capitalizing on its proprietary technologies to create curative genetic medicine for patients.

***Reorganization and Reverse Stock Split***

On January 24, 2024, the Company completed a series of transactions pursuant to which Metagenomi LLC merged with and into Metagenomi, Inc., with Metagenomi, Inc. continuing as the surviving corporation (the “Reorganization”). In connection with the Reorganization, (i) all of the outstanding common unitholders received shares of common stock of Metagenomi, Inc., (ii) all of the outstanding preferred unitholders received shares of redeemable convertible preferred stock of Metagenomi, Inc. with the same rights and privileges and (iii) certain holders of profits interest units received shares of common stock and unvested restricted common stock in Metagenomi, Inc. as determined by the applicable provisions of the Amended and Restated Limited Liability Company Agreement dated December 20, 2022, as amended on July 31, 2023 (the “LLC Agreement”) in effect immediately prior to the Reorganization. In connection with the Reorganization, by operation of law, Metagenomi, Inc. acquired all assets of Metagenomi LLC, and assumed all of its liabilities and obligations. The Reorganization was a non-taxable transaction to Metagenomi, Inc. for United States (“U.S.”) income tax purposes.

On January 26, 2024, following the Reorganization, Metagenomi, Inc. effected a reverse stock split of the shares of common stock at a ratio of 1-for-1.74692 (the “Reverse Stock Split”). The number of authorized shares and par value per share were not adjusted as a result of the Reverse Stock Split. The Reorganization and the Reverse Stock Split was accounted for as a reorganization of entities under common control. All redeemable convertible preferred stock, common stock, additional paid-in-capital and per share amounts for all periods presented in the accompanying financial statements and notes thereto have been adjusted retroactively, where applicable, to reflect this Reorganization and Reverse Stock Split.

In connection with the Reorganization and also effecting the reverse stock split:

- holders of Metagenomi LLC’s outstanding Series A-1 redeemable convertible preferred units (“Series A-1 preferred units”) received one share of Series A-1 redeemable convertible preferred stock (“Series A-1 preferred stock”) of Metagenomi, Inc. for each Series A-1 preferred unit, with an aggregate of 7,501,002 shares of Series A-1 preferred stock outstanding, and after giving effect to the reverse stock split, such shares of Series A-1 preferred stock shall become convertible into an aggregate of 4,293,867 shares of common stock;
- holders of Metagenomi LLC’s outstanding Series A-2 redeemable convertible preferred units (“Series A-2 preferred units”) received one share of Series A-2 redeemable convertible preferred stock (“Series A-2 preferred stock”) of Metagenomi, Inc. for each Series A-2 preferred unit, with an aggregate of 774,473 shares of Series A-2 preferred stock outstanding, and after giving effect to the reverse stock split, such shares of Series A-2 preferred stock shall become convertible into an aggregate of 443,338 shares of common stock;
- holders of Metagenomi LLC’s outstanding Series A-3 redeemable convertible preferred units (“Series A-3 preferred units”) received one share of Series A-3 redeemable convertible preferred stock (“Series A-3 preferred stock”) of Metagenomi, Inc. for each Series A-3 preferred unit, with an aggregate of 1,513,860 shares of Series A-3 preferred stock outstanding, and after giving effect to the reverse stock split, such shares of Series A-3 preferred stock shall become convertible into an aggregate of 866,589 shares of common stock;
- holders of Metagenomi LLC’s outstanding Series A-4 redeemable convertible preferred units (“Series A-4 preferred units”) received one share of Series A-4 redeemable convertible preferred stock (“Series A-4 preferred stock”) of Metagenomi, Inc. for each Series A-4 preferred unit, with an aggregate of 8,280,360 shares of Series A-4 preferred stock outstanding, and after giving effect to the reverse stock split, such shares of Series A-4 preferred stock shall become convertible into an aggregate of 4,740,000 shares of common stock;
- holders of Metagenomi LLC’s outstanding Series A-5 redeemable convertible preferred units (“Series A-5 preferred units”) received one share of Series A-5 redeemable convertible preferred stock (“Series A-5 preferred stock”) of Metagenomi, Inc. for each Series A-5 preferred unit, with an aggregate of 1,580,937 shares of Series A-5 preferred stock outstanding, and after giving effect to the reverse stock split, such shares of Series A-5 preferred stock shall become convertible into an aggregate of 904,990 shares of common stock;

- holders of Metagenomi LLC’s outstanding Series B redeemable convertible preferred units (“Series B preferred units”) received one share of Series B redeemable convertible preferred stock (“Series B preferred stock”) of Metagenomi, Inc. for each Series B preferred unit, with an aggregate of 15,054,263 shares of Series B preferred stock outstanding, and after giving effect to the reverse stock split, such shares of Series B preferred stock shall become convertible into an aggregate of 8,617,649 shares of common stock;
- holders of Metagenomi LLC’s outstanding Series B-1 redeemable convertible preferred units (“Series B-1 preferred units”) received one share of Series B-1 redeemable convertible preferred stock (“Series B-1 preferred stock”) of Metagenomi, Inc. for each Series B-1 preferred unit, with an aggregate of 7,108,480 shares of Series B-1 preferred stock outstanding, and after giving effect to the reverse stock split, such shares of Series B-1 preferred stock shall become convertible into an aggregate of 4,069,161 shares of common stock;
- holders of Metagenomi LLC’s outstanding common units received one share of common stock of Metagenomi, Inc. for each common unit, with an aggregate of 3,404,585 shares of common stock outstanding, after giving effect to the reverse stock split; and
- holders of Metagenomi LLC’s outstanding profits interests received 0 - 0.997816 shares of common stock in accordance with the Metagenomi LLC operating agreement for each profits interest, with an aggregate of 3,884,740 shares of common stock outstanding (which includes 1,036,833 shares of unvested restricted common stock), after giving effect to the reverse stock split. Vesting terms of outstanding profits interests did not change.

### ***Name Change***

In the first quarter of 2026, the Company announced a corporate name change to Metagenomi Therapeutics, Inc. This change emphasized the Company’s strategic evolution focused on driving its later-stage preclinical programs into the clinic and utilizing its most advanced technologies that have the highest probability of success to deliver the benefits of gene editing therapeutics to patients.

### ***Initial Public Offering***

On February 8, 2024, Metagenomi, Inc.’s Form S-1 Registration Statement for its initial public offering (the “IPO”) was declared effective and the common stock of Metagenomi, Inc. began trading on the Nasdaq Global Select Market under the symbol “MGX.” On February 13, 2024, the closing date of IPO, the Company issued 6,250,000 shares of common stock at a price to the public of \$15.00 per share. In connection with the closing of the IPO, the Company received gross proceeds of approximately \$93.8 million and net proceeds of approximately \$80.7 million, after deducting underwriting discounts and commissions and other offering costs totaling approximately \$13.0 million.

Immediately prior to the IPO closing, each share of Metagenomi, Inc.’s redeemable convertible preferred stock then outstanding converted into shares of common stock at a conversion ratio of 1.74692, based on the formula set forth in Metagenomi, Inc.’s amended and restated certificate of incorporation in effect immediately prior to the closing of the IPO and giving effect to the reverse stock split. In connection with the closing of the IPO, Metagenomi, Inc. increased the authorized number of shares of common stock to 500,000,000 shares, \$0.0001 par value per share, and 10,000,000 shares of preferred stock, \$0.0001 par value per share.

### ***Liquidity and Going Concern***

The Company has incurred significant losses and negative cash flows from operations since its inception. As of December 31, 2025, the Company had an accumulated deficit of \$310.9 million. The Company has historically financed its operations primarily through issuance of redeemable convertible preferred stock, convertible promissory notes, its collaboration agreements, and sales of its common stock. In February 2024, the Company completed its IPO for aggregate net proceeds of approximately \$80.7 million, after deducting underwriting discounts and commissions and other offering costs totaling approximately \$13.0 million. As of December 31, 2025, the Company had \$75.0 million of capacity available under the ATM Sales Agreement. The Company expects to continue to incur substantial losses, and its ability to achieve and sustain profitability will depend on the successful development, approval, and commercialization of any product candidates it may develop, and on the achievement of sufficient revenue to support its cost structure. The Company may never achieve profitability and, unless and until it does, it will need to continue to raise additional capital. There can be no assurance that the Company will be successful in acquiring additional capital at levels sufficient to fund its operations or on terms acceptable to the Company or at all.

Management believes that existing cash, cash equivalents and available-for-sale marketable securities as of December 31, 2025 of \$160.8 million will be sufficient to fund its current operating plan for at least the next 12 months from the date of issuance of these financial statements.

## 2. Summary of Significant Accounting Policies

### *Basis of Presentation*

These financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America (“U.S. GAAP”) and pursuant to the rules and regulations of the Securities and Exchange Commission (“SEC”) regarding financial reporting. Any reference in these notes to applicable guidance is meant to refer to the authoritative GAAP as found in the Accounting Standards Codification (“ASC”) and Accounting Standards Updates (“ASU”) of the Financial Accounting Standards Board (“FASB”).

The accompanying financial statements include the accounts of Metagenomi Therapeutics, Inc. for the years ended December 31, 2025 and 2024, and the accounts of Metagenomi LLC for the year ended December 31, 2024, retroactively adjusted for the Reorganization and Reverse Stock Split, see Note 1, “Description of Business, Organization and Liquidity”.

### *Use of Estimates*

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of expenses during the reporting period. On an ongoing basis, the Company evaluates estimates and assumptions, including but not limited to those related to revenue recognition under its collaboration agreements, the fair value of its common stock, stock-based compensation expense, accruals for research and development expenses, the fair value of long-term investments, the valuation of deferred tax assets and uncertain income tax positions. Management bases its estimates on historical experience and on various other assumptions that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ materially from those estimates.

### *Cash, Cash Equivalents and Restricted Cash*

Cash equivalents are defined as short-term, highly liquid investments with original maturities of three months or less at the date of purchase. As of December 31, 2025 and 2024, the Company’s cash and cash equivalents consisted of deposit accounts and investments in money market funds.

Restricted cash of \$5.2 million as of December 31, 2025 and 2024 represents security deposits in the form of a letter of credit issued in connection with the Company’s leases, see Note 8, “Commitments and Contingencies”.

### *Marketable Securities*

Investments with original maturities of greater than three months are classified as available-for-sale marketable securities on the balance sheets and consist primarily of U.S. government bonds, government agency obligations, corporate debt obligations, commercial paper, asset-backed securities and foreign debt securities. As the Company’s entire investment portfolio is considered available for use in current operations, the Company classifies all investments as available-for-sale and as current assets, even though the stated maturity may be more than one year from the current balance sheet date. Available-for-sale securities are carried at fair value, with unrealized gains and losses reported in accumulated other comprehensive income (loss), which is a separate component of stockholders’ equity in the balance sheets. The Company presents accrued interest receivable related to the available-for-sale securities in prepaid expenses and other current assets, separate from available-for-sale marketable securities. The amortized cost of securities is adjusted for amortization of premiums and accretion of discounts to maturity, which are both recorded to interest income in the statements of operations and comprehensive loss.

Realized gains and losses, allowances for credit losses and impairments on available-for-sale securities, if any, are recorded to other income (expense) in the statements of operations and comprehensive loss. Realized gains and losses on the sale of securities are determined by specific identification of each security’s cost basis. The Company regularly reviews its investment portfolio to determine if any security is impaired, which would require it to record an allowance for credit losses or an impairment charge in the period any such determination is made. In making this judgment, the Company evaluates, among other things, the extent to which the fair value of a security is less than its amortized cost, its intent to sell or whether it is more likely than not that the Company will be required to sell the security before recovery of its amortized cost basis, the financial condition of the issuer and any changes thereto, and, as necessary, the portion of a decline in fair value that is credit-related.

The Company’s policy is to exclude the applicable accrued interest from both the fair value and the amortized cost basis of its available-for-sale securities for purposes of identifying and measuring an impairment. The Company’s accounting policy is to not measure an allowance for credit losses for accrued interest receivable and to write-off any uncollectible accrued interest receivable as a reversal of interest income in a timely manner, which it considers to be in the period in which the Company determines the accrued interest will not be collected.

### **Long-Term Investments**

The Company determines at the inception of each arrangement whether an investment or other interest is considered a variable interest entity (“VIE”). If the investment or other interest is determined to be a VIE, the Company evaluates whether it is considered the primary beneficiary. The primary beneficiary of a VIE is the party that meets both of the following criteria: (i) has the power to direct the activities that most significantly impact the VIE’s economic performance; and (ii) has the obligation to absorb losses or the right to receive benefits from the VIE. For investments in VIEs in which the Company is considered the primary beneficiary, the assets, liabilities and results of operations of the VIE are included in the Company’s financial statements. As of December 31, 2025 and 2024, there were no VIEs for which the Company was the primary beneficiary.

If the Company concludes that it exercises significant influence over an investees’ operations, it may account for its investment either using the equity method of accounting or fair value method. The election to account for an investment at fair value is irrevocable unless an event occurs creating a new election date. If the Company does not have a significant influence, it accounts for its investment at fair value and may elect to account for an equity security without a readily determinable fair value using the measurement alternative method. The measurement alternative method allows the Company to measure the equity investment at its cost minus impairment, if any, plus or minus changes resulting from observable price changes in orderly transactions for the identical or a similar investment of the same issuer. Changes in fair value and impairment losses are recognized as other income (expense) in the statements of operations and comprehensive loss.

### **Concentration of Credit Risk and Other Risks and Uncertainties**

Cash and cash equivalents and available-for-sale marketable securities are financial instruments that potentially subject the Company to concentrations of credit risk. Cash and cash equivalents consist of cash deposited with financial institutions in the United States. Account balances may exceed federally insured limits. The Company invests in money market funds, U.S. government bonds, corporate debt obligations, commercial paper, government agency obligations, asset-backed securities and foreign debt securities, which can be subject to certain credit risks. The Company mitigates the risks by investing in high-grade instruments, limiting its exposure to any one issuer and monitoring the ongoing creditworthiness of the financial institutions and issuers. The Company has not experienced any losses on its financial instruments.

The Company is subject to certain risks and uncertainties, including, but not limited to, changes in any of the following areas that the Company believes could have a material adverse effect on the future financial position or results of operations: the Company’s ability to advance the development of its next generation gene-editing platform, timing and ability to advance any product candidates it may develop into and through pre-clinical and clinical development; costs and timelines associated with the manufacturing of clinical supplies of any product candidates the Company may develop; regulatory approval, market acceptance of, and reimbursement for any product candidates the Company may develop; performance of third-party vendors; competition from pharmaceutical or other gene-editing companies with greater financial resources or expertise; protection of intellectual property; litigation or claims against the Company based on intellectual property or other factors; and its ability to attract and retain employees necessary to support its growth.

The Company’s business and operations may also be affected by worldwide economic conditions, which may continue to be impacted by global macroeconomic challenges such as inflationary pressures, interest rate and currency rate fluctuations, increased U.S. trade tariffs, reciprocal and retaliatory tariffs from other countries, and trade disputes with other countries, economic slowdown or recession, banking instability, monetary policy changes, geopolitical tensions or the outbreak of hostilities or war, including from the ongoing Russia-Ukraine conflict, the current conflict in Israel and Gaza (including any escalation or expansion), the current conflict in Venezuela and increasing tensions between China and Taiwan.

### **Concentration of Collaboration Revenue and Accounts Receivable**

The percentages of collaboration revenue and accounts receivable from each of the Company’s customers that individually accounted for 10% or more of its total collaboration revenue and accounts receivable, net were as follows:

<b>Collaboration Revenue</b>	<b>Years Ended December 31,</b>	
	<b>2025</b>	<b>2024</b>
Customer A	98%	58%
Customer B	*	36%
Customer C	*	*
	<u>98%</u>	<u>94%</u>

<u>Accounts Receivable</u>	<u>As of December 31,</u>	
	<u>2025</u>	<u>2024</u>
Customer A	100%	84%
Customer B	*	*
Customer C	*	16%
	<u>100%</u>	<u>100%</u>

\* the customer did not account for 10% or more of collaboration revenue or accounts receivable, net

The Company reviews its accounts receivable for impairment and credit loss. There have been no impairment or credit losses recognized during the periods presented in the accompanying statements of operations and comprehensive loss.

### ***Fair Value Measurements***

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

Assets and liabilities recorded at fair value on a recurring basis in the balance sheets, are categorized based upon the level of judgment associated with inputs used to measure their fair values. The accounting guidance for fair value provides a framework for measuring fair value and requires certain disclosures about how fair value is determined. The accounting guidance establishes a three-level valuation hierarchy that prioritizes the inputs to valuation techniques used to measure fair value based upon whether such inputs are observable or unobservable. Observable inputs reflect market data obtained from independent sources, while unobservable inputs reflect market assumptions made by the reporting entity. The three-level hierarchy for the inputs to valuation techniques is briefly summarized as follows:

*Level 1* — Inputs are unadjusted, quoted prices in active markets for identical assets or liabilities at the measurement date;

*Level 2* — Inputs are observable, unadjusted quoted prices in active markets for similar assets or liabilities, unadjusted quoted prices for identical or similar assets or liabilities in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the related assets or liabilities; and

*Level 3* — Unobservable inputs that are significant to the measurement of the fair value of the assets or liabilities that are supported by little or no market data.

Assets and liabilities measured at fair value are classified in their entirety based on the lowest level of input that is significant to the fair value measurement. An assessment of the significance of a particular input to the fair value measurement in its entirety requires management to make judgments and consider factors specific to the asset or liability. Changes in the ability to observe valuation inputs may result in a reclassification of levels of certain securities within the fair value hierarchy. The Company recognizes transfers into and out of levels within the fair value hierarchy in the period in which the actual event or change in circumstances that caused the transfer occurs.

The carrying amounts of cash equivalents, prepaid expenses and other current assets, accounts payable, accrued expenses and other liabilities, approximate fair value due to their short-term maturities. Financial instruments, such as money market funds, marketable securities and certain equity and long-term investments are measured at fair value at each reporting date. Usually, marketable securities are considered Level 2 when their fair values are determined using inputs that are observable in the market or can be derived principally from or corroborated by observable market data such as pricing for similar securities, recently executed transactions, cash flow models with yield curves, and benchmark securities. In addition, Level 2 financial instruments are valued using comparisons to like-kind financial instruments and models that use readily observable market data as their basis. U.S. government bonds, corporate debt obligations, commercial paper, government agency obligations and asset-backed securities are valued primarily using market prices of comparable securities, bid/ask quotes, interest rate yields and prepayment spreads and are included in Level 2. Financial assets and liabilities are considered Level 3 when their fair values are determined using pricing models, discounted cash flow methodologies, or similar techniques, and at least one significant model assumption or input is unobservable. The Company's investments in preferred stock, common stock and warrants of Affini-T (see Note 5, "Long-Term Investments") are Level 3 financial assets.

### ***Deferred Finance Issuance Costs***

Deferred finance issuance costs, consisting of legal, accounting and audit fees relating to in-process equity financings and initial public offering, are capitalized. The deferred finance issuance costs are offset against offering proceeds upon the completion of the financing or the offering. In the event the financing or the offering is terminated or delayed, the deferred finance issuance costs will be expensed immediately as a charge to general and administrative expenses in the statements of operations and comprehensive loss. The Company had \$0.6 million and zero deferred finance issuance costs capitalized as of December 31, 2025 and 2024, respectively, included in other assets in the balance sheets.

### ***Property and Equipment, Net***

Property and equipment are recorded at cost, less accumulated depreciation. Depreciation is computed using the straight-line method over the estimated useful life or the lease term. Repairs and maintenance expenditures, which are not considered improvements and do not extend the useful life of property and equipment, are expensed as incurred. When assets are retired or otherwise disposed of, the cost and related accumulated depreciation and amortization are removed from the balance sheets and the resulting gain or loss is reflected in the statements of operations and comprehensive loss in the period realized.

The estimated useful lives of property, plant and equipment are as follows (in years):

<b>Category</b>	<b>Useful Life</b>
Laboratory equipment	5
Leasehold improvements	lesser of useful life or the lease term
Computer equipment and software	3-5
Furniture and fixtures	3-5

### ***Leases***

The Company determines whether an arrangement is or contains a lease at the inception of the arrangement and whether such a lease should be classified as a financing lease or operating lease at the commencement date of the lease. Operating leases with a term greater than one year are recognized on the balance sheets as operating right-of-use asset (“ROU asset”) and operating lease liabilities. We elected not to recognize the right-of-use assets and lease liabilities for leases with lease terms of one year or less (short-term leases). Lease liabilities and their corresponding ROU assets are recorded based on the present value of lease payments over the lease term. The Company considers the lease term to be the noncancelable period that it has the right to use the underlying asset, together with any periods where it is reasonably certain it will exercise an option to extend (or not terminate) the lease. As the interest rate implicit in the Company’s lease contracts is not readily determinable, the Company utilizes its incremental borrowing rate based on the information available at the commencement date to determine the present value of lease payments.

Operating lease cost is recognized on a straight-line basis over the lease term. The Company has elected to not separate lease and non-lease components for its real estate leases and instead accounts for each separate lease component and the non-lease components associated with that lease component as a single lease component. Variable lease payments are recognized as incurred.

As of December 31, 2025 and 2024, the Company had no finance leases.

### ***Impairment of Long-Lived Assets***

The Company reviews long-lived assets for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. Recoverability is measured by comparing the carrying amount to the future undiscounted net cash flows which the assets are expected to generate. If such assets are considered to be impaired, the impairment to be recognized is measured as the amount by which the carrying amount of the assets exceeds the projected discounted future net cash flows generated by the assets.

### ***Collaboration Arrangements and Revenue Recognition***

At the inception of an agreement, the Company evaluates if an agreement is a collaborative arrangement within the scope of ASC 808, *Collaborative Arrangements* (“ASC 808”). For collaborative arrangements that fall within the scope of ASC 808, the Company first determines which elements of the collaboration are deemed to be a performance obligation with a customer within the scope of ASC Topic 606, *Revenue from Contracts with Customers* (“ASC 606”). For elements of collaboration arrangements that are accounted for pursuant to ASC 808 and are not subject to the guidance in ASC 606, the Company applies the revenue recognition model under ASC 606 or other guidance, as deemed appropriate.

The Company re-evaluates whether the license agreement continues to be a collaborative arrangement, or whether the license agreement becomes a collaborative arrangement, whenever there is a change in either the roles of the participants in the arrangement or the participants' exposure to significant risks and rewards dependent on the ultimate commercial success of the endeavor.

Under ASC 606, the Company recognizes revenue when the Company's customer obtains control of promised goods or services, in an amount that reflects the consideration which the Company expects to receive in exchange for those goods and services. To determine revenue recognition for arrangements within the scope of ASC 606, the Company performs the following five steps: (i) identify the contract(s) with a customer; (ii) identify the performance obligations in the contract; (iii) determine the transaction price, including the constraint on variable consideration; (iv) allocate the transaction price to the performance obligations in the contract; and (v) recognize revenue when or as the Company satisfies a performance obligation.

The Company's revenue is primarily derived through its license, research, development and option agreements. These agreements may include the following types of promised goods or services: (i) grants of licenses; (ii) performance of research and development services; and (iii) participation on joint research and/or development committees. They also may include options to obtain licenses to the Company's intellectual property or to extend the term of the research activities. Payments to the Company under these arrangements typically include one or more of the following: non-refundable upfront payments; reimbursement for research services; research, development or regulatory milestone payments; profit-sharing arrangements; and royalty and commercial sales milestone payments. The event-based milestone payments, royalties and cost reimbursements represent variable consideration. The Company evaluates the probability that the event-based milestones will be achieved and estimates the amount to be included in the transaction price using the most likely amount method. The Company includes cost reimbursement in the transaction price using the expected value method.

A performance obligation is a promise in a contract to transfer a distinct good or service to the customer and is the unit of account in ASC 606. The Company allocates the total transaction price, including variable consideration that is not constrained, to each performance obligation based on the estimated standalone selling price and recognizes revenue when, or as, the performance obligation is satisfied. Amounts of variable consideration are included in the transaction price to the extent that it is probable that a significant reversal in the amount of cumulative revenue recognized will not occur. At the end of each reporting period, the Company re-evaluates the estimated variable consideration included in the transaction price and any related constraint, and if necessary, adjusts its estimate of the overall transaction price.

The Company's collaboration and license agreements include contingent payments related to sales-based milestones and royalties. Sales-based milestones and royalties are typically payable when annual sales of a covered product reach specified levels and sales occur. When intellectual property license is determined to be a predominant promise in the arrangement, sales-based milestones and royalties are recognized at the later of when the associated performance obligation has been satisfied or when the sales occur. Unlike other contingency payments, such as regulatory milestones, sales-based milestones and royalties are not included in the transaction price based on estimates at the inception of the contract, but rather, are included when the sales or usage occur.

In cases when upfront payment contains a material right for the optional services the Company may provide in the future, the material right is treated as a separate performance obligation. The value allocated to such material right is deferred and recognized as revenue when the performance obligation is satisfied, and the optional services are provided, or when the right expires.

#### ***Contract Assets and Contract Liabilities***

A contract asset is a right to consideration in exchange for goods or services that the Company has transferred to a customer when that right is conditional and is not just subject to the passage of time. A receivable is recorded on the balance sheets when the Company has unconditional rights to consideration.

A contract liability is an obligation to transfer goods or services for which the Company has received consideration, or for which an amount of consideration is due from the customer. Contract liabilities consist of deferred revenue and relate to amounts invoiced to, or advance consideration received from, licensees that precede the Company's satisfaction of the associated performance obligations. The Company's deferred revenue primarily results from upfront payments received relating to the performance obligations that are satisfied over time under the Company's revenue arrangements.

The Company's contract balances are reported in a net contract asset or liability position on a contract-by-contract basis at the end of each reporting period. Changes in the contract assets and the contract liabilities balances during the period are the result of the issuance of invoices, receipts of non-refundable upfront payments and recognition of deferred revenues.

### ***Research and Development Expenses***

Research and development costs are expensed as incurred. Research and development costs include salaries, stock-based compensation, and benefits for employees performing research and development activities, an allocation of facility and overhead expenses, expenses incurred under agreements with consultants, third-party organizations and vendors that conduct research and development activities, regulatory support activities, manufacturing process development activities and provide supplies. Nonrefundable advance payments for goods or services to be received in the future for use in research and development activities are capitalized and recorded in prepaid expenses and other current assets, and then expensed as the related goods are delivered or the services are performed.

Research and development expenses accruals are estimated based on the level of services performed, progress of the work orders, including the phase or completion of events, and contracted costs. The estimated costs of research and development services provided, but not yet invoiced, are included in accrued expenses and other current liabilities in the balance sheets. If the actual timing of the performance of services or the level of effort varies from the original estimates, the Company will adjust the accrual accordingly. To date, there have been no material differences between estimates of such expenses and the amounts actually incurred.

### ***Patent Costs***

All patent-related costs incurred in connection with filing and prosecuting patent applications are expensed as incurred due to the uncertainty of the recovery of the expenditure. Amounts incurred are classified as general and administrative expenses in the statements of operations and comprehensive loss.

### ***Stock-Based Compensation Expense***

Prior to the Reorganization, the Company's equity awards included issuance of profits interests under the 2019 Equity Incentive Plan. Profits interests are a separate class of equity with defined rights within the LLC Agreement. A profits interest is an interest in the increase in the value of the Company over the threshold amount, as determined at the time of grant on a per unit basis. The threshold amount was based on the valuation of the common units on or around the grant date.

The Company accounts for stock-based compensation in accordance with ASC 718, *Compensation-Stock Compensation* (ASC 718). In accordance with ASC 718, compensation expense is measured based on the estimated grant date fair value and is recognized as compensation expense on a straight-line basis over the requisite service period (usually the vesting period). Forfeitures are accounted for as they occur. Stock-based compensation expense is recorded as either research and development or general and administrative expenses in the statements of operations and comprehensive loss based on the function to which the related services are provided.

The grant date fair value of restricted stock units is based on the closing price of the Company's common stock on the date of grant. The Company estimates the grant date fair value of stock options issued subsequent to the IPO and profits interests units issued prior to July 31, 2023 using the Black-Scholes option-pricing model. The Black-Scholes option-pricing model requires the use of several variables and assumptions that require judgment, as discussed below.

*Expected volatility*—Expected volatility is estimated based on the historical volatility of a publicly traded set of peer companies with similar characteristics to the Company, including size, stage in the life cycle and area of specialty over a period equal to the expected term, as the Company does not have sufficient trading history for its own common stock. Since its IPO, expected volatility also takes into consideration the Company's own historical volatility. The Company will continue to apply this process until adequate historical data regarding the volatility of its own stock price becomes available.

*Expected term*—The expected term represents the period that stock-based awards are expected to be outstanding. Prior to the IPO, the expected term of profits interests was determined based on the expected time to liquidity and expected vesting term. After the completion of the IPO, the Company's historical stock option exercise information is limited due to a lack of sufficient data points and therefore does not provide a reasonable basis upon which to estimate expected term. The Company has elected to use the simplified method for estimating the expected term, which is calculated as the mid-point between the vesting date and the contractual term.

*Risk-free interest rate*—The risk-free interest rate is determined by reference to the U.S. Treasury yield curve in effect at the time of grant of the award for time periods approximately equal to the expected term of the award.

*Dividends*—Expected dividend yield is zero as the Company has never paid cash dividends and has no intention to pay cash dividends for the foreseeable future.

### ***Income Taxes***

Metagenomi uses the asset and liability method to account for income taxes. Under this method, deferred tax assets and liabilities are determined based on differences between the financial statement carrying amounts of existing assets and liabilities and their tax bases. Deferred tax assets and liabilities are measured using enacted tax rates applied to taxable income in the years in which those temporary differences are expected to be recovered or settled. A valuation allowance is established when necessary to reduce deferred tax assets to the amount expected to be realized. Metagenomi assesses the likelihood of deferred tax assets being realized. It provides a valuation allowance when it is more likely than not that some portion or all of a deferred tax asset will not be realized. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the periods in which the temporary differences representing net future deductible amounts become deductible.

Tax benefits related to uncertain tax positions are recognized when it is more likely than not that a tax position will be sustained during an audit. Tax positions that meet the more-likely-than-not threshold are measured at the largest amount of tax benefit that is greater than 50% likely of being realized upon settlement with the taxing authority. Interest and penalties related to unrecognized tax benefits are included within the provision for income tax.

### ***Net Loss Per Share***

The Company calculates basic and diluted net loss per share in conformity with the two-class method required for participating securities. Under the two-class method, basic net loss per share is computed by dividing the net loss by the weighted average number of common shares outstanding during the period, without consideration of potentially dilutive securities. Diluted net loss per share is computed by dividing the net loss by the sum of the weighted average number of common shares outstanding during the period plus the dilutive effects of potentially dilutive securities outstanding during the period. Potentially dilutive securities include common stock issuable upon conversion of redeemable convertible preferred stock, common stock issuable upon settlement of profits interests, shares of restricted stock subject to future vesting, options to purchase common stock, and restricted stock units outstanding. For all periods presented, diluted net loss per share is the same as basic net loss per share since the effect of including potential dilutive securities is anti-dilutive. In connection with the Reorganization and in accordance with ASC 260, Earnings Per Share, the conversion of common units has been retrospectively reflected in the Company's net loss per share calculation, see Note 14, "Net Loss Per Share".

### ***Comprehensive Loss***

Comprehensive loss is defined as a change in equity of a business enterprise during a period resulting from transactions from non-owner sources. Comprehensive loss is comprised of net loss and other comprehensive income (loss). The Company's other comprehensive income (loss) consists of unrealized gains (losses) on available-for-sale marketable securities. The Company has not recorded any reclassifications from other comprehensive income (loss) to net loss during the periods presented.

### ***Recently Adopted Accounting Pronouncements***

In December 2023, the FASB issued ASU 2023-09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures. This ASU requires public entities, on an annual basis, to provide disclosure of specific categories in the rate reconciliation, as well as disclosure of income taxes paid disaggregated by jurisdiction. ASU 2023-09 is effective for fiscal years beginning after December 15, 2024, with early adoption permitted. The Company adopted ASU 2023-09 during the year ended December 31, 2025. Refer to Note 13, "Income Taxes", for disclosures related to the adoption of ASU 2023-09.

### ***Recently Issued Accounting Pronouncements***

In November 2024, the FASB issued ASU 2024-03, Income Statement - Reporting Comprehensive Income - Expense Disaggregation Disclosures (Subtopic 220-40): Disaggregation of Income Statement Expenses. This ASU requires, among other things, more detailed disclosures about specified categories of expense (purchases of inventory, employee compensation, depreciation, amortization, and depletion) included in certain expense captions presented on the face of the income statement. ASU 2024-03 is effective for fiscal years beginning after December 15, 2026, and for interim periods within fiscal years beginning after December 15, 2027, with early adoption permitted. This ASU may be applied prospectively with the option for retrospective application. The Company is currently evaluating the impact of the adoption of this standard on its financial statements.

### 3. Fair Value Measurements

The following tables summarize financial assets that were measured at fair value on a recurring basis by level within the fair value hierarchy (in thousands):

	December 31, 2025			
	Total	Level 1	Level 2	Level 3
Money market funds (included in cash and cash equivalents)	\$ 40,721	\$ 40,721	\$ —	\$ —
U.S. government bonds	72,177	—	72,177	—
Government agency obligations	15,825	—	15,825	—
Corporate debt obligations	15,211	—	15,211	—
Commercial paper	15,864	—	15,864	—
Total fair value of assets	<u>\$ 159,798</u>	<u>\$ 40,721</u>	<u>\$ 119,077</u>	<u>\$ —</u>

	December 31, 2024			
	Total	Level 1	Level 2	Level 3
Money market funds (included in cash and cash equivalents)	\$ 26,169	\$ 26,169	\$ —	\$ —
U.S. government bonds	109,657	—	109,657	—
Government agency obligations	40,544	—	40,544	—
Corporate debt obligations	32,353	—	32,353	—
Commercial paper	30,349	—	30,349	—
Asset-backed securities	5,520	—	5,520	—
Foreign debt securities	2,498	—	2,498	—
Long-term investments (Note 5)	1,292	—	—	1,292
Total fair value of assets	<u>\$ 248,382</u>	<u>\$ 26,169</u>	<u>\$ 220,921</u>	<u>\$ 1,292</u>

In addition, restricted cash of \$5.2 million as of December 31, 2025 and 2024, collateralized by the Company's cash equivalents, are financial assets measured at fair value and are Level 1 financial instruments under the fair value hierarchy.

The Company has investments in preferred stock, common stock and warrants of Affini-T Therapeutics, Inc. ("Affini-T") (see Note 5, "Long-Term Investments") which are Level 3 financial assets. The equity value of the investments in Affini-T was determined under a fair-value hybrid method with the changes in fair value recorded within other income (expense), net. The hybrid method is a hybrid between the probability-weighted expected returns method (the "PWERM") and the option-pricing model backsolve method (the "OPM"). As of December 31, 2025 and 2024, the estimated fair value of investments in Affini-T was zero and \$1.3 million, respectively.

The following table sets forth a summary of the changes in the fair value of the Company's Level 3 financial assets (in thousands):

	Years Ended December 31,	
	2025	2024
Beginning balance	\$ 1,292	\$ 8,521
Fair value of investment received as collaboration consideration	—	1,632
Fair value of investment purchased in preferred stock purchase agreement	—	324
Change in fair value included in other income (expense)	(1,292)	(9,185)
Ending balance	<u>\$ —</u>	<u>\$ 1,292</u>

#### 4. Marketable Securities

The following tables summarize the amortized cost, unrealized gains (losses) and fair value of available-for-sale marketable securities (in thousands):

	December 31, 2025			
	Amortized Cost	Unrealized Gains	Unrealized Losses	Fair Value
Money market funds	\$ 40,721	\$ —	\$ —	\$ 40,721
U.S. government bonds	72,006	172	(1)	72,177
Government agency obligations	15,762	63	—	15,825
Corporate debt obligations	15,201	10	—	15,211
Commercial paper	15,848	16	—	15,864
Total	159,538	261	(1)	159,798
Less: amounts classified as cash equivalents	(40,721)	—	—	(40,721)
Total available-for-sale marketable securities	<u>\$ 118,817</u>	<u>\$ 261</u>	<u>\$ (1)</u>	<u>\$ 119,077</u>

	December 31, 2024			
	Amortized Cost	Unrealized Gains	Unrealized Losses	Fair Value
Money market funds	\$ 26,169	\$ —	\$ —	\$ 26,169
U.S. government bonds	109,096	562	(1)	109,657
Government agency obligations	40,435	109	—	40,544
Corporate debt obligations	32,352	37	(36)	32,353
Commercial paper	30,324	31	(6)	30,349
Asset-backed securities	5,507	13	—	5,520
Foreign debt securities	2,498	—	—	2,498
Total	246,381	752	(43)	247,090
Less: amounts classified as cash equivalents	(26,169)	—	—	(26,169)
Total available-for-sale marketable securities	<u>\$ 220,212</u>	<u>\$ 752</u>	<u>\$ (43)</u>	<u>\$ 220,921</u>

As of December 31, 2025 and 2024, no significant facts or circumstances were present to indicate a deterioration in the creditworthiness of the issuers of the available-for-sale securities, and the Company has no requirement or intention to sell these securities before maturity or recovery of their amortized cost basis. The Company considered the current and expected future economic and market conditions and determined that its investments were not significantly impacted. During the years ended December 31, 2025 and 2024, the Company did not recognize any impairment losses on its investments.

Accrued interest receivable included in prepaid expenses and other current assets as of December 31, 2025 and 2024 was \$1.2 million and \$1.6 million, respectively. The company has not written off any accrued interest receivable during the years ended December 31, 2025 and 2024.

The amortized cost and fair value of available-for-sale marketable securities by contractual maturity were as follows (in thousands):

	December 31, 2025		December 31, 2024	
	Amortized Cost	Fair Value	Amortized Cost	Fair Value
Maturing within one year	\$ 112,777	\$ 113,038	\$ 153,484	\$ 153,893
Maturing in one to five years	6,040	6,039	66,728	67,028
Total available-for-sale marketable securities	<u>\$ 118,817</u>	<u>\$ 119,077</u>	<u>\$ 220,212</u>	<u>\$ 220,921</u>

## 5. Long-Term Investments

### *Affini-T investment*

In July 2024, pursuant to the terms of the Development, Option and License Agreement with Affini-T (the “Affini-T Agreement”), the Company received equity consideration of 933,650 shares of Affini-T common stock upon the achievement of a regulatory milestone related to the submission of drug master files to the Food and Drug Administration (“FDA”) in support of an IND application for Affini-T’s T-cell receptor-based therapy. Refer to Note 7, “Significant Agreements - Affini-T development, option and license agreement,” for further discussion of the Affini-T Agreement.

In August 2024, in connection with Affini-T’s Series B extension, the Company entered into a Joinder to Series B Preferred Stock Purchase Agreement (the “Series B Purchase Agreement”), pursuant to which the Company purchased 33,383 shares of Series B convertible preferred stock of Affini-T (the “Affini-T Series B Preferred Stock”) at a purchase price of \$9.714 per share and received warrants to purchase up to 16,691 shares of common stock at an exercise price of \$0.01 per share, for an aggregate purchase price of approximately \$0.3 million.

As of December 31, 2025 and 2024, the Company had investments in Affini-T consisting of 527,035 shares of Series A convertible preferred stock, 33,383 shares of Series B Preferred Stock, 1,867,300 shares of common stock, and a warrant exercisable for 16,691 shares of common stock. The Company performed a VIE analysis and concluded that it was not a primary beneficiary of Affini-T as of December 31, 2025 and 2024.

In September 2025, Affini-T made an assignment for the benefit of creditors to Affini (assignment for the benefit of creditors), LLC, a California limited liability company, pursuant to California state law. As of December 31, 2025 and 2024, the estimated fair value of the Company’s investments in Affini-T was zero and \$1.3 million, respectively. The Company recognized a loss related to the change in fair value of \$1.3 million and \$9.2 million during the years ended December 31, 2025 and 2024, respectively.

### *ViTToria investment*

As of December 31, 2025 and 2024, the Company had an investment in shares of preferred stock of ViTToria Biotherapeutics, Inc. (“Vittoria”), a private biotechnology company. During the years ended December 31, 2025 and 2024, the Company did not have a board seat and owned less than 20% of the outstanding voting shares of Vittoria. The investment in Vittoria does not provide the Company the ability to control or have significant influence over Vittoria’s operations. The Company accounts for its investment in Vittoria using the measurement alternative method. As of December 31, 2025 and 2024, the carrying value of Vittoria’s investment was \$2.2 million and no impairment was recognized.

## 6. Balance Sheets Components

Property and equipment, net consists of the following (in thousands):

	December 31,	
	2025	2024
Laboratory equipment	\$ 22,238	\$ 23,080
Leasehold improvements	4,392	4,375
Computer equipment and software	1,275	1,068
Furniture and fixtures	344	343
Construction in progress	—	143
Total property and equipment	28,249	29,009
Less: Accumulated depreciation	(15,961)	(11,269)
Total property and equipment, net	\$ 12,288	\$ 17,740

Depreciation expense was \$5.3 million and \$5.4 million for the years ended December 31, 2025 and 2024, respectively.

Accrued expenses and other current liabilities consist of the following (in thousands):

	December 31,	
	2025	2024
Accrued personnel related expenses	\$ 4,994	\$ 5,346
Accrued legal and professional services	711	931
Accrued research and development expenses	848	1,625
Accrued purchases of property and equipment	1	74
Other accrued liabilities	165	446
Total accrued expenses and other current liabilities	<u>\$ 6,719</u>	<u>\$ 8,422</u>

## 7. Significant Agreements

### *Ionis collaboration and license agreement*

#### *Terms of the agreement*

In November 2022, the Company entered into a Collaboration and License Agreement with Ionis Pharmaceuticals, Inc. (“Ionis”) (the “Ionis Agreement”) to research, develop and commercialize investigational medicines using our genome editing technologies, with the goal of discovering novel medicines. Pursuant to the terms of the Ionis Agreement, the Company granted Ionis and its affiliates a worldwide exclusive, royalty-bearing license, with the right to grant sublicenses, to use all licensed systems and licensed products in the field of in vivo genome editing for all therapeutic, prophylactic, palliative, and analgesic uses in humans. In connection with the Ionis Agreement, the Company also has the right to exercise an exclusive option to co-develop and co-commercialize certain products under a drug discovery program. A joint steering committee was established by both parties to coordinate, oversee and monitor the research and drug discovery activities under the Ionis Agreement.

The parties will collaborate to discover therapeutic products under a drug discovery program and develop a drug discovery plan for each target, selected by Ionis. The target selection is divided into two waves: up to four targets in Wave 1 and up to four targets in Wave 2. For each drug discovery program, once the parties identify a development candidate that is suitable for further development, Ionis will be responsible for the development and commercialization of products resulting from such program. Per the terms of the Ionis Agreement, at any time prior to the designation of a development candidate for a drug discovery program and for any reason, Ionis may replace the collaboration target, provided such target has not previously been substituted out. Ionis may substitute (i) up to two Wave 1 targets and (ii) up to two Wave 2 targets.

The drug discovery activities for a program commence on the selection of a target and expire upon the earlier of (a) completion of all drug discovery activities for such program, (b) the fifth anniversary of the effective date and (c) selection of a development candidate for such drug discovery program. If one or more Wave 2 targets become collaboration targets as a result of the parties achieving enabled delivery and less than two years are remaining in the drug discovery term, then the term will be extended to the earlier of (i) the time that the Company completes all of its activities under the applicable drug discovery plan and (ii) the seventh anniversary of the effective date, subject to the Company’s consent.

The parties will also conduct an exploratory research program, and will jointly optimize gRNA and select delivery technologies and other activities. The exploratory research activities commence on the effective date and expire upon the earlier of (a) completion of all exploratory research activities established in the exploratory research plan, and (b) the fifth anniversary of the effective date.

The Company has the exclusive option to co-develop and co-commercialize the licensed products under a drug discovery program (the “Co-Co Option”) with Ionis. The Co-Co Option may be exercised for (a) the initial Wave 1 target (“Target 1”), (b) no more than one of the other three discovery programs for the Wave 1 targets, and (c) no more than two drug discovery programs for the Wave 2 targets that become collaboration targets. If the Company exercises the Co-Co Option for a particular drug discovery program, that drug discovery program will automatically be deemed a “Co-Co Program,” all corresponding licensed products be deemed “Co-Co Products,” the Company will be obligated to pay Ionis an option exercise fee, and the parties will enter into a separate co-development and co-commercialization agreement. The Co-Co Option exercise fee will equal 50% of Ionis’ internal costs and out-of-pocket costs incurred in the conduct of the drug discovery activities prior to the exercise of the Co-Co Option and be reduced by 50% of the Company’s corresponding costs incurred. Future development and commercialization costs will be shared equally. The Company may elect to reduce its cost-share percentage anywhere between 50% and 25% on a go-forward basis, provided the Company will continue to bear 50% of the costs of any clinical trials ongoing at the time of the election through the completion of the clinical trials.

The Company will manufacture all licensed systems and certain components of the applicable licensed products that are needed by Ionis for use in its development activities and all of the Company's manufactured components needed by Ionis for use in its commercialization activities. The Company will provide the manufactured components at a price that represents the cost of goods plus 15%. As of December 31, 2025, the Company received a total of \$2.4 million related to the manufactured components.

Pursuant to the terms of the Ionis Agreement, the Company has also been granted an option to obtain a non-exclusive, royalty-bearing license, with the right to grant sublicenses, for certain Ionis' background technology to use in up to eight therapeutic products discovered by the Company in the field of in vivo genome editing and directed to a Collaboration Target (each such product, a "Metagenomi Product" and each such option an "Ionis IP Option"), but subject to encumbrance checks with respect to particular targets. A Collaboration Target is a target that is selected by Ionis, and, with respect to the Company is not the subject of discussions with a third party, is not the subject of a contractual grant of rights to a third party nor the subject to an internal research and development program. If the Company exercises its Ionis IP Option, the Company will pay to Ionis up to several million dollars per Metagenomi Product upon achievement of certain clinical and regulatory milestones. The Company is also obligated to pay Ionis royalties in an amount equal to a low single-digit royalty on the net sales of the applicable Metagenomi Product on a product-by-product and country-by-country basis.

In November 2022, the Company received an \$80.0 million upfront payment from Ionis for the Wave 1 drug discovery research collaboration and selected Target 1. Ionis selected its second target ("Target 2") in Wave 1 in December 2022, its third target ("Target 3") in Wave 1 in November 2023, and its fourth target ("Target 4") in Wave 1 in February 2024. Ionis has an option to select up to four Wave 2 targets at any time during the drug discovery term, if (a) an IND for any licensed product directed to a Wave 1 target is filed with the applicable regulatory authority or (b) the parties achieve enabled delivery for a non-liver target under the exploratory research activities, by providing written notice and by paying a Wave 2 target selection fee of \$15.0 million or \$30.0 million, depending on and per the selected target.

Ionis is obligated to reimburse the Company for all internal costs and out-of-pocket costs incurred in the performance of the exploratory research activities, up to an aggregate of \$10.0 million, which is payable in quarterly installments of \$0.5 million during the exploratory research term. As of December 31, 2025, the Company received a total of \$5.8 million related to the reimbursable expenses. The Company is also eligible to receive (a) up to \$29.0 million in future development milestone payments for each licensed product; (b) up to \$60.0 million in future regulatory milestone payments for each licensed product; (c) up to \$250.0 million in sales-based milestones for each licensed product; and (d) royalties on annual net sales of licensed products from a mid-single-digit to low-teens percentage, subject to customary reductions.

The term of the Ionis Agreement will continue (i) with respect to the drug discovery programs, until the expiration of all applicable royalty terms for a licensed product, (ii) with respect to the Co-Co Programs, until the parties cease all exploitation for the Co-Co Products that are the subject to such Co-Co Program, and with respect to the Metagenomi Products, until the expiration of the royalty term for a Metagenomi Product. The royalty term ends on the latest of the following two dates: (i) the expiration of (A) the last claim of any issued and unexpired patent, or (B) a claim within a patent application that has not been pending for more than seven years from the earliest date to which the claim or applicable patent application is entitled to claim priority and which claim has not been revoked, canceled, withdrawn, held invalid, or abandoned, or (ii) 12 years following the first commercial sale of a licensed product.

The Ionis Agreement may be terminated during the term by either party for an uncured material breach or bankruptcy by the other party. Additionally, Ionis may terminate the Ionis Agreement for convenience and without penalty, in its entirety or on a licensed product-by-licensed product basis, by providing 90 days' written notice.

#### *Accounting analysis and revenue recognition*

The Company concluded that the Ionis Agreement is in the scope of ASC 606 at the effective date and until the Company exercises its Co-Co Option for any drug discovery program, which was determined to not be probable at the effective date and as of December 31, 2025 and 2024. The Company also concluded that exclusive licenses and participation in a joint steering committee are not distinct from discovery research services and should thus be combined into one performance obligation (the "discovery program"). The Company also concluded that exploratory research services are a separate and distinct performance obligation (the "exploratory program"). The Ionis options for Wave 2 targets are optional purchases and do not have significant incremental discounts, as such, the options do not provide material rights.

The Company allocated the initial total estimated transaction price of \$90.0 million, which consisted of an \$80.0 million upfront payment received in November 2022 and \$10.0 million in reimbursements for research costs, into two performance obligations, which was determined based on their estimated standalone selling prices. The Company concluded that future development and commercial supply agreements are at market terms, as the terms were consistent with industry standards as of the effective date. The Company constrains future milestone payments under the arrangement to the extent that the inclusion of such variable consideration could result in a significant reversal of cumulative revenue in future periods. The Company constrained all development and regulatory milestone payments at the effective date and as of December 31, 2025 and 2024. The Company is recognizing revenue of \$80.0 million related to the discovery program and \$10.0 million related to exploratory program over the research terms using an estimated cost-based input method as a measure of progress for each obligation.

In June 2024, the Company included previously constrained estimated manufacturing costs in the transaction price, resulting in a \$3.4 million increase to variable consideration. The Company recognized collaboration revenue of \$24.6 million and \$30.4 million for the years ended December 31, 2025 and 2024, respectively, of which \$21.2 million and \$26.6 million, respectively, was included in deferred revenue as of December 31, 2024 and 2023. As of December 31, 2025 and 2024, deferred revenue related to the Ionis Agreement was \$11.7 million and \$32.8 million, respectively. As of December 31, 2025 and 2024, the accounts receivable balance was \$0.3 million and \$1.1 million, respectively. The value of the transaction price allocated to the remaining performance obligations was approximately \$16.4 million as of December 31, 2025, which the Company expects to recognize as revenue over the next two years.

#### ***Acuitas license agreement***

In September 2025 (the “Effective Date”), the Company entered into a Non-Exclusive License Agreement (the “Acuitas License Agreement”) with Acuitas Therapeutics, Inc. (“Acuitas”) pursuant to which Acuitas granted the Company a non-exclusive license to certain Acuitas lipid nanoparticle (“LNP”) technology, including LNP patents, formulation processes, and analytical characterization methods for manufacturing products that incorporate the Company’s proprietary genome editing constructs formulated with Acuitas LNP technology, to research, develop, sell, and commercialize certain licensed products in connection with a single target.

Simultaneous with the execution of the Acuitas License Agreement, the Company was obligated to pay a licensing fee of \$3.0 million. As the licensed products have not reached technological feasibility and have no alternate use, the licensing fee was recorded as research and development expense. Further, the Company is also obligated to pay Acuitas (i) a license maintenance fee in the low seven figures, payable on the one year anniversary of the Effective Date and each twelve month anniversary thereafter until such time as the first patient is dosed in a Phase 1 study for a licensed product under the Acuitas License Agreement; (ii) milestone payments in the low to mid seven figures upon certain regulatory and commercialization milestones; and (iii) royalties in the low mid-single digit percentage of net sales. The Company assessed the milestone and royalty events involving the Acuitas License Agreement and determined that no accruals related to such events were required as of December 31, 2025.

The Acuitas License Agreement will remain in effect on a licensed product-by-licensed product and country-by-country basis until there are no outstanding royalty payments owed to Acuitas. Further, the Acuitas License Agreement may be terminated by either party for material breach or upon a party’s insolvency or bankruptcy, and Acuitas may immediately terminate in specified situations. Upon 30 days written notice, the Company has the right to terminate the Acuitas License Agreement at its discretion.

#### ***Affini-T development, option and license agreement***

##### ***Terms of the agreement***

The Company was previously party to the Affini-T Agreement, entered into in June 2022. On September 30, 2025 (the “Termination Date”), the Company delivered to Affini-T a notice to terminate the Affini-T Agreement by and between the Company and Affini-T (the “Termination”), effective immediately, due to Affini-T’s making of an assignment for the benefit of creditors.

Under the Affini-T Agreement, the Company and Affini-T agreed to identify, develop, or optimize certain reagents using the Company’s proprietary technology for Affini-T to use such reagents to develop and commercialize gene edited T-cell receptor (“TCR”)-based therapeutic products exclusively in the field of treatment, prevention or diagnosis of any human cancer using products with any engineered primary TCR alpha/beta T cells and non-exclusively in the field of treatment, prevention or diagnosis of any human cancer using products with certain other engineered immune cells worldwide. As a result of the Termination, the Company regained (i) full control over all intellectual property rights it had licensed to Affini-T for developing TCR-based therapeutic products that were subject to the Affini-T Agreement; (ii) the right to freely operate in areas where it was previously restricted pursuant to the Affini-T Agreement; and (iii) full control over the manufacture and supply of its proprietary reagents.

Pursuant to the Affini-T Agreement, the Company granted Affini-T options to receive, on a pre-specified target-by-pre-specified target basis, for up to six pre-specified targets, either (i) an exclusive, royalty-bearing, sublicensable worldwide license under all of the Company's applicable intellectual property to research, develop, manufacture, use, commercialize and otherwise exploit any TCR-based therapy, preventative treatment, or diagnostic for humans that is directed to such pre-specified target, contains or comprises Primary TCR alpha/beta T Cells and is derived from ex vivo application of a Company reagent (the "Exclusive Option") or (ii) a non-exclusive, royalty-bearing, sublicensable worldwide license under all of the Company's applicable intellectual property to research, develop, manufacture, use, commercialize and otherwise exploit any TCR-based therapy, preventative treatment, or diagnostic for humans that is directed to such pre-specified target, contains or comprises TCR natural killer ("NK") cells derived from iPSC immune cells or TCR T cells derived from donor-derived or iPSC immune cells. Affini-T could exercise its options for either an exclusive license or a non-exclusive license, or both, for each pre-specified target by providing written notice prior to the earlier of (x) the end of the Affini-T Agreement term or (y) 90 days following the filing of an IND for a licensed product directed to a pre-specified target, subject to the payment of certain fees per each option exercised. The initial term of the Affini-T Agreement was five years from the effective date. After the option exercise, Affini-T agreed to use commercially reasonable efforts to conduct all development and commercialization activities for a licensed product, and development and commercialization of all licensed products would be at Affini-T's sole cost and expense. On April 14, 2025, Affini-T exercised an option to a non-exclusive license for one of its pre-specified targets triggering an exercise payment to the Company of \$0.3 million.

In connection with the Affini-T Agreement, the Company received upfront equity consideration of 719,920 shares of Affini-T's common stock with an estimated fair value of \$1.3 million in June 2022. Upon achievement of a regulatory milestone in July 2024 related to the submission of drug master files to the FDA in support of an IND for Affini-T's T-cell receptor-based therapy, the Company received additional equity consideration of 933,650 shares of Affini-T common stock with an estimated fair value of \$1.6 million in July 2024. The fair value of Affini-T's shares of common stock was estimated by management, considering the most recent third-party valuation at the time of each grant. Affini-T has also agreed to reimburse the Company for expenses incurred while performing research activities under the research plans. As of December 31, 2025, the Company has received a total of \$7.8 million from Affini-T related to reimbursable expenses.

#### *Accounting analysis and revenue recognition*

The Company concluded that the Affini-T Agreement was in the scope of ASC 606 and that there was one performance obligation to perform research activities under the Affini-T Agreement. Exclusive and non-exclusive licenses were optional contingent purchases that did not include significant incremental discounts, and therefore did not provide a material right.

At the effective date, the transaction price consisted of the upfront equity consideration with an estimated fair value of \$1.3 million and estimated research reimbursement costs. Research reimbursement costs represent variable consideration, and the Company's management estimated what portion to include in total consideration at the end of each reporting period. Other payments under the Affini-T Agreement, including additional equity consideration and development and regulatory milestones, also represented variable consideration, and were constrained at the effective date to the extent that the inclusion of such variable consideration could result in a significant reversal of cumulative revenue in future periods. In June 2023, the joint steering committee approved the budget for estimated research reimbursement costs for the Affini-T Agreement, which resulted in a \$2.4 million reduction to variable consideration. In July 2024, the Company included previously constrained additional equity consideration related to the regulatory milestone with an estimated fair value of \$1.6 million in the transaction price, resulting in an increase to variable consideration. As of December 31, 2024, future development and regulatory milestone payments were excluded from the estimated total transaction price as they were considered constrained. The transaction price was reevaluated in each reporting period and as changes in circumstances occurred. The Company recognized revenue each reporting period based on the measure of progress using an estimated cost-based input method.

Due to the Termination, the Company recognized all remaining deferred revenue as revenue during the year ended December 31, 2025. The Company recognized collaboration revenue of \$0.6 million and \$3.1 million in the statements of operations and comprehensive loss for the years ended December 31, 2025 and 2024, respectively. As of December 31, 2025, the accounts receivable balance, net of allowance for doubtful accounts, was zero. The accounts receivable balance of \$0.3 million related to an option exercise payment, was fully reserved. As of December 31, 2024, the accounts receivable balance was \$0.2 million related to services performed. There was no contract asset related to services performed as of December 31, 2025 and 2024.

As of December 31, 2025 and 2024, deferred revenue related to the Affini-T Agreement was zero and \$0.2 million, respectively. As of December 31, 2025, there were no remaining unsatisfied performance obligations.

### ***Moderna strategic collaboration and license agreement***

The Company was previously party to a Strategic Collaboration and License Agreement with ModernaTX, Inc. (“Moderna”) (the “Moderna Agreement”), entered into in October 2021. Pursuant to the terms of the Moderna Agreement, the Company and Moderna collaborated on the research and development of in vivo genome editing therapies directed at certain targets and the commercialization of such genome editing therapies. On April 26, 2024, the Company and Moderna mutually terminated the Moderna Agreement (the “Termination”). The Moderna Agreement was terminated pursuant to a Mutual Termination Agreement (the “Termination Agreement”), dated as of April 26, 2024, by and between the Company and Moderna. As a result of the Termination, the Company regained full development and commercialization rights to its wholly-owned base editing and RNA-mediated integration systems that were subject to the Moderna Agreement.

The Company recognized collaboration revenue \$18.7 million in the statements of operations and comprehensive loss for the year ended December 31, 2024, which was included in deferred revenue as of December 31, 2023. As of December 31, 2025, there were no remaining unsatisfied performance obligations. As of December 31, 2025 and 2024, the accounts receivable, deferred revenue and collaboration advance balances were zero.

## **8. Commitments and Contingencies**

### *Operating leases*

In January 2021, the Company entered into a ten-year operating lease for laboratory and office space in Emeryville, California. The lease commencement date was in February 2021. In conjunction with signing this lease, the Company secured a letter of credit. As of December 31, 2025 and 2024, the balance of this letter of credit was \$1.7 million and \$2.5 million, respectively, and is recorded as noncurrent restricted cash in the balance sheets. The lease agreement includes a renewal provision allowing the Company to extend this lease for an additional five years, which the Company is not reasonably certain to exercise.

In September 2021, the Company entered into a 9.25-year operating lease for office space in Emeryville, California, with a lease commencement date in November 2021. In conjunction with signing the lease, the Company secured a letter of credit. As of December 31, 2025 and 2024, the balance of this letter of credit was \$0.6 million and \$0.8 million, respectively, and is recorded as noncurrent restricted cash in the balance sheets.

In November 2022, the Company entered into an 8.25-year sublease for office, research and laboratory space in Emeryville, California, with a lease commencement date in January 2023. In conjunction with signing the lease, the Company secured a letter of credit for \$2.0 million, which is recorded as noncurrent restricted cash in the balance sheets as of December 31, 2025 and 2024.

The Company has a lease agreement for vivarium space for which the Company has recorded a right of use asset and liability. These arrangements are not significant in comparison to the Company’s total operating lease assets and liabilities. In addition, the Company has identified certain short-term leases which are not recorded on the Company’s balance sheet in accordance with the practical expedient elected.

The following table summarizes operating lease costs for the years ended December 31, 2025 and 2024 (in thousands):

	Years Ended December 31,	
	2025	2024
Operating lease cost	\$ 10,104	\$ 9,869
Variable lease cost	3,270	3,092
Total lease cost	<u>\$ 13,374</u>	<u>\$ 12,961</u>

Supplemental information related to the Company’s operating leases is as follows (in thousands):

	Years Ended December 31,	
	2025	2024
Cash paid for amounts included in the measurement of lease liabilities	\$ 10,404	\$ 8,627
Weighted average remaining lease term (in years)	5.2	6.1
Weighted-average discount rate	11.3%	11.3%

The following table summarizes future minimum lease payments as of December 31, 2025 (in thousands):

	<b>Amount</b>
2026	\$ 10,209
2027	9,993
2028	10,328
2029	10,672
2030	11,027
Thereafter	1,255
<b>Total future lease payments</b>	<b>53,484</b>
Less imputed interest	(12,827)
<b>Total lease liability balance</b>	<b>40,657</b>
Less: current operating lease liabilities	(6,025)
<b>Non-current operating lease liabilities</b>	<b>\$ 34,632</b>

#### *Legal contingencies*

On September 26, 2024, a class action complaint was filed in the U.S. District Court for the Northern District of California against the Company and certain of the Company's officers and certain of its current and former directors, captioned *Vreeland v. Metagenomi Inc. et al.*, No. 5:24-cv-06765 (the "Securities Action"). On February 10, 2025, the court appointed Mingxi Bi as lead plaintiff. On April 4, 2025, the plaintiffs filed an amended complaint. The operative complaint in the Securities Action alleges violations of Section 11 of the Securities Act against all defendants and control person violations of Section 15 against the individuals. The Securities Action alleges that the defendants made misleading statements and omitted to disclose material information concerning the Company's collaboration with Moderna in the Company's registration statement and final prospectus materials filed in January 2024 and February 2024. The Securities Action seeks, among other things, compensatory damages as well as costs and expenses, including attorneys' fees and expert fees. On May 16, 2025, all defendants filed a motion to dismiss the claims of the Securities Action, which is currently pending. The Company is currently unable to predict the outcome of this lawsuit and therefore cannot determine the likelihood of loss, if any, nor estimate a range of possible loss. The Company intends to defend vigorously against this litigation.

From time to time, the Company may become involved in legal proceedings arising from the ordinary course of business. The Company records a liability for such matters when it is probable that future losses will be incurred and that such losses can be reasonably estimated. Significant judgment by the Company is required to determine both probability and the estimated amount. Other than the Securities Action, the Company is currently not aware of any legal matters that could have a material adverse effect on the Company's financial position, results of operations or cash flows.

#### *Guarantees and indemnifications*

In the normal course of business, the Company enters into agreements that contain a variety of representations and provide for general indemnification. Its exposure under these agreements is unknown because it involves claims that may be made against the Company in the future. To the extent permitted under Delaware law, the Company has agreed to indemnify its directors and officers for certain events or occurrences while the director or officer is, or was serving, at a request in such capacity. To date, the Company has not paid any claims or been required to defend any action related to its indemnification obligations. As of December 31, 2025 and 2024, the Company did not have any material indemnification claims that were probable or reasonably possible and consequently has not recorded related liabilities.

### **9. Redeemable Convertible Preferred Stock**

On January 24, 2024, in connection with the Reorganization, all outstanding redeemable convertible preferred units were converted into an equal number of shares of redeemable convertible preferred stock. Immediately prior to the closing of the IPO, all of the then-outstanding shares of redeemable convertible preferred stock converted into 23,935,594 shares of common stock.

### **10. Common Stock**

The amended and restated certificate of incorporation, as amended, authorizes the Company to issue 500,000,000 shares of common stock. Each share of common stock is entitled to cast one vote. The holders of common stock are also entitled to receive distributions whenever funds are legally available and when declared by the Company's Board of Directors. No distributions have been declared from inception to date.

## 11. Stock-Based Compensation

### 2019 Equity Incentive Plan

Prior to the Reorganization, the Company granted profits interests under the 2019 Equity Incentive Plan, adopted on March 13, 2019 (the “2019 Plan”). The Company granted profits interests with a threshold amount established by the Board of Managers of the Company’s predecessor, Metagenomi LLC, on the date of issuance. The 2019 Plan allowed for grants of profits interests to the Company’s officers, employees, directors and consultants. Immediately after the Reorganization, all of the outstanding 9,142,176 profits interest units were exchanged for 3,884,870 shares of common stock, of which 1,036,833 were subject to certain vesting conditions.

The following table presents a summary of the unvested common stock activity:

<u>Unvested Common Stock</u>	<u>Number of Shares</u>	<u>Weighted-Average Grant Date Fair Value</u>
Outstanding as of December 31, 2024	456,435	\$ 24.54
Vested	(308,058)	17.74
Forfeited	(87,250)	26.58
Outstanding as of December 31, 2025	<u>61,127</u>	<u>\$ 55.85</u>

The total fair value of common stock that vested during the years ended December 31, 2025 and 2024 was \$0.6 million and \$2.9 million, respectively. The aggregate intrinsic value of restricted stock awards outstanding on December 31, 2025 was \$0.1 million.

### 2024 Stock Option and Incentive Plan

In January 2024, the Board of Directors adopted and the stockholders approved the 2024 Stock Option and Incentive Plan (“2024 Plan”), which became effective immediately prior to the closing of the IPO. The 2024 Plan allows the Company to make equity-based and cash-based incentive awards to its officers, employees, directors, and consultants. The 2024 Plan provides for the grant of incentive stock options, non-qualified stock options, restricted stock units, restricted stock awards, and other stock-based awards. Awards granted under the 2024 Plan expire no later than ten years from the date of grant. For stock options, the option price shall not be less than 100% of the estimated fair value on the date of grant. Stock options and restricted stock units typically vest over four-years but may be granted with different vesting terms.

The Company initially reserved 6,690,000 shares of common stock for future issuance under the 2024 Plan. The number of shares of common stock reserved and available for issuance under the 2024 Plan will automatically increase on each January 1, commencing on January 1, 2025 and through 2034, by five percent of the number of shares of the Company’s common stock issued and outstanding on the immediately preceding December 31, or such lesser number of shares as determined by the Company’s compensation committee. On January 1, 2025, the common stock available for issuance under the 2024 Plan automatically increased by 1,870,923 shares. As of December 31, 2025, there were 2,107,125 shares available for future issuance under the 2024 Plan.

### Stock Option Activity

The following table presents a summary of the stock option activity:

<u>Stock Options</u>	<u>Number of Shares</u>	<u>Weighted- Average Exercise Price</u>	<u>Weighted- Average Remaining Contractual Term (years)</u>	<u>Aggregate Intrinsic Value (thousands)</u>
Outstanding as of December 31, 2024	3,436,430	\$ 9.54	9.32	\$ 715
Granted	1,673,243	1.52		
Forfeited/Expired	(1,149,184)	8.09		
Outstanding as of December 31, 2025	<u>3,960,489</u>	<u>\$ 6.57</u>	<u>7.96</u>	<u>\$ 265</u>
Exercisable as of December 31, 2025	<u>1,197,991</u>	<u>\$ 9.68</u>	<u>6.87</u>	<u>\$ —</u>

The weighted-average grant date fair value of stock options granted during the years ended December 31, 2025 and 2024 was \$1.12 and \$6.94, respectively. There were no stock option exercises during the years ended December 31, 2025 and 2024.

### Restricted Stock Unit Activity

The following table presents a summary of the restricted stock unit activity:

Restricted Stock Units	Number of Shares	Weighted-Average Grant Date Fair Value
Outstanding as of December 31, 2024	465,857	\$ 9.30
Granted	2,244,527	1.56
Vested	(151,193)	9.49
Forfeited	(241,876)	4.56
Outstanding as of December 31, 2025	2,317,315	\$ 2.29

The total fair value of restricted stock units that vested during the years ended December 31, 2025 and 2024 was \$0.3 million and \$0.1 million, respectively. The aggregate intrinsic value of restricted stock units outstanding on December 31, 2025 was \$3.8 million.

### 2024 Employee Stock Purchase Plan

In January 2024, the Board of Directors adopted and the stockholders approved the 2024 Employee Stock Purchase Plan (“ESPP”), which became effective upon the date immediately preceding the date on which the Company’s registration statement was declared effective by the SEC. Under the ESPP, employees, subject to certain restrictions, may purchase shares of common stock at 85% of the fair market value at either the first business day or the last business day of the offering period, whichever is lower. Purchases are limited to the lesser of 15% of each employee’s eligible annual compensation or \$25,000.

The Company initially reserved 375,000 shares of common stock for future issuance under the ESPP. The number of shares of common stock reserved and available for issuance under the ESPP will automatically increase on each January 1, commencing on January 1, 2025 and through 2034, by the least of (i) 750,000 shares of common stock; (ii) one percent of the number of shares of the Company’s common stock issued and outstanding on the immediately preceding December 31, or (iii) such lesser number of shares as determined by the Company’s compensation committee. On January 1, 2025, the common stock available for issuance under the ESPP automatically increased by 374,184 shares. As of December 31, 2025, there were 610,929 shares available for issuance under the ESPP.

### Compensation Expense

The assumptions used in the Black-Scholes option-pricing model for stock options granted were:

	Years Ended December 31,	
	2025	2024
Expected volatility	83.59% — 85.45%	79.58% — 80.99%
Risk-free interest rate	3.74% — 4.43%	3.63% — 4.72%
Expected term (in years)	5.50 — 6.08	5.31 — 6.08
Expected dividend yield	0%	0%

The following table presents the classification of stock-based compensation expense for the periods presented (in thousands):

	Years Ended December 31,	
	2025	2024
Research and development expenses	\$ 4,817	\$ 8,891
General and administrative expenses	7,036	7,313
Total	\$ 11,853	\$ 16,204

Stock-based compensation expense related to the following awards for the periods presented (in thousands):

	Years Ended December 31,	
	2025	2024
Profits Interests	\$ —	\$ 635
Restricted Stock Awards	5,568	9,555
Stock Options	5,118	5,117
Restricted Stock Units	1,057	884
Employee Stock Purchase Plan	110	13
Total	<u>\$ 11,853</u>	<u>\$ 16,204</u>

As of December 31, 2025, there was \$3.4 million of unrecognized compensation expense related to restricted stock awards that is expected to be recognized over a weighted-average period of 1.0 years, \$9.7 million of unrecognized compensation expense related to stock options that is expected to be recognized over a weighted-average period of 2.6 years and \$5.1 million of unrecognized compensation expense related to restricted stock units that is expected to be recognized over a weighted-average period of 2.2 years.

## 12. Segment Information

The Company operates and manages its business as one operating and reportable segment, which is the business of developing curative therapeutics for patients using the Company's proprietary, comprehensive metagenomics-derived genome editing toolbox. All of the Company's long-lived assets are located in the U.S. All revenue presented relate to contracts with customers located in the U.S. The chief executive officer, who is the chief operating decision maker (CODM), reviews financial information on a basis for purposes of evaluating financial performance, making operating decisions, allocating resources and planning and forecasting for future periods. The CODM assesses performance and decides how to allocate resources based on net loss. This measure is used to monitor budget versus actual results to evaluate the performance of the segment.

The following table presents the results of operations that are provided to the Company's CODM for the periods presented (in thousands).

	Years Ended December 31,	
	2025	2024
Collaboration revenue:		
Ionis	\$ 24,621	\$ 30,439
Moderna	—	18,742
Affini-T	564	3,114
Other	25	—
Total collaboration revenue	<u>25,210</u>	<u>52,295</u>
Operating expenses:		
Employee-related expenses	40,014	47,566
Stock-based compensation expense	11,853	16,204
Research and development supplies and services	30,067	33,237
Facilities and overhead costs	28,982	31,572
Professional services and consulting	10,307	12,617
Total operating expenses	<u>121,223</u>	<u>141,196</u>
Loss from operations	(96,013)	(88,901)
Other income (expense):		
Interest and other income, net	9,379	14,515
Change in fair value of long-term investments	(1,292)	(9,185)
Benefit from income taxes	58	5,513
Net loss	<u>\$ (87,868)</u>	<u>\$ (78,058)</u>

### 13. Income Taxes

The Company is a corporation for tax purposes and is subject to income taxes which have been included in the financial statements. All pre-tax losses have been incurred in the U.S.

The loss before benefit from income taxes is as follows (in thousands):

	Years Ended December 31,	
	2025	2024
Domestic	\$ (87,926)	\$ (83,571)
Total	\$ (87,926)	\$ (83,571)

Income tax benefit consisted of the following (in thousands):

	Years Ended December 31,	
	2025	2024
Current:		
Federal	\$ 58	\$ 5,513
State	—	—
Total current tax benefit	58	5,513
Deferred:		
Federal	—	—
State	—	—
Total deferred tax expense	—	—
Total tax benefit	\$ 58	\$ 5,513

As discussed in Note 2, we adopted ASU 2023-09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures, during the year ended December 31, 2025 on a prospective basis. As a result, our rate reconciliation for 2025 is presented in accordance with the new disclosure requirements, while the reconciliation for 2024 continues to be presented under disclosure requirements in effect for that period.

Cash paid for income taxes, net of refunds received, by jurisdiction pursuant to the disclosure requirements of ASU 2023-09 for the year ended December 31, 2025 only includes a federal refund received of \$2.2 million.

The effective income tax rate for the year ended December 31, 2025 differs from the statutory federal income tax rate as follows (in thousands, except percentages):

	Year Ended December 31, 2025	
	Amount	%
U.S. federal statutory tax rate	\$ (18,464)	21.0%
State and local income taxes, net of federal income tax effect <sup>(1)</sup>	(309)	0.4%
Tax credits:		
Research and development tax credits	(3,790)	4.3%
Changes in valuation allowance	18,997	(21.6)%
Nontaxable or nondeductible items:		
Share-based compensation	1,942	(2.2)%
Other	196	(0.2)%
Changes in unrecognized tax benefits <sup>(2)</sup>	1,409	(1.6)%
Other adjustments	(39)	0.0%
Effective tax rate	\$ (58)	0.1%

<sup>(1)</sup> California represents the majority of the tax effect in this category

<sup>(2)</sup> Changes in unrecognized tax benefits on an aggregated basis for all jurisdictions

The effective income tax rate for the year ended December 31, 2024, differs from the statutory federal income tax rate as follows:

	Year Ended December 31, 2024
U.S. federal statutory tax rate	21.0%
Share-based compensation	(3.2)%
Permanent and other adjustments	(0.9)%
Change in valuation allowance	(16.2)%
Research credits	5.9%
Total	6.6%

Significant components of the deferred tax assets for federal and state income taxes are as follows (in thousands):

	December 31,	
	2025	2024
Deferred tax assets:		
Net operating loss carry forwards	\$ 51,726	\$ 17,852
Research credits	8,146	3,578
Reserves and accruals	4,998	3,923
Lease liability	11,377	12,810
Deferred revenue	3,445	9,341
Capitalized research and development expenses	24,870	33,606
Total deferred tax assets	104,562	81,110
Deferred tax liabilities:		
Property and equipment	(2,355)	(3,387)
Right-of-use asset	(9,821)	(11,170)
Total gross deferred tax liabilities	(12,176)	(14,557)
Less: Valuation allowance	(92,386)	(66,553)
Net deferred tax assets	\$ —	\$ —

A valuation allowance is required to be established when it is more likely than not that all or a portion of a deferred tax asset will not be realized. Realization of deferred tax assets is dependent upon future earnings, the timing and amount of which are uncertain. The Company believes that, based on a number of factors such as the history of operating losses, it is more likely than not that the deferred tax assets will not be fully realized, such that a full valuation allowance has been recorded. The valuation allowance increased by \$25.8 million for the year ended December 31, 2025, primarily due to the increase in net operating loss carryforwards. The valuation allowance increased by \$18.8 million for the year ended December 31, 2024, primarily due to the increase in net operating loss carryforwards and capitalization of research and development expenses under Section 174.

As of December 31, 2025, the Company had \$175.3 million and \$213.5 million of net operating loss carryforwards for federal and state income tax purposes, respectively. Federal net operating loss carryforwards do not expire. State net operating loss carryforwards begin expiring in 2037. As of December 31, 2025, the Company had \$3.3 million and \$6.1 million of research credit carryforwards for federal and state income tax purposes, respectively. Federal research credit carryforwards begin expiring in 2045. State research credit carryforwards do not expire and can be carried forward indefinitely.

Utilization of some of the federal and state net operating losses and credit carryforwards may be subject to annual limitations due to the change in ownership provisions of the Internal Revenue Code of 1986 (“Internal Revenue Code”) and similar state provisions. The annual limitation may result in the expiration of net operating losses and credits before utilization.

The Company uses the “more likely than not” criterion for recognizing the income tax benefit of uncertain income tax positions and establishing measurement criteria for income tax benefits. Although it is reasonably possible that certain unrecognized tax benefits may increase or decrease within the next twelve months due to tax examination changes, settlement activities, expirations of statute of limitations, or the impact on recognition and measurement considerations related to the results of published tax cases or other similar activities, the Company does not anticipate significant changes to unrecognized tax benefits over the next 12 months. The Company recognizes interest related to income tax matters as a component of income tax expense. As of December 31, 2025, the amount of accrued interest related to uncertain tax positions was \$0.2 million. During the years ended December 31, 2025 and 2024, no penalties were recognized relating to unrecognized tax benefits. In the event the Company should need to recognize penalties related to unrecognized income tax liabilities, this amount will be recorded as an accrued liability and an increase to income tax expense.

Changes in the balance of gross unrecognized tax benefits, which excludes interest and penalties, are as follows (in thousands):

	Years Ended December 31,	
	2025	2024
Beginning balance	\$ 7,547	\$ 5,943
Gross increases—tax position in current period	1,180	2,234
Gross increases—tax position in prior periods	65	121
Reductions for tax positions of prior years	(846)	(751)
Ending balance	<u>\$ 7,946</u>	<u>\$ 7,547</u>

The Company files tax returns in the U.S. and California. The Company is not currently under examination in any of these jurisdictions and all its tax years remain effectively open to examination due to net operating losses from inception. As of December 31, 2025, the balance of unrecognized tax benefits was \$7.9 million of which \$7.3 million, if recognized, would affect the effective tax rate.

#### 14. Net Loss Per Share

Basic and diluted net loss per share attributable to common stockholders is calculated as follows (in thousands except share and per share amounts):

	Years Ended December 31,	
	2025	2024
Numerator:		
Net loss attributable to common stockholders	\$ (87,868)	\$ (78,058)
Denominator:		
Weighted-average common shares outstanding	37,480,294	33,563,281
Less: Weighted-average unvested shares of common stock	(229,244)	(535,392)
Weighted-average common shares outstanding—basic and diluted	<u>37,251,050</u>	<u>33,027,889</u>
Net loss per share attributable to common stockholders—basic and diluted	<u>\$ (2.36)</u>	<u>\$ (2.36)</u>

The following outstanding potentially dilutive securities have been excluded from the calculation of diluted net loss per share, as their effect would have been anti-dilutive:

	Years Ended December 31,	
	2025	2024
Options to purchase common stock	3,960,489	3,436,430
Restricted stock units	2,317,315	465,857
Restricted stock subject to future vesting	61,127	456,435
Employee stock purchase plan	67,260	—
Total	<u>6,406,191</u>	<u>4,358,722</u>

#### 15. Employee Retirement Plan

The Company has a defined contribution plan under Section 401(k) of the Internal Revenue Code (the “401(k) Plan”), covering its employees. Employees may contribute a percentage of their annual compensation to this plan, subject to the maximum allowable amount set by the Internal Revenue Service. The 401(k) Plan provides that the Company matches each participant’s contribution at 100% up to the first 5% of the employee’s eligible compensation. The Company’s contributions to the 401(k) Plan were \$1.4 million and \$1.7 million for the years ended December 31, 2025 and 2024, respectively.

**Description of the Registrant's Securities Registered Pursuant to  
Section 12 of the Securities Exchange Act of 1934, as amended**

*The following summary of the general terms and provisions of the registered capital stock of Metagenomi Therapeutics, Inc. ("Metagenomi", "we", "our") does not purport to be complete and is subject to, and qualified in its entirety by, reference to our Amended and Restated Certificate of Incorporation, as amended, or certificate of incorporation, our Second Amended and Restated Bylaws, or bylaws, each of which is incorporated by reference as an exhibit to the Annual Report on Form 10-K of which this Exhibit 4.3 is a part, and applicable provisions of the Delaware General Corporation Law, or the DGCL. Our common stock, par value \$0.0001 per share is registered pursuant to Section 12(b) of the Securities and Exchange Act of 1934 and trades on The Nasdaq Global Select Market under the symbol MGX. The summaries below do not purport to be complete statements of the relevant provisions of the certificate of incorporation, the bylaws or the DGCL.*

**General**

Our authorized capital stock consists of 500,000,000 shares of common stock, par value \$0.0001 per share, and 10,000,000 shares of preferred stock, par value \$0.0001 per share, all of which shares of preferred stock are undesignated.

**Common Stock and Non-Voting Common Stock**

The holders of our common stock are entitled to one vote for each share held on all matters submitted to a vote of the common stockholders. The holders of our common stock do not have any cumulative voting rights. Holders of our common stock are entitled to receive ratably any dividends declared by our board of directors out of funds legally available for that purpose, subject to any preferential dividend rights of any outstanding preferred stock. Our common stock has no preemptive rights, conversion rights or other subscription rights or redemption or sinking fund provisions.

In the event of our liquidation, dissolution or winding up, holders of our common stock will be entitled to share ratably in all assets remaining after payment of all debts and other liabilities and any liquidation preference of any outstanding preferred stock.

Our common stock is listed on The Nasdaq Global Select Market under the trading symbol "MGX."

The transfer agent and registrar for our common stock is Computershare Trust Company, N.A.

**Preferred Stock**

Our board of directors has the authority, without further action by our stockholders, to issue up to 10,000,000 shares of preferred stock in one or more series and to fix the rights, preferences, privileges and restrictions thereof. These rights, preferences and privileges could include dividend rights, conversion rights, voting rights, terms of redemption, liquidation preferences, sinking fund terms and the number of shares constituting, or the designation of, such series, any or all of which may be greater than the rights of common stock. The issuance of our preferred stock could adversely affect the voting power of holders of common stock and the likelihood that such holders will receive dividend payments and payments upon our liquidation. In addition, the issuance of preferred stock could have the effect of delaying, deferring or preventing a change in control of our company or other corporate action.

**Registration Rights**

Certain holders of our shares of common stock, are entitled to rights with respect to the registration of these securities under the Securities Act. These rights are provided under the terms of a registration rights agreement between us, certain holders of our common stock. The registration rights agreement includes demand registration rights, short-form registration rights and piggyback registration rights.

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### ***Demand Registration Rights***

Holders of certain of our shares of common stock are entitled to demand registration rights. Under the terms of the registration rights agreement, we will be required, upon the written request of holders of at least a majority of the securities eligible for registration then outstanding, to file a registration statement covering all securities eligible for registration that our stockholders request to be included in such registration. We are required to effect only two registrations pursuant to this provision of the registration rights agreement in any twelve-month period.

### ***Short-Form Registration Rights***

Pursuant to the registration rights agreement, if we are eligible to file a registration statement on Form S-3, upon the written request of securityholders holding at least twenty percent of the securities eligible for registration then outstanding, we will be required to file a Form S-3 registration statement with respect to outstanding securities of such securityholders having an aggregate price to the public of at least \$5 million. We are required to effect only two registrations in any twelve-month period pursuant to this provision of the registration rights agreement. The right to have such shares registered on Form S-3 is further subject to other specified conditions and limitations.

### ***Piggyback Registration Rights***

Pursuant to the registration rights agreement, if we register any of our securities either for our own account or for the account of other security holders, the holders of our common stock party thereto are entitled to include their shares in the registration. Subject to certain exceptions contained in the registration rights agreement, we may limit the number of shares included in the underwritten offering if we determine in good faith, based on consultation with the underwriters, that marketing factors require a limitation of the number of securities to be underwritten.

### ***Indemnification***

The registration rights agreement contains customary cross-indemnification provisions, under which we are obligated to indemnify holders of registrable securities in the event of material misstatements or omissions in the registration statement attributable to us, and they are obligated to indemnify us for material misstatements or omissions attributable to them.

### ***Expiration of Registration Rights***

The demand registration rights, piggyback registration rights, and short form registration rights granted under the registration rights agreement will terminate on the earliest to occur of (a) the third anniversary of our initial public offering or (b) at such time after our initial public offering when the holders' shares may be sold without restriction pursuant to Rule 144 under the Securities Act during any 90 day period.

### ***Anti-Takeover Effects of Delaware Law and Certain Provisions of our Certificate of Incorporation and Amended and Restated Bylaws***

Our certificate of incorporation and bylaws include a number of provisions that may have the effect of delaying, deferring or preventing another party from acquiring control of us and encouraging persons considering unsolicited tender offers or other unilateral takeover proposals to negotiate with our board of directors rather than pursue non-negotiated takeover attempts. These provisions include the items described below.

### ***Board Composition and Filling Vacancies***

Our certificate of incorporation provides for the division of our board of directors into three classes serving staggered three-year terms, with one class being elected each year. Our certificate of incorporation also provides that directors may be removed only for cause and then only by the affirmative vote of the holders of two-thirds or more of the shares then entitled to vote at an election of directors. Furthermore, any vacancy on our board of directors, however occurring, including a vacancy resulting from an increase in the size of our board, may only be filled by the affirmative vote of a majority of our directors then in office even if less than a quorum. The classification of

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directors, together with the limitations on removal of directors and treatment of vacancies, has the effect of making it more difficult for stockholders to change the composition of our board of directors.

#### ***No Written Consent of Stockholders***

Our certificate of incorporation provides that all stockholder actions are required to be taken by a vote of the stockholders at an annual or special meeting, and that stockholders may not take any action by written consent in lieu of a meeting. This limit may lengthen the amount of time required to take stockholder actions and would prevent the amendment of our bylaws or removal of directors by our stockholders without holding a meeting of stockholders.

#### ***Meetings of Stockholders***

Our certificate of incorporation and our bylaws provide that only a majority of the members of our board of directors then in office may call special meetings of stockholders and only those matters set forth in the notice of the special meeting may be considered or acted upon at a special meeting of stockholders. Our bylaws limit the business that may be conducted at an annual meeting of stockholders to those matters properly brought before the meeting.

#### ***Advance Notice Requirements***

Our bylaws establish advance notice procedures with regard to stockholder proposals relating to the nomination of candidates for election as directors or new business to be brought before meetings of our stockholders. These procedures provide that notice of stockholder proposals must be timely given in writing to our corporate secretary prior to the meeting at which the action is to be taken. Generally, to be timely, notice must be received at our principal executive offices not less than 90 days nor more than 120 days prior to the first anniversary date of the annual meeting for the preceding year. Our bylaws specify the requirements as to form and content of all stockholders' notices. These requirements may preclude stockholders from bringing matters before the stockholders at an annual or special meeting.

#### ***Amendment to Certificate of Incorporation and Bylaws***

Any amendment of our certificate of incorporation must first be approved by a majority of our board of directors, and if required by law or our certificate of incorporation, must thereafter be approved by a majority of the outstanding shares entitled to vote on the amendment and a majority of the outstanding shares of each class entitled to vote thereon as a class, except that the amendment of the provisions relating to stockholder action, board composition, limitation of liability and the amendment of our bylaws and certificate of incorporation must be approved by not less than two-thirds of the outstanding shares entitled to vote on the amendment, and not less than two-thirds of the outstanding shares of each class entitled to vote thereon as a class. Our bylaws may be amended by the affirmative vote of a majority of the directors then in office, subject to any limitations set forth in the bylaws; and may also be amended by the affirmative vote of at least two-thirds of the outstanding shares entitled to vote on the amendment, or, if our board of directors recommends that the stockholders approve the amendment, by the affirmative vote of the majority of the outstanding shares entitled to vote on the amendment, in each case voting together as a single class.

#### ***Undesignated Preferred Stock***

Our certificate of incorporation provides for 10,000,000 authorized shares of preferred stock. The existence of authorized but unissued shares of preferred stock may enable our board of directors to discourage an attempt to obtain control of us by means of a merger, tender offer, proxy contest or otherwise. For example, if in the due exercise of its fiduciary obligations, our board of directors were to determine that a takeover proposal is not in the best interests of our stockholders, our board of directors could cause shares of preferred stock to be issued without stockholder approval in one or more private offerings or other transactions that might dilute the voting or other rights of the proposed acquirer or insurgent stockholder or stockholder group. In this regard, our certificate of incorporation will grant our board of directors broad power to establish the rights and preferences of authorized and unissued shares of preferred stock. The issuance of shares of preferred stock could decrease the amount of earnings and assets available for distribution to holders of shares of common stock. The issuance may also adversely affect

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the rights and powers, including voting rights, of these holders and may have the effect of delaying, deterring or preventing a change in control of us.

### **Delaware Anti-Takeover Statute**

We are subject to the provisions of Section 203 of the DGCL. In general, Section 203 prohibits a publicly held Delaware corporation from engaging in a “business combination” with an “interested stockholder” for a three-year period following the time that this stockholder becomes an interested stockholder, unless the business combination is approved in a prescribed manner. Under Section 203, a business combination between a corporation and an interested stockholder is prohibited unless it satisfies one of the following conditions:

- before the stockholder became interested, our board of directors approved either the business combination or the transaction which resulted in the stockholder becoming an interested stockholder;
- upon consummation of the transaction which resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced, excluding for purposes of determining the voting stock outstanding, (i) shares owned by persons who are directors and also officers, and (ii) employee stock plans, in some instances, but not the outstanding voting stock owned by the interested stockholder; or
- at or after the time the stockholder became interested, the business combination was approved by our board of directors and authorized at an annual or special meeting of the stockholders by the affirmative vote of at least two-thirds of the outstanding voting stock which is not owned by the interested stockholder.

Section 203 defines a business combination to include:

- any merger or consolidation involving the corporation and the interested stockholder;
- any sale, transfer, lease, pledge, exchange, mortgage or other disposition involving the interested stockholder of 10% or more of the assets of the corporation;
- subject to exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder; or
- the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits provided by or through the corporation.

In general, Section 203 defines an interested stockholder as any entity or person beneficially owning 15% or more of the outstanding voting stock of the corporation and any entity or person affiliated with or controlling or controlled by the entity or person.

### **Choice of Forum**

Our bylaws provide that, unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware shall be the sole and exclusive forum for any state law claims for (1) any derivative action or proceeding brought on our behalf, (2) any action asserting a claim of breach of a fiduciary duty owed by any of our directors, officers, and employees to us or our stockholders, (3) any action asserting a claim arising pursuant to the Delaware General Corporation Law, our certificate of incorporation or our bylaws (including the interpretation, validity or enforceability thereof), or (4) any action asserting a claim that is governed by the internal affairs doctrine; provided, however, that this provision shall not apply to any causes of action arising under the Securities Act or Exchange Act. In addition, our bylaws provide that, unless we consent in writing to the selection of an alternative forum, the federal district courts of the United States shall be the sole and exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act. Any person or entity purchasing or otherwise acquiring any interest in our securities shall be deemed to have notice of and consented to these forum provisions. These forum provisions may impose additional costs on stockholders, may limit our stockholders’ ability to bring a claim in a forum they find favorable, and the designated courts may reach different judgments or results than other courts. In addition, there is uncertainty as to whether the federal forum provision for Securities Act claims will be enforced, which may impose additional costs on us and our stockholders.

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## TRANSITION AGREEMENT

This Transition Agreement (“Agreement”) is made by and between Brian C. Thomas (“Employee”) and Metagenomi, Inc. (the “Company”) (collectively referred to as the “Parties” or individually referred to as a “Party”).

### RECITALS

WHEREAS, Employee is employed by the Company;

WHEREAS, Employee and the Company entered into an Executive Employment Agreement, dated March 20, 2023 (the “Employment Agreement”) and Employee is a “Covered Executive” under the Company’s Executive Severance and Change in Control Policy (the “Severance Policy”);

WHEREAS, Employee and the Company entered into an Employee Invention Assignment and Confidentiality Agreement, dated September 16, 2016 (the “Confidentiality Agreement”);

WHEREAS, the Employee holds unvested shares of restricted stock of the Company and Company and Employee have entered into Stock Option Agreements and Restricted Stock Unit Agreements subject to the terms and conditions of the Company’s 2024 Stock Option and Incentive Plan (collectively with the documents governing the shares of restricted stock, the “Stock Agreements”);

WHEREAS, Employee plans to voluntarily resign from Employee’s employment with the Company, effective November 6, 2025 (the “Termination Date”);

WHEREAS, Employee’s voluntary resignation from Employee’s employment with the Company is not for Good Reason, as that term is defined in both the Employment Agreement and in the Severance Policy;

WHEREAS, the Parties agree this Agreement fulfills Employee’s Notice of Termination requirement under section 3(f) of the Employment Agreement;

WHEREAS, Employee currently plans to continue to serve on the Company’s Board of Directors (the “Board”), which the Company currently desires;

WHEREAS, as a Board member, Employee will be entitled to receive the standard compensation and equity granted to other similarly situated Board members, during his Board service; and

WHEREAS, the Parties wish to resolve any and all disputes, claims, complaints, grievances, charges, actions, petitions, and demands that Employee may have against the Company and any of the Releasees as defined below, including, but not limited to, any and all claims arising out of or in any way related to Employee’s employment with or separation from the Company.

NOW, THEREFORE, in consideration of the mutual promises made herein, the Company and Employee hereby agree as follows:

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## COVENANTS

1. Recitals. The Recitals set forth above are expressly incorporated into this Agreement.

2. Consideration. Employee acknowledges that without this Agreement, Employee is otherwise not entitled to the consideration described in this section.

a. *Bonus*. The Company shall pay the Employee a pro rata bonus in the amount of \$399,600.00 in a lump sum amount payable within sixty (60) days following the Termination Date. Employee also acknowledges that (i) the termination of his employment does not constitute an involuntary termination without Cause, as that term is defined in the Employment Agreement, and (ii) his voluntary resignation from employment does not give him any rights under the Severance Policy.

b. *Retainer*. The Company agrees to pay Employee a monthly retainer of Fifty-Five Thousand Five Hundred Dollars (\$55,500.00) per month, less applicable withholdings, for three months following the Effective Date. During this period, Employee shall make himself available for consultation at the sole discretion of the Company's Chief Executive Officer.

3. Stock. The Parties agree the number of shares of the Company's common stock that Employee is entitled to purchase from the Company, pursuant to the exercise of outstanding options, will continue to be governed by the terms and conditions of the Company's Stock Agreements. The Company's Stock Agreements also control in the event this provision conflicts with the interpretation of the amount of options vested under those agreements. The ongoing vesting requirements applicable to Employee's restricted stock and restricted stock units shall continue to be governed by the terms and conditions of the Company's Stock Agreements. The Company's Stock Agreements also control in the event this provision conflicts with the interpretation of the amount of restricted stock or restricted stock units vested under those agreements. The Parties agree that the Employee remains in a service relationship with the Company, while he remains on the Board.

EMPLOYEE UNDERSTANDS THAT NEITHER THIS AGREEMENT NOR THE COURSE OF EMPLOYEE'S EMPLOYMENT WITH THE COMPANY, OR ANY OTHER SERVICE TO THE COMPANY, GIVE OR GAVE EMPLOYEE ANY RIGHT, CONTINUING OR OTHERWISE, TO THE REVENUES AND/OR PROFITS OF THE COMPANY AND/OR ANY OTHER RELEASEE (AS DEFINED BELOW) OR ANY OTHER INTEREST, ECONOMIC OR OTHERWISE, IN THE COMPANY AND/OR ANY OTHER RELEASEE (AS DEFINED BELOW).

4. Benefits. Employee's health insurance benefits will cease on the last day of November 2025, subject to Employee's right, if any, to continue Employee's health insurance under COBRA. Employee's participation in all benefits and incidents of employment ceased as of the Termination Date.

5. Payment of Salary and Receipt of All Benefits. Employee acknowledges and represents that, other than the consideration set forth in this Agreement, the Company has paid or provided all salary, wages (including overtime wages if applicable), bonuses, paid time off, premiums, leaves, housing allowances, relocation costs, interest, severance, outplacement costs, fees, reimbursable expenses, commissions, stock, stock options, vesting, and any and all other benefits and compensation due to Employee.

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6. Release of Claims. Employee agrees that the foregoing consideration represents settlement in full of all outstanding obligations owed to Employee by the Company and its current and former officers, directors, employees, agents, investors, attorneys, shareholders, administrators, affiliates, benefit plans, plan administrators, insurers, trustees, divisions, subsidiaries, parents, predecessor and successor corporations and assigns, and professional employer organization or co-employer (collectively, the "Releasees"). Employee, on Employee's own behalf and on behalf of Employee's respective heirs, family members, executors, agents, and assigns, hereby and forever releases the Releasees from, and agrees not to sue concerning, or in any manner to institute, prosecute, or pursue, any claim, complaint, charge, duty, obligation, demand, or cause of action relating to any matters of any kind, whether presently known or unknown, suspected or unsuspected, that Employee may possess against any of the Releasees arising from any omissions, acts, facts, or damages that have occurred up until and including the date Employee signs this Agreement, including, without limitation:

a. any and all claims relating to or arising from Employee's employment relationship with the Company and the termination of that relationship;

b. any and all claims relating to, or arising from, Employee's right to purchase, or actual purchase of shares of stock of the Company, including, without limitation, any claims for fraud, misrepresentation, breach of fiduciary duty, breach of duty under applicable state corporate law, and securities fraud under any state or federal law;

c. any and all claims for wrongful discharge of employment, termination in violation of public policy, discrimination, harassment, retaliation, breach of contract (both express and implied), breach of covenant of good faith and fair dealing (both express and implied), promissory estoppel, fraudulent inducement, negligent or intentional infliction of emotional distress, fraud, negligent or intentional misrepresentation, negligent or intentional interference with contract or prospective economic advantage, unfair business practices, defamation, libel, slander, negligence, personal injury, assault, battery, invasion of privacy, false imprisonment, conversion, and disability benefits;

d. any and all claims for violation of any federal, state, or municipal statute, including, but not limited to, Title VII of the Civil Rights Act of 1964, the Civil Rights Act of 1991, the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, the Equal Pay Act, the Fair Labor Standards Act, the Fair Credit Reporting Act, the Employee Retirement Income Security Act of 1974, the Worker Adjustment and Retraining Notification Act, the Family and Medical Leave Act, the Immigration Control and Reform Act, the National Labor Relations Act, the California Family Rights Act, the California Labor Code, the California Fair Employment and Housing Act, and any other similar statutes, regulations or laws;

e. any and all claims for violation of the federal or any state constitution;

f. any and all claims arising out of any other laws and regulations relating to employment or employment discrimination;

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- g. any claim for any loss, cost, damage, or expense arising out of any dispute over the nonwithholding or other tax treatment of any of the proceeds received by Employee as a result of this Agreement; and
- h. any and all claims for attorneys' fees and costs.

Employee agrees that the release set forth in this section will be and remain in effect in all respects as a complete general release as to the matters released. This release does not extend to any obligations incurred under this Agreement. This release does not release claims that cannot be released as a matter of law.

7. Acknowledgment of Waiver of Claims under ADEA. Employee acknowledges that Employee is waiving and releasing any rights Employee may have under the Age Discrimination in Employment Act of 1967 ("ADEA"), and that this waiver and release is knowing and voluntary. Employee agrees that this waiver and release does not apply to any rights or claims that may arise under the ADEA after the date the Employee signs this Agreement. Employee acknowledges that the consideration given for this waiver and release is in addition to anything of value to which Employee was already entitled. Employee further acknowledges that Employee has been advised by this writing that: (a) Employee should consult with an attorney prior to executing this Agreement; (b) Employee has twenty-one (21) days within which to consider this Agreement; (c) Employee has seven (7) days following Employee's execution of this Agreement to revoke this Agreement; (d) this Agreement will not be effective until after the revocation period has expired; and (e) nothing in this Agreement prevents or precludes Employee from challenging or seeking a determination in good faith of the validity of this waiver under the ADEA, nor does it impose any condition precedent, penalties, or costs for doing so, unless specifically authorized by federal law. In the event Employee signs this Agreement and returns it to the Company in less than the 21-day period identified above, Employee hereby acknowledges that Employee has freely and voluntarily chosen to waive the time period allotted for considering this Agreement. Employee acknowledges and understands that revocation must be accomplished by a written notification to the person executing this Agreement on the Company's behalf that is received prior to the Effective Date. The parties agree that changes, whether material or immaterial, do not restart the running of the 21-day period.

8. Unknown Claims. Employee acknowledges that Employee has been advised to consult with legal counsel and that Employee is familiar with the principle that a general release does not extend to claims that the releaser does not know or suspect to exist in Employee's favor at the time of executing the release, which, if known by Employee, must have materially affected Employee's settlement with the releaser. Employee, being aware of said principle, agrees to expressly waive any rights Employee may have to that effect, as well as under any other statute or common law principles of similar effect.

Specifically, Employee acknowledges that Employee has been advised to consult with legal counsel and is familiar with the provisions of California Civil Code Section 1542, a statute that otherwise prohibits the release of unknown claims, which provides as follows:

A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS THAT THE CREDITOR OR RELEASING PARTY DOES NOT KNOW OR SUSPECT TO EXIST IN HIS OR HER FAVOR AT THE TIME OF EXECUTING THE RELEASE AND THAT, IF KNOWN BY HIM OR HER, WOULD HAVE

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MATERIALLY AFFECTED HIS OR HER SETTLEMENT WITH THE DEBTOR OR RELEASED PARTY.

Employee, being aware of said code section, agrees to expressly waive any rights Employee may have thereunder, as well as under any other statute or common law principles of similar effect.

9. No Pending Lawsuits. Employee represents that Employee has no lawsuits pending in Employee's name against the Company or any of the other Releasees.

10. Trade Secrets and Confidential Information/Company Property. Employee reaffirms and agrees to observe and abide by the terms of the Confidentiality Agreement, specifically including (without limitation) the provisions therein regarding nondisclosure of the Company's trade secrets and confidential and proprietary information; *provided* that Employee understands that nothing in this Agreement, the Employment Agreement, or the Confidentiality Agreement limits Employee's rights under the Protected Disclosures and Other Protected Actions paragraph in this Agreement. Employee hereby acknowledges receipt of the following notice required pursuant to 18 U.S.C. § 1833(b)(1): "An individual shall not be held criminally or civilly liable under any Federal or State trade secret law for the disclosure of a trade secret that (A) is made (i) in confidence to a Federal, State, or local government official, either directly or indirectly, or to an attorney; and (ii) solely for the purpose of reporting or investigating a suspected violation of law; or (B) is made in a complaint or other document filed in a lawsuit or other proceeding, if such filing is made under seal." Employee acknowledges that during the course of Employee's employment with the Company, Employee had access to a number of highly confidential materials, and Employee specifically represents that Employee will refrain from using any such confidential information in the future. Unless provided elsewhere in this Agreement, Employee affirms that Employee has returned all documents and other items provided to Employee by the Company, developed or obtained by Employee in connection with Employee's employment with the Company, or otherwise belonging to the Company. Employee represents that Employee has not misused or disclosed any confidential or proprietary information or trade secrets of the Company to any unauthorized party.

11. No Cooperation. Subject to the Protected Disclosures and Other Protected Actions paragraph, Employee agrees that Employee will not knowingly encourage, counsel, or assist any attorneys or their clients in the presentation or prosecution of any disputes, differences, grievances, claims, charges, or complaints by any third party against any of the Releasees, unless compelled to do so under a subpoena, court order, or upon written request from a governmental entity or as related directly to the ADEA waiver in this Agreement. Employee agrees both to immediately notify the Company upon receipt of any such subpoena, court order, or written request, and to furnish a copy of the foregoing, within three (3) business days of its receipt. Subject to the Protected Disclosures and Other Protected Actions paragraph, if approached by anyone for counsel or assistance in the presentation or prosecution of any disputes, differences, grievances, claims, charges, or complaints against any of the Releasees, Employee will state no more than that Employee cannot provide counsel or assistance.

12. Nondisparagement. Except as otherwise expressly provided herein, including in the Protected Disclosures and Other Protected Actions paragraph in this Agreement, Employee agrees to refrain from any disparagement of any of the Releasees. Employee will direct any inquiries by potential future employers to the Company's human resources function.

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13. Breach. In addition to the rights provided in the “Attorneys’ Fees” section below, Employee acknowledges and agrees that any material breach of this Agreement, unless such breach constitutes a legal action by Employee challenging or seeking a determination in good faith of the validity of the waiver herein under the ADEA, or of any provision of the Confidentiality Agreement or the Employment Agreement will entitle the Company immediately to cease providing the consideration provided to Employee under this Agreement and to obtain damages, except as prohibited by law.

14. No Admission of Liability. Employee understands and acknowledges that with respect to all claims released herein, this Agreement constitutes a compromise and settlement of any and all actual or potential disputed claims by Employee. No action taken by the Company hereto, either previously or in connection with this Agreement, will be deemed or construed to be (a) an admission of the truth or falsity of any actual or potential claims or (b) an acknowledgment or admission by the Company of any fault or liability whatsoever to Employee or to any third party.

15. Costs. The Parties will each bear their own costs, attorneys’ fees, and other fees incurred in connection with the preparation of this Agreement.

16. Tax Consequences. The Company makes no representations or warranties with respect to the tax consequences of the payments and any other consideration provided to Employee or made on Employee’s behalf under the terms of this Agreement. Employee agrees and understands that Employee is responsible for payment, if any, of local, state, and/or federal taxes on the payments and any other consideration provided hereunder by the Company and any penalties or assessments thereon. The Parties agree and acknowledge that the payments made pursuant to the consideration section of this Agreement are not related to sexual harassment or sexual abuse and not intended to fall within the scope of 26 U.S.C. Section 162(q).

17. Section 409A. It is intended that this Agreement comply with, or be exempt from, 26 U.S.C. Section 409A and the final regulations and official guidance thereunder (“Section 409A”) and any ambiguities herein will be interpreted to so comply and/or be exempt from Section 409A. Each payment and benefit to be paid or provided under this Agreement is intended to constitute a series of separate payments for purposes of Section 1.409A-2(b)(2) of the Treasury Regulations. The Company and Employee will work together in good faith to consider either (i) amendments to this Agreement; or (ii) revisions to this Agreement with respect to the payment of any awards, which are necessary or appropriate to avoid imposition of any additional tax or income recognition prior to the actual payment to Employee under Section 409A. In no event will the Releasees reimburse Employee for any taxes that may be imposed on Employee as a result of Section 409A.

18. Authority. The Company represents and warrants that the undersigned has the authority to act on behalf of the Company and to bind the Company and all who may claim through it to the terms and conditions of this Agreement. Employee represents and warrants that Employee has the capacity to act on Employee’s own behalf and on behalf of all who might claim through Employee to bind them to the terms and conditions of this Agreement. Each Party warrants and represents that there are no liens or claims of lien or assignments in law or equity or otherwise of or against any of the claims or causes of action released herein.

19. No Representations. Employee represents that Employee has had an opportunity to consult with an attorney and has carefully read and understands the scope and effect of the provisions

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of this Agreement. Employee has not relied upon any representations or statements made by the Company that are not specifically set forth in this Agreement.

20. Severability. In the event that any provision or any portion of any provision hereof or any surviving agreement made a part hereof becomes or is declared by a court of competent jurisdiction or arbitrator to be illegal, unenforceable, or void, this Agreement will continue in full force and effect without said provision or portion of provision.

21. Attorneys' Fees. Except with regard to a legal action challenging or seeking a determination in good faith of the validity of the waiver herein under the ADEA, in the event that either Party brings an action to enforce or effect its rights under this Agreement, the prevailing Party will be entitled to recover its costs and expenses, including the costs of mediation, arbitration, litigation, court fees, and reasonable attorneys' fees incurred in connection with such an action.

22. Entire Agreement. This Agreement represents the entire agreement and understanding between the Company and Employee concerning the subject matter of this Agreement and Employee's employment with and separation from the Company and the events leading thereto and associated therewith, and supersedes and replaces any and all prior agreements and understandings and communications concerning the subject matter of this Agreement and Employee's relationship with the Company, with the exception of the Confidentiality Agreement, the Stock Agreements, and the terms of the Employment Agreement that apply following the termination of Employee's employment, and the terms of any indemnification agreement entered into between the Company and Employee. Nothing in the Employment Agreement limits Employee's rights as set forth in the Protected Disclosures and Other Protected Actions paragraph of this Agreement.

23. No Oral Modification. This Agreement may only be amended in a writing signed by Employee and a duly-authorized representative of the Company.

24. Governing Law. For the purposes of interpreting and enforcing the contractual terms of this Agreement only, the laws of the State of California will govern, without regard for choice-of-law provisions. Employee consents to personal and exclusive jurisdiction and venue in the State of California for disputes relating to the interpretation or contractual terms of this Agreement.

25. Protected Disclosures and Other Protected Actions. Notwithstanding any other provision of this Agreement, nothing in this Agreement or any other agreement between Employee and the Company, or any Company policy, prevents Employee from: (i) filing and/or pursuing a charge, complaint, or report with any federal, state or local governmental agency or commission (a "Government Agency"), including without limitation, the Equal Employment Opportunity Commission, the National Labor Relations Board or the Securities and Exchange Commission (the "SEC"); (ii) communicating with any Government Agency or otherwise participating in any investigation or proceeding that may be conducted by any Government Agency, including Employee's ability to provide documents or other information, without notice to the Company; (iii) providing truthful testimony in litigation or arbitration; (iv) discussing or disclosing information about sexual harassment, sexual assault, or unlawful acts in the workplace, including harassment, discrimination, retaliation or other conduct Employee has reason to believe is unlawful; and/or (v) exercising any rights Employee may have under Section 7 of the National Labor Relations Act, which are available to non-supervisory employees, including, without limitation, discussing any labor issue, dispute or term or condition of employment as part of engaging in concerted activities for the purpose

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of mutual aid or protection. If Employee files any charge or complaint with any Government Agency and if the Government Agency pursues any claim on Employee's behalf, or if any other third party pursues any claim on Employee's behalf, Employee waives any right to monetary or other individualized relief (either individually, or as part of any collective or class action), except that the Company will not limit any right Employee may have to receive an award pursuant to the whistleblower provisions of any applicable law or regulation for providing information to the SEC or any other Government Agency that may enforce federal securities laws. In connection with the protected disclosures and other protected action mentioned in this paragraph, Employee is permitted to disclose documents or other information as permitted by law, and without giving notice to, or receiving authorization from, the Company. In making any such disclosures or communications, Employee must take all reasonable precautions to prevent any unauthorized use or disclosure of any information that may constitute Company confidential information to any parties other than the relevant government agencies. The protected disclosures and other protected actions mentioned in this paragraph do not include the disclosure of any Company attorney-client privileged communications or attorney work product unless applicable law prohibits such a prohibition.

26. Effective Date. Employee understands that (i) this Agreement will be null and void if not executed by Employee within twenty-one (21) days, and (ii) each Party has seven (7) days after that Party signs this Agreement to revoke it. This Agreement will become effective on the eighth (8th) day after Employee signed this Agreement, so long as it has been signed by the Parties and has not been revoked by either Party before that date (the "Effective Date").

27. Counterparts. This Agreement may be executed in counterparts and by electronic signature, and each counterpart and electronic signature will have the same force and effect as an original and will constitute an effective, binding agreement on the part of each of the undersigned.

28. Acknowledgements; Voluntary Execution of Agreement. Employee understands and agrees that Employee executed this Agreement voluntarily, without any duress or undue influence on the part or behalf of the Company or any third party, with the full intent of releasing all of Employee's claims against the Company and any of the other Releasees. Employee acknowledges that: (a) Employee has read this Agreement; (b) Employee has the right to consult an attorney regarding this Agreement, and has been represented in the preparation, negotiation, and execution of this Agreement by legal counsel of Employee's own choice or has voluntarily elected not to retain legal counsel; (c) Employee has been provided with a reasonable time period to consult with an attorney and consider this Agreement, and if Employee signs and returns a copy of this Agreement in less than the time allotted, Employee acknowledges that Employee has knowingly, voluntarily and without any inducement by the Company, chosen to waive such time period allotted for considering this Agreement; (d) Employee understands the terms and consequences of this Agreement and of the releases it contains; and; (e) Employee is fully aware of the legal and binding effect of this Agreement.

*[Remainder of Page Left Intentionally Blank]*

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IN WITNESS WHEREOF, the Parties have executed this Agreement on the respective dates set forth below.

**Brian C. Thomas**, an individual

Dated: 06 November 2025 /s/Brian C. Thomas  
Brian C. Thomas

**Metagenomi, Inc.**

Dated: 06 November 2025 /s/Pamela Wapnick  
Pamela Wapnick, Chief Financial Officer

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**EXECUTIVE EMPLOYMENT AGREEMENT**

This Executive Employment Agreement (the “Agreement”) is entered into as of the 6th day of November, 2025 (the “Effective Date”) by and between Jian Irish, MBA, PhD (the “Executive”) and Metagenomi, Inc. (the “Company”). The Executive and the Company are collectively referred to as the “Parties”. This Agreement shall be effective as of the Effective Date.

**RECITALS**

**WHEREAS**, the Company desires to continue to employ the Executive and the Executive desires to continue to be employed by the Company under the terms and conditions contained herein.

**NOW, THEREFORE**, in consideration of the mutual covenants and agreements herein contained and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

1. Employment.

(a) Term. The Company hereby employs the Executive, and the Executive hereby accepts such employment, on the terms set forth herein commencing as of the Effective Date and continuing until this Agreement is terminated in accordance with the provisions of Section 3 hereof (the “Term”). The Executive’s employment with the Company shall be “at-will,” meaning that the Executive’s employment may be terminated by the Company or Executive at any time and for any reason, subject to the terms of this Agreement, including but not limited to, Sections 3 and 4.

(b) Position and Duties. During the Term, the Executive shall serve as the Chief Executive Officer and President of the Company and shall have such powers and duties as may from time to time be prescribed by the Board of Directors of the Company (the “Board”). In addition, the Executive shall serve as a member of the Board for so long as the Executive remains the CEO of the Company, subject to any required stockholder vote, provided that the Executive shall be deemed to have resigned from the Board and from any related positions upon ceasing to serve as CEO for any reason. The Executive shall devote the Executive’s full working time and efforts to the business and affairs of the Company. Notwithstanding the foregoing, the Executive may engage in appropriate service on approved boards of directors as long as such services are approved in advance by the Board in writing, and do not (i) create a conflict of interest or (ii) materially interfere with the Executive’s obligations or performance of the Executive’s duties to the Company. Executive may not engage in activities that (i) create a conflict of interest or (ii) materially, negatively interfere with the Executive’s obligations or performance of the Executive’s duties to the Company. The Executive’s current outside board service activities are disclosed on Exhibit A, to be updated from time to time. Any compensation received by the Executive for outside board service or other outside activities shall belong solely to the Executive, and the Company will have no right to such compensation.

(c) Location. Executive’s position is a remote job. Executive will generally work remotely from California. Executive will obtain the Company’s permission before working

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regularly from a different state. If the Company requires Executive to travel to a location for work other than Executive's remote working space, the Company will reimburse Executive for the reasonable costs of such travel in accordance with the Company's expense reimbursement policy.

## 2. Compensation and Related Matters.

(a) Base Salary. Effective November 6, 2025, the Executive's annual base salary shall be six hundred seventy thousand dollars (\$670,000), subject to applicable withholdings and deductions, and prorated for any partial year of employment. The base salary shall be evaluated periodically by the Board or the Compensation Committee of the Board (the "Compensation Committee"). The base salary in effect at any given time is referred to herein as "Base Salary". The Base Salary shall be payable in a manner that is consistent with the Company's usual payroll practices for senior executives.

(b) Incentive Compensation. During the Term, the Executive shall be eligible to receive an annual cash bonus as determined by the Board or the Compensation Committee from time to time. The Executive's target annual bonus shall be sixty percent (60%) of Executive's Base Salary (the "Target Bonus"). The actual amount of the annual bonus, if any, shall be determined in the sole discretion of the Board or the Compensation Committee, subject to the performance of the Executive and the Company in accordance with performance goals established by the Company and the terms of any applicable incentive compensation plan that may be in effect from time to time. The Executive must be employed by the Company on the day such bonus is paid in order to earn or receive any annual bonus. The annual bonus, if any, shall be paid within thirty (30) days following the completion of the Company's annual financial audit for the fiscal year to which such bonus relates and the Company's receipt of an unqualified audit opinion for such audit.

(c) Equity. The Executive will be eligible to receive awards of stock options, restricted stock, or other equity awards (each, an "Award") pursuant to any plans or arrangements the Company may have in effect from time to time. The Board or Compensation Committee, as applicable, will determine in its discretion whether Executive will be granted an Award and the terms of such Award. Any Award will be subject to the terms and conditions of an agreement to be provided to the Executive, and the Company's applicable equity incentive plan or arrangement as in effect and amended from time to time (each, an "Equity Incentive Plan").

(d) Employee Benefits. During the Term, the Executive will be eligible to participate in the Company's employee benefit plans and programs in effect from time to time for senior executives of the Company, subject to the terms and eligibility requirements of such plans and programs.

(e) Expenses. The Executive shall be eligible to receive reimbursement for all reasonable and documented business expenses incurred by the Executive during the Term in performing services hereunder, in accordance with the policies and procedures then in effect and established by the Company.

(f) Paid Time Off. During the Term, the Executive shall be entitled to paid time off in accordance with Company policy as in effect from time to time.

3. Termination. During the Term, the Executive's employment hereunder may be terminated without any breach of this Agreement under the following circumstances:

(a) Death. The Executive's employment hereunder shall terminate upon the Executive's death, and the Executive or the Executive's estate will be eligible to receive death benefits in accordance with the Company's plans, programs, and practices as may be in effect at such time (if any). In addition, so long as Executive's estate signs a general release of all claims in favor of the Company (the "General Release") in the time period set by the Company (but in no event later than sixty (60) days following the date of Executive's death), then (i) Executive's estate will be eligible to receive a Pro-Rated Bonus payable within sixty (60) days following the date of death and (ii) one hundred percent (100%) of Executive's Time-Based Equity Awards (as defined below) shall immediately vest on the Accelerated Vesting Date (as defined below); provided that, in order to effectuate the accelerated vesting contemplated by this subsection, the unvested portion of the Time-Based Equity Awards that would otherwise terminate or be forfeited on the Date of Termination will be delayed until the earlier of (A) the effective date of the General Release (at which time acceleration will occur) or (B) the date that the General Release can no longer become fully effective (at which time the unvested portion of the Executive's Time-Based Equity Awards will terminate or be forfeited). Notwithstanding the foregoing, no additional vesting of the Time-Based Equity Awards shall occur during the period between the Date of Termination and the Accelerated Vesting Date.

(b) Disability. The Company may terminate the Executive's employment if the Executive is disabled and unable to perform or expected to be unable to perform the essential functions of the Executive's then-existing position or positions under this Agreement with or without reasonable accommodation for a period of one hundred eighty (180) days (which need not be consecutive) in any twelve (12)-month period. Upon such termination, the Executive will be eligible to receive disability benefits in accordance with the Company's plans, programs, and practices as may be in effect at such time (if any). If any question shall arise as to whether during any period the Executive is disabled so as to be unable to perform the essential functions of the Executive's then existing position or positions with or without reasonable accommodation, the Executive may, and at the request of the Company shall, submit to the Company a certification in reasonable detail by a physician selected by the Company to whom the Executive or the Executive's guardian has no reasonable objection as to whether the Executive is so disabled or how long such disability is expected to continue, and such certification shall for the purposes of this Agreement be conclusive of the issue. The Executive shall cooperate with any reasonable request of the physician in connection with such certification. If such question shall arise and the Executive shall fail to submit such certification, the Company's determination of such issue shall be binding on the Executive. Nothing in this Section 3(b) shall be construed to waive the Executive's rights, if any, under existing law including, without limitation, the Family and Medical Leave Act of 1993, 29 U.S.C. §2601 et seq., the Americans with Disabilities Act, 42 U.S.C. §12101 et seq., the California Family Rights Act, and the California Fair Employment and Housing Act. If the Company terminates Executive's employment under this paragraph, and Executive signs the General Release and it becomes irrevocable and fully effective within sixty (60) days after the Date of Termination, then (i) the Company will pay Executive a Pro-rated

Bonus within sixty (60) days following the Date of Termination and (ii) one hundred percent (100%) of Executive's Time-Based Equity Awards (as defined below) shall immediately vest on the Accelerated Vesting Date (as defined below); provided that, in order to effectuate the accelerated vesting contemplated by this subsection, the unvested portion of the Time-Based Equity Awards that would otherwise terminate or be forfeited on the Date of Termination will be delayed until the earlier of (A) the effective date of the General Release (at which time acceleration will occur) or (B) the date that the General Release can no longer become fully effective (at which time the unvested portion of the Executive's Time-Based Equity Awards will terminate or be forfeited). Notwithstanding the foregoing, no additional vesting of the Time-Based Equity Awards shall occur during the period between the Date of Termination and the Accelerated Vesting Date.

(c) Termination by Company for Cause. The Company may terminate the Executive's employment hereunder for Cause. For purposes of this Agreement, "Cause" shall mean any of the following: (i) Executive's commission of any act of fraud, embezzlement, dishonesty or other act involving moral turpitude, (ii) Executive's commission of a felony under the laws of the United States or any state thereof or any foreign jurisdiction, (iii) Executive's continued failure to perform lawfully assigned duties for thirty (30) days after receiving written notification from the Board, (iv) Executive's unauthorized use or disclosure of confidential information or trade secrets of the Company or any of its affiliates or other violation of any material Company written policy or breach of any of Executive's written agreements with the Company or any of its affiliates relating to employment, non-competition, non-solicitation, nondisclosure, and/or assignment of inventions, (v) Executive's failure to cooperate with a bona fide internal investigation or an investigation by regulatory or law enforcement authorities, after being instructed by the Company to cooperate, or the willful destruction or failure to preserve documents or other materials known to be relevant to such investigation or the inducement of others to fail to cooperate or to produce documents or other materials in connection with such investigation, or (vi) any other misconduct or gross negligence by Executive that adversely affects the business of the Company in a material manner. Cause shall be determined by the Board in its discretion, and such determination shall be conclusive and binding. If the Board determines Cause exists and the Executive resigns before a termination for Cause is effectuated, the Board may treat such termination as by the Company for Cause.

(d) Termination by Company Without Cause. The Company may terminate the Executive's employment hereunder at any time without Cause. Any termination by the Company of the Executive's employment under this Agreement which does not constitute a termination for Cause under Section 3(c) and does not result from the death or disability of the Executive under Section 3(a) or (b) shall be deemed a termination without Cause.

(e) Termination by the Executive. The Executive may terminate the Executive's employment hereunder at any time for any reason, including but not limited to, for Good Reason. "Good Reason" means that the Executive resigns from employment within ninety (90) days after any of the following is undertaken by the Company (or its acquirer) without the Executive's consent: (i) a reduction in Executive's title, (ii) a material reduction of Executive's duties, authority or responsibilities, (iii) any material reduction of Executive's Base Salary (other than a proportionate reduction in Executive's Base Salary that affects all senior management of the Company); (iv) a material change in the geographic location at which Executive must

perform services; provided that in no instance will the relocation of Executive to a facility or location of thirty-five (35) miles or less from Executive's then current office location be deemed material for purposes of this Agreement; or (v) the Company's material breach of this Agreement or any equity award agreement by the Company; provided, however, that Good Reason shall not exist unless Executive has provided written notice to the Board of the purported grounds for the Good Reason within sixty (60) days of its initial existence and the Company has not remedied the condition after having been provided at least thirty (30) days to remedy the condition.

(f) Notice of Termination. Except for termination due to the Executive's death as specified in Section 3(a), any termination of the Executive's employment by the Company or any such termination by the Executive shall be communicated by written Notice of Termination to the other party hereto. If Executive terminates employment with the Company without Good Reason, Executive shall provide thirty (30) days' notice to the Company, and the Company shall have the option to accelerate the notice period and pay Executive in lieu of the remainder of the thirty (30)-day notice period.

(g) Date of Termination. For the purposes of this Agreement, "Date of Termination" shall mean: (i) if the Executive's employment is terminated by death, the date of Executive's death; (ii) if the Executive's employment is terminated for any reason other than death, the date that the Executive's employment with the Company terminates.

(h) Resignation of All Other Positions. Upon termination of employment for any reason, unless otherwise agreed in writing, the Executive shall be deemed to have resigned from all officer and board member positions (if applicable) that the Executive holds with the Company or any of its subsidiaries and affiliates. The Executive shall execute any documents in reasonable form as may be requested to confirm or effectuate any such resignations.

#### 4. Compensation Upon Termination.

(a) Accrued Obligations. If the Executive's employment with the Company is terminated for any reason, the Company shall pay or provide to the Executive (or to the Executive's authorized representative or estate) (i) any Base Salary earned through the Date of Termination; (ii) unpaid expense reimbursements (subject to, and in accordance with, Section 2(e) of this Agreement); (iii) any accrued but unused vacation, and (iv) any vested benefits the Executive may have under any employee benefit plan of the Company through the Date of Termination, which vested benefits shall be paid and/or provided in accordance with the terms of such employee benefit plans (collectively, the "Accrued Obligations").

(b) Severance Upon Termination by the Company without Cause or by the Executive for Good Reason Outside of the Change in Control Period. During the Term, if the Executive's employment is terminated by the Company without Cause or the Executive terminates employment for Good Reason, in each case outside of the Change in Control Period, then in addition to the Accrued Obligations, subject to the Executive (i) resigning from all positions, (ii) signing the General Release (including a re-affirmation of any continuing obligations and restrictive covenants) in a form and manner satisfactory to the Company, (iii) the General Release becoming irrevocable and fully effective, all within sixty (60) days after the Date of Termination, and (iv) the Executive not breaching any of the post-employment covenants

and contractual obligations to the Company, the Company shall provide the Executive the following payments and benefits (the “Severance Benefits”):

A. the Company shall pay the Executive a lump sum amount equal to twelve (12) months of the Executive’s then current Base Salary (the “Severance Pay”), payable within sixty (60) days following the Date of Termination;

B. the Company shall pay the Executive a bonus in the amount of 1.0 times Executive’s target bonus, in a lump sum amount payable within sixty (60) days following the Date of Termination; and

C. if the Executive and Executive’s eligible dependents were participating in the Company’s group health plan immediately prior to the Date of Termination and timely elects continued group health coverage pursuant to the Consolidated Omnibus Budget Reconciliation Act of 1985, as amended (“COBRA”), then the Company shall pay to the Executive a monthly cash payment for twelve (12) months in an amount equal to Executive’s and Executive’s eligible dependents monthly COBRA premium, subject to tax-related deductions and withholdings and payable in accordance with the Company’s regular payroll schedule.

(c) Severance Upon Termination by the Company without Cause or by the Executive for Good Reason during the Change in Control Period. During the Term, if the Executive’s employment is terminated by the Company without Cause or the Executive terminates employment for Good Reason, in each case during the Change in Control Period, then in addition to the Accrued Obligations, subject to the Executive (i) resigning from all positions, (ii) signing the General Release, (iii) the General Release becoming irrevocable and fully effective, all within sixty (60) days after the Date of Termination, and (iv) the Executive not breaching any of the post-employment covenants and contractual obligations to the Company, the Company shall provide the Executive the following payments and benefits (the “Change in Control Severance Benefits”):

A. the Company shall pay the Executive a lump sum amount equal to eighteen (18) months of the Executive’s then current Base Salary (the “Enhanced Severance Pay”), payable within sixty (60) days following the Date of Termination;

B. the Company shall pay the Executive a bonus in the amount of 1.5 times Executive’s target bonus, in a lump sum amount payable within sixty (60) days following the Date of Termination;

C. if the Executive and Executive’s eligible dependents were participating in the Company’s group health plan immediately prior to the Date of Termination and timely elects continued group health coverage pursuant to COBRA, then the Company shall pay to the Executive a monthly cash payment for eighteen (18) months in an amount equal to Executive’s and Executive’s eligible dependents monthly

COBRA premium, subject to tax-related deductions and withholdings and payable in accordance with the Company's regular payroll schedule; and

D. notwithstanding anything to the contrary in any applicable Award agreement or Equity Incentive Plan, one hundred percent (100%) of Executive's then-outstanding and unvested Awards that are subject solely to time-based vesting (the "Time-Based Equity Awards") shall become fully vested and exercisable or nonforfeitable on the later of (i) the Date of Termination or the date of the Change in Control, as applicable or (ii) the effective date of the General Release (the "Accelerated Vesting Date"); provided that, in order to effectuate the accelerated vesting contemplated by this subsection, the unvested portion of the Time-Based Equity Awards that would otherwise terminate or be forfeited on the Date of Termination will be delayed until the earlier of (A) the date on which both a Change in Control and the effective date of the General Release has occurred (at which time acceleration will occur), (B) the date that the General Release can no longer become fully effective (at which time the unvested portion of the Executive's Time-Based Equity Awards will terminate or be forfeited) or (C) if the Date of Termination occurred prior to a Change in Control and no Change in Control has occurred, the date that is two months and one day after the Date of Termination (at which time the unvested portion of the Executive's Time-Based Equity Awards will terminate or be forfeited). Notwithstanding the foregoing, no additional vesting of the Time-Based Equity Awards shall occur during the period between the Date of Termination and the Accelerated Vesting Date.

(d) Avoidance of Doubt. For the avoidance of doubt, in no case will the Executive be eligible for benefits under both Section 4(b) and Section 4(c). If the Company has commenced providing severance pay and benefits to Executive under Section 4(b) prior to the date that Executive becomes eligible to receive severance pay and benefits under Section 4(c), the severance pay and benefits previously provided to Executive under Section 4(b) shall reduce the severance pay and benefits to be provided under Section 4(c).

(e) Benefits Upon Qualified Retirement. Upon Executive's Qualified Retirement, provided Executive signs the General Release and it becomes irrevocable and fully effective within sixty (60) days after the Date of Termination, then (i) the Company will pay the Executive the Pro-rated Bonus within sixty (60) days following the Date of Termination and (ii) one hundred percent (100%) of Executive's Time-Based Equity Awards shall immediately vest on the Accelerated Vesting Date; provided that, in order to effectuate the accelerated vesting contemplated by this subsection, the unvested portion of the Time-Based Equity Awards that would otherwise terminate or be forfeited on the Date of Termination will be delayed until the earlier of (A) the effective date of the General Release (at which time acceleration will occur) or (B) the date that the General Release can no longer become fully effective (at which time the unvested portion of the Executive's Time-Based Equity Awards will terminate or be forfeited). Notwithstanding the foregoing, no additional vesting of the Time-Based Equity Awards shall occur during the period between the Date of Termination and the Accelerated Vesting Date. For purposes of this Agreement, "Qualified Retirement" shall mean a termination of employment by an Executive without Good Reason if, on the Date of Termination (i) Executive is at least

fifty-five (55) years old and the sum of Executive's age and years of service to the Company equals sixty-five (65) years or more and (ii) Executive has provided at least one (1) year notice prior to the Date of Termination.

(f) The Company shall provide the applicable severance benefits under Section 4(b), Section 4(c) or Section 4(e) starting within sixty (60) days after the Date of Termination; provided, however, that if the sixty (60)-day period begins in one calendar year and ends in a second calendar year, such severance benefits shall begin to be paid in the second calendar year by the last day of such sixty (60)-day period. Each payment pursuant to this Agreement is intended to constitute a separate payment for purposes of Treasury Regulation Section 1.409A-2(b)(2).

(g) The amounts payable and benefits provided to Executive on or following the Date of Termination pursuant to this Section 4 shall be in full and complete satisfaction of Executive's rights under this Agreement and any other claims for additional compensation that Executive may have in respect of Executive's employment with the Company or any of its subsidiaries. The receipt of any severance payments or benefits pursuant to Section 4 shall be subject to Executive not violating any of Executive's post-employment contractual obligations, including Executive's non-solicitation and non-disclosure obligations referenced in this Agreement or in any other agreement between the Parties. In the event Executive breaches any of Executive's post-employment obligations, in addition to all other legal and equitable remedies, the Company shall have the right to terminate or suspend all continuing payments and benefits to which the Executive may otherwise be entitled pursuant to Section 4 and shall be permitted to recover any severance payments or benefits provided, without affecting the Executive's release or Executive's obligations under the General Release.

(h) For purposes of this Agreement, "Change in Control" means the occurrence of any of the following events: (i) any "person" (as such term is used in Sections 13(d) and 14(d) of the Securities Exchange Act of 1934, as amended) becomes the "beneficial owner" (as defined in Rule 13d-3 under said Act), directly or indirectly, of securities of the Company representing fifty percent (50%) or more of the total voting power represented by the Company's then outstanding voting securities; (ii) the consummation of a merger or consolidation of the Company with any other corporation, other than a merger or consolidation which would result in the voting securities of the Company outstanding immediately prior thereto continuing to represent (either by remaining outstanding or by being converted into voting securities of the surviving entity) at least fifty percent (50%) of the total voting power represented by the voting securities of the Company or such surviving entity outstanding immediately after such merger or consolidation; or (iii) the consummation of the sale, lease or other disposition by the Company of all or substantially all the Company's assets. "Change in Control Period" means the period beginning on the date two (2) months prior to, and ending on the date that is twelve (12) months following, a Change in Control.

(i) Section 280G. Anything in this Agreement to the contrary notwithstanding, in the event that the amount of any compensation, payment or distribution by the Company to or for the benefit of the Executive, whether paid or payable or distributed or distributable pursuant to the terms of this Agreement or otherwise, calculated in a manner consistent with Section 280G of the Code, and the applicable regulations thereunder (the

“Aggregate Payments”), would be subject to the excise tax imposed by Section 4999 of the Code, then the Aggregate Payments shall be reduced (but not below zero) so that the sum of all of the Aggregate Payments shall be \$1.00 less than the amount at which the Executive becomes subject to the excise tax imposed by Section 4999 of the Code; *provided* that such reduction shall only occur if it would result in the Executive receiving a higher After Tax Amount (as defined below) than the Executive would receive if the Aggregate Payments were not subject to such reduction. In such event, the Aggregate Payments shall be reduced in the following order, in each case, in reverse chronological order beginning with the Aggregate Payments that are to be paid the furthest in time from consummation of the transaction that is subject to Section 280G of the Code: (1) cash payments not subject to Section 409A of the Code; (2) cash payments subject to Section 409A of the Code; (3) equity-based payments and acceleration; and (4) non-cash forms of benefits; *provided* that in the case of all the foregoing Aggregate Payments all amounts or payments that are not subject to calculation under Treas. Reg. §1.280G-1, Q&A-24(b) or (c) shall be reduced before any amounts that are subject to calculation under Treas. Reg. §1.280G-1, Q&A-24(b) or (c). For purposes of this Section 4(i), the “After Tax Amount” means the amount of the Aggregate Payments less all federal, state, and local income, excise and employment taxes imposed on the Executive as a result of the Executive’s receipt of the Aggregate Payments. For purposes of determining the After Tax Amount, the Executive shall be deemed to pay federal income taxes at the highest marginal rate of federal income taxation applicable to individuals for the calendar year in which the determination is to be made, and state and local income taxes at the highest marginal rates of individual taxation in each applicable state and locality, net of the maximum reduction in federal income taxes that could be obtained from deduction of such state and local taxes. The determination as to whether a reduction in the Aggregate Payments shall be made pursuant to this Section 4(i) shall be made by a nationally recognized accounting firm selected by the Company (the “Accounting Firm”), which shall provide detailed supporting calculations both to the Company and the Executive within 15 business days of the Date of Termination, if applicable, or at such earlier time as is reasonably requested by the Company or the Executive. Any determination by the Accounting Firm shall be binding upon the Company and the Executive.

#### 5. Section 409A.

(a) Anything in this Agreement to the contrary notwithstanding, if at the time of the Executive’s separation from service within the meaning of Section 409A of the Code, the Company determines that the Executive is a “specified employee” within the meaning of Section 409A(a)(2)(B)(i) of the Code, then to the extent any payment or benefit that the Executive becomes entitled to under this Agreement or otherwise on account of the Executive’s separation from service would be considered deferred compensation otherwise subject to the twenty percent (20%) additional tax imposed pursuant to Section 409A(a) of the Code as a result of the application of Section 409A(a)(2)(B)(i) of the Code, such payment shall not be payable and such benefit shall not be provided until the date that is the earlier of (A) six (6) months and one (1) day after the Executive’s separation from service, or (B) the Executive’s death. If any such delayed cash payment is otherwise payable on an installment basis, the first payment shall include a catch-up payment covering amounts that would otherwise have been paid during the six (6)-month period but for the application of this provision, and the balance of the installments shall be payable in accordance with their original schedule.

(b) All in-kind benefits provided and expenses eligible for reimbursement under this Agreement shall be provided by the Company or incurred by the Executive during the time periods set forth in this Agreement. All reimbursements shall be paid as soon as administratively practicable, but in no event shall any reimbursement be paid after the last day of the taxable year following the taxable year in which the expense was incurred. The amount of in-kind benefits provided or reimbursable expenses incurred in one taxable year shall not affect the in-kind benefits to be provided or the expenses eligible for reimbursement in any other taxable year (except for any lifetime or other aggregate limitation applicable to medical expenses). Such right to reimbursement or in-kind benefits is not subject to liquidation or exchange for another benefit.

(c) To the extent that any payment or benefit described in this Agreement constitutes “non-qualified deferred compensation” under Section 409A of the Code, and to the extent that such payment or benefit is payable upon the Executive’s termination of employment, then such payments or benefits shall be payable only upon the Executive’s “separation from service.” The determination of whether and when a separation from service has occurred shall be made in accordance with the presumptions set forth in Treasury Regulation Section 1.409A-1(h).

(d) The Parties intend that this Agreement will be administered in accordance with Section 409A of the Code. To the extent that any provision of this Agreement is ambiguous as to its compliance with Section 409A of the Code, the provision shall be read in such a manner so that all payments hereunder comply with Section 409A of the Code. Each payment pursuant to this Agreement is intended to constitute a separate payment for purposes of Treasury Regulation Section 1.409A-2(b)(2). The Parties agree that this Agreement may be amended, as reasonably requested by either party, and as may be necessary to fully comply with Section 409A of the Code and all related rules and regulations in order to preserve the payments and benefits provided hereunder without additional cost to either party.

(e) The Company makes no representation or warranty and shall have no liability to the Executive or any other person if any provisions of this Agreement are determined to constitute deferred compensation subject to Section 409A of the Code but do not satisfy an exemption from, or the conditions of, such Section.

#### 6. Restrictive Covenants.

(a) The Executive hereby re-affirms the Employee Invention Assignment and Confidentiality Agreement that the Executive signed on January 25, 2021 and that is attached hereto as Exhibit B (the “Restrictive Covenant Agreement”), and the Restrictive Covenant Agreement is hereby incorporated as a material term of this Section and this Agreement.

(b) Protected Disclosures. For the avoidance of doubt, the Executive understands that pursuant to the federal Defend Trade Secrets Act of 2016, the Executive shall not be held criminally or civilly liable under any federal or state trade secret law for the disclosure of a trade secret that (A) is made (i) in confidence to a federal, state, or local government official, either directly or indirectly, or to an attorney; and (ii) solely for the purpose of reporting or investigating a suspected violation of law; or (B) is made in a complaint or other document filed in a lawsuit or other proceeding, if such filing is made under seal. The Executive

further understands that nothing contained in this Agreement or the Restrictive Covenant Agreement limits the Executive's ability to (A) file a charge or complaint with any federal, state or local governmental agency or commission (a "Government Agency"), including without limitation, the Equal Employment Opportunity Commission, the National Labor Relations Board or the Securities and Exchange Commission (the "SEC"), (B) communicate with any Government Agency or otherwise participate in any investigation or proceeding that may be conducted by any Government Agency, including to provide documents or other information, without notice to the Company, (C) share compensation information concerning the Executive or others, except that this does not permit the Executive to disclose compensation information concerning others that the Executive has obtained because the Executive's job responsibilities require or allow access to such information, or (D) discuss or disclose information about unlawful acts in the workplace, such as harassment or discrimination or any other conduct that the Executive has reason to believe is unlawful, or (E) testify truthfully in any legal proceeding. Any such communications and disclosures must be consistent with applicable law and the information disclosed must not have been obtained through a communication that was subject to the attorney-client privilege (unless disclosure of that information would otherwise be permitted consistent with such privilege or applicable law).

(c) Litigation and Regulatory Cooperation. During and after the Executive's employment, the Executive shall cooperate fully with the Company in the defense or prosecution of any claims or actions now in existence or which may be brought in the future against or on behalf of the Company which relate to events or occurrences that transpired while the Executive was employed by the Company. The Executive's full cooperation in connection with such claims or actions shall include, but not be limited to, being available to meet with counsel to prepare for discovery or trial and to act as a witness on behalf of the Company at mutually convenient times. During and after the Executive's employment, the Executive also shall cooperate fully with the Company in connection with any investigation or review of any federal, state or local regulatory authority as any such investigation or review relates to events or occurrences that transpired while the Executive was employed by the Company. The Company shall reimburse the Executive for any reasonable out-of-pocket expenses incurred in connection with the Executive's performance of obligations pursuant to this Section.

7. Third-Party Agreements and Rights. The Executive represents to the Company that the Executive's execution of this Agreement, the Executive's employment with the Company and the performance of the Executive's duties for the Company as contemplated under this Agreement will not violate any obligations the Executive may have to any other party. In the Executive's work for the Company, the Executive will not disclose or make use of any information in violation of any agreements with or rights of any such other party, and the Executive will not bring to the premises of the Company any copies or other tangible embodiments of non-public information belonging to or obtained from any such other party.

8. Severability. If any provision of this Agreement, or any part thereof, is held by a court, arbitrator or other authority of competent jurisdiction to be invalid or unenforceable, the parties agree that the court, arbitrator or authority making such determination will have the power to and shall, reduce the duration or scope of such provision or to delete specific words or phrases as necessary (but only to the minimum extent necessary) to cause such provision or part and the remainder of this Agreement to be valid and enforceable to the fullest extent permitted

by applicable law. If such court, arbitrator or authority does not have the legal authority to take the actions described in the preceding sentence, the parties agree to negotiate in good faith a modified provision that would, in so far as possible, reflect the original intent of this Agreement without violating applicable law.

9. Remedies. The Executive acknowledges that the restrictions contained in this Agreement are reasonable and necessary to protect the Company's legitimate business interests and that any violation of the provisions contained herein would result in irreparable injury to the Company and that monetary damages may not be sufficient to compensate the Company for any economic loss which may be incurred by reason of breach of the restrictions contained herein. In the event of a breach or a threatened breach by the Executive of any provision contained herein, the Company shall be entitled to a temporary restraining order and injunctive relief restraining the Executive from the commission of any breach, shall not be required to provide any bond or other security in connection with obtaining any such equitable remedy and shall be entitled to recover the Company's reasonable attorneys' fees, costs and expenses related to the breach or threatened breach. Nothing contained in this Section shall be construed as prohibiting the Company from pursuing any other remedies available to it for any breach or threatened breach, including, without limitation, the recovery of money damages. In the event of a breach by Executive of any covenants contained herein, the term of such covenant shall be tolled until such breach has been duly cured.

10. Withholding. All payments made by the Company to the Executive under this Agreement shall be net of any tax or other amounts required to be withheld or deducted by the Company under applicable law.

11. Survival. The provisions of this Agreement and any other confidentiality, invention assignment, or other post-termination restrictive covenant obligations of the Executive to the Company shall survive the termination of this Agreement and/or the termination of the Executive's employment to the extent necessary to effectuate the terms contained herein.

12. Waiver. No waiver of any provision hereof shall be effective unless made in writing and signed by the waiving party. The failure of any party to require the performance of any term or obligation of this Agreement, or the waiver by any party of any breach of this Agreement, shall not prevent any subsequent enforcement of such term or obligation or be deemed a waiver of any subsequent breach.

13. Notices. Any notices, requests, demands and other communications provided for by this Agreement shall be sufficient if in writing and (a) delivered in person, (b) sent by a nationally recognized overnight courier service or by registered or certified mail, postage prepaid, return receipt requested, or (c) sent by electronic mail, to the Executive at the last mailing address or e-mail address, as applicable, the Executive has filed in writing with the Company or, in the case of the Company, at its main offices, attention of the Board, with a copy to legal@metagenomi.co.

14. Amendment. This Agreement may be amended or modified only by a written instrument signed by the Executive and by a duly authorized representative of the Company.

15. Governing Law. This Agreement shall be construed under and be governed in all respects by the laws of the State of California, without giving effect to the conflict of laws principles of such state.

16. Assignment; Successor to Company. Neither the Company nor the Executive may make any assignment of this Agreement or any interest herein, by operation of law or otherwise, without the prior written consent of the other party. Notwithstanding the foregoing, the Company may assign its rights under this Agreement, without any consent of the Executive, to any of the Company's affiliates or successors (including if the Company effects a reorganization, consolidates with or merges into any other corporation, limited liability company, partnership, organization or other entity, or transfers all or substantially all of its properties or assets to any other corporation, limited liability company, partnership, organization or other entity), in which case all references to the "Company" shall be deemed to mean the assignee or a designated affiliate of the assignee. This Agreement shall inure to the benefit of and be binding upon the Company and the Executive, and their respective successors, executors, administrators, heirs and permitted assigns.

17. No Third-Party Beneficiaries. This Agreement is intended solely for the benefit of the parties and the Company's respective successors and permitted assigns and shall not confer upon any other person any remedy, claim, liability, reimbursement, or other right. The Agreement is not intended and shall not be construed to create any third-party beneficiaries or to provide to any third parties with any remedy, claim, liability, reimbursement, cause of action, or other right or privilege.

18. Integration. This Agreement and the Restrictive Covenant Agreement constitutes the entire agreement between the Parties with respect to the subject matter hereof and supersedes all prior written or oral agreements (including any previous term sheets) between the Parties concerning such subject matter, but does not in any way merge with or supersede any other confidentiality, assignment of inventions or other restrictive covenant agreement or obligation entered into between the Parties, which agreements and obligations shall supplement, and shall not limit or be limited by, this Agreement and the Restrictive Covenant Agreement.

19. Counterparts. This Agreement may be executed in any number of counterparts, each of which when so executed and delivered shall be taken to be an original; but such counterparts shall together constitute one and the same document.

*[Remainder of Page Left Intentionally Blank]*

IN WITNESS WHEREOF, the parties have executed this Agreement effective on the Effective Date.

**METAGENOMI, INC.**

Dated: 06 November 2025

By: /s/Willard Dere  
Name: Willard Dere  
Title: Chairman of the Board

**EXECUTIVE**

Dated: 06 November 2025

/s/Jian Irish  
Jian Irish, MBA, PhD

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**Exhibit A**

**Outside Activities**

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**Exhibit B**

**Restrictive Covenant Agreement**

On file with the Company

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## EXECUTIVE EMPLOYMENT AGREEMENT

This Executive Employment Agreement (the “Agreement”) is entered into as of the 6th day of November, 2025 (the “Effective Date”) by and between Pamela Wapnick (the “Executive”) and Metagenomi, Inc. (the “Company”). The Executive and the Company are collectively referred to as the “Parties”. This Agreement shall be effective as of the Effective Date.

### RECITALS

**WHEREAS**, the Company desires to continue to employ the Executive and the Executive desires to continue to be employed by the Company under the terms and conditions contained herein.

**NOW, THEREFORE**, in consideration of the mutual covenants and agreements herein contained and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

1. Employment.

(a) Term. The Company hereby employs the Executive, and the Executive hereby accepts such employment, on the terms set forth herein commencing as of the Effective Date and continuing until this Agreement is terminated in accordance with the provisions of Section 3 hereof (the “Term”). The Executive’s employment with the Company shall be “at-will,” meaning that the Executive’s employment may be terminated by the Company or Executive at any time and for any reason, subject to the terms of this Agreement, including but not limited to, Sections 3 and 4.

(b) Position and Duties. During the Term, the Executive shall serve as the Chief Financial Officer and shall have such powers and duties as may from time to time be prescribed by the Board of Directors of the Company (the “Board”). The Executive shall devote the Executive’s full working time and efforts to the business and affairs of the Company. Notwithstanding the foregoing, the Executive may engage in appropriate service on approved boards of directors as long as such services are approved in advance by the Board in writing, and do not (i) create a conflict of interest or (ii) materially interfere with the Executive’s obligations or performance of the Executive’s duties to the Company. Executive may not engage in activities that (i) create a conflict of interest or (ii) materially, negatively interfere with the Executive’s obligations or performance of the Executive’s duties to the Company. The Executive’s current outside board service activities are disclosed on Exhibit A, to be updated from time to time. Any compensation received by the Executive for outside board service or other outside activities shall belong solely to the Executive, and the Company will have no right to such compensation.

(c) Location. Executive’s position is a remote job. Executive will generally work remotely from California. Executive will obtain the Company’s permission before working regularly from a different state. If the Company requires Executive to travel to a location for work other than Executive’s remote working space, the Company will reimburse Executive for the reasonable costs of such travel in accordance with the Company’s expense reimbursement policy.

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## 2. Compensation and Related Matters.

(a) Base Salary. Effective November 6, 2025, the Executive's annual base salary shall be five hundred thousand dollars (\$500,000), subject to applicable withholdings and deductions, and prorated for any partial year of employment. The base salary shall be evaluated periodically by the Board or the Compensation Committee of the Board (the "Compensation Committee"). The base salary in effect at any given time is referred to herein as "Base Salary". The Base Salary shall be payable in a manner that is consistent with the Company's usual payroll practices for senior executives.

(b) Incentive Compensation. During the Term, the Executive shall be eligible to receive an annual cash bonus as determined by the Board or the Compensation Committee from time to time. The Executive's target annual bonus shall be forty-five percent (45%) of Executive's Base Salary (the "Target Bonus"). The actual amount of the annual bonus, if any, shall be determined in the sole discretion of the Board or the Compensation Committee, subject to the performance of the Executive and the Company in accordance with performance goals established by the Company and the terms of any applicable incentive compensation plan that may be in effect from time to time. The Executive must be employed by the Company on the day such bonus is paid in order to earn or receive any annual bonus. The annual bonus, if any, shall be paid within thirty (30) days following the completion of the Company's annual financial audit for the fiscal year to which such bonus relates and the Company's receipt of an unqualified audit opinion for such audit.

(c) Equity. The Executive will be eligible to receive awards of stock options, restricted stock, or other equity awards (each, an "Award") pursuant to any plans or arrangements the Company may have in effect from time to time. The Board or Compensation Committee, as applicable, will determine in its discretion whether Executive will be granted an Award and the terms of such Award. Any Award will be subject to the terms and conditions of an agreement to be provided to the Executive, and the Company's applicable equity incentive plan or arrangement as in effect and amended from time to time (each, an "Equity Incentive Plan").

(d) Employee Benefits. During the Term, the Executive will be eligible to participate in the Company's employee benefit plans and programs in effect from time to time for senior executives of the Company, subject to the terms and eligibility requirements of such plans and programs.

(e) Expenses. The Executive shall be eligible to receive reimbursement for all reasonable and documented business expenses incurred by the Executive during the Term in performing services hereunder, in accordance with the policies and procedures then in effect and established by the Company.

(f) Paid Time Off. During the Term, the Executive shall be entitled to paid time off in accordance with Company policy as in effect from time to time.

3. Termination. During the Term, the Executive's employment hereunder may be terminated without any breach of this Agreement under the following circumstances:

(a) Death. The Executive's employment hereunder shall terminate upon the Executive's death, and the Executive or the Executive's estate will be eligible to receive death benefits in accordance with the Company's plans, programs, and practices as may be in effect at such time (if any). In addition, so long as Executive's estate signs a general release of all claims in favor of the Company (the "General Release") in the time period set by the Company (but in no event later than sixty (60) days following the date of Executive's death), then (i) Executive's estate will be eligible to receive a pro-rated Target Bonus (pro-rated based on the number of days that the Executive was employed in such year, divided by 365) for the year in which the termination occurs (the "Pro-rated Bonus") payable within sixty (60) days following the date of death and (ii) one hundred percent (100%) of Executive's Time-Based Equity Awards (as defined below) shall immediately vest on the Accelerated Vesting Date (as defined below); provided that, in order to effectuate the accelerated vesting contemplated by this subsection, the unvested portion of the Time-Based Equity Awards that would otherwise terminate or be forfeited on the Date of Termination will be delayed until the earlier of (A) the effective date of the General Release (at which time acceleration will occur) or (B) the date that the General Release can no longer become fully effective (at which time the unvested portion of the Executive's Time-Based Equity Awards will terminate or be forfeited). Notwithstanding the foregoing, no additional vesting of the Time-Based Equity Awards shall occur during the period between the Date of Termination and the Accelerated Vesting Date.

(b) Disability. The Company may terminate the Executive's employment if the Executive is disabled and unable to perform or expected to be unable to perform the essential functions of the Executive's then-existing position or positions under this Agreement with or without reasonable accommodation for a period of one hundred eighty (180) days (which need not be consecutive) in any twelve (12)-month period. Upon such termination, the Executive will be eligible to receive disability benefits in accordance with the Company's plans, programs, and practices as may be in effect at such time (if any). If any question shall arise as to whether during any period the Executive is disabled so as to be unable to perform the essential functions of the Executive's then existing position or positions with or without reasonable accommodation, the Executive may, and at the request of the Company shall, submit to the Company a certification in reasonable detail by a physician selected by the Company to whom the Executive or the Executive's guardian has no reasonable objection as to whether the Executive is so disabled or how long such disability is expected to continue, and such certification shall for the purposes of this Agreement be conclusive of the issue. The Executive shall cooperate with any reasonable request of the physician in connection with such certification. If such question shall arise and the Executive shall fail to submit such certification, the Company's determination of such issue shall be binding on the Executive. Nothing in this Section 3(b) shall be construed to waive the Executive's rights, if any, under existing law including, without limitation, the Family and Medical Leave Act of 1993, 29 U.S.C. §2601 et seq., the Americans with Disabilities Act, 42 U.S.C. §12101 et seq., the California Family Rights Act, and the California Fair Employment and Housing Act. If the Company terminates Executive's employment under this paragraph, and Executive signs the General Release and it becomes irrevocable and fully effective within sixty (60) days after the Date of Termination, then (i) the Company will pay Executive a Pro-rated Bonus within sixty (60) days following the Date of Termination and (ii) one hundred percent

(100%) of Executive's Time-Based Equity Awards (as defined below) shall immediately vest on the Accelerated Vesting Date (as defined below); provided that, in order to effectuate the accelerated vesting contemplated by this subsection, the unvested portion of the Time-Based Equity Awards that would otherwise terminate or be forfeited on the Date of Termination will be delayed until the earlier of (A) the effective date of the General Release (at which time acceleration will occur) or (B) the date that the General Release can no longer become fully effective (at which time the unvested portion of the Executive's Time-Based Equity Awards will terminate or be forfeited). Notwithstanding the foregoing, no additional vesting of the Time-Based Equity Awards shall occur during the period between the Date of Termination and the Accelerated Vesting Date.

(c) Termination by Company for Cause. The Company may terminate the Executive's employment hereunder for Cause. For purposes of this Agreement, "Cause" shall mean any of the following: (i) Executive's commission of any act of fraud, embezzlement, dishonesty or other act involving moral turpitude, (ii) Executive's commission of a felony under the laws of the United States or any state thereof or any foreign jurisdiction, (iii) Executive's continued failure to perform lawfully assigned duties for thirty (30) days after receiving written notification from the Board, (iv) Executive's unauthorized use or disclosure of confidential information or trade secrets of the Company or any of its affiliates or other violation of any material Company written policy or breach of any of Executive's written agreements with the Company or any of its affiliates relating to employment, non-competition, non-solicitation, nondisclosure, and/or assignment of inventions, (v) Executive's failure to cooperate with a bona fide internal investigation or an investigation by regulatory or law enforcement authorities, after being instructed by the Company to cooperate, or the willful destruction or failure to preserve documents or other materials known to be relevant to such investigation or the inducement of others to fail to cooperate or to produce documents or other materials in connection with such investigation, or (vi) any other misconduct or gross negligence by Executive that adversely affects the business of the Company in a material manner. Cause shall be determined by the Board in its discretion, and such determination shall be conclusive and binding. If the Board determines Cause exists and the Executive resigns before a termination for Cause is effectuated, the Board may treat such termination as by the Company for Cause.

(d) Termination by Company Without Cause. The Company may terminate the Executive's employment hereunder at any time without Cause. Any termination by the Company of the Executive's employment under this Agreement which does not constitute a termination for Cause under Section 3(c) and does not result from the death or disability of the Executive under Section 3(a) or (b) shall be deemed a termination without Cause.

(e) Termination by the Executive. The Executive may terminate the Executive's employment hereunder at any time for any reason, including but not limited to, for Good Reason. "Good Reason" means that the Executive resigns from employment within ninety (90) days after any of the following is undertaken by the Company (or its acquirer) without the Executive's consent: (i) a reduction in Executive's title, (ii) a material reduction of Executive's duties, authority or responsibilities, (iii) any material reduction of Executive's Base Salary (other than a proportionate reduction in Executive's Base Salary that affects all senior management of the Company); (iv) a material change in the geographic location at which Executive must perform services; provided that in no instance will the relocation of Executive to a facility or

location of thirty-five (35) miles or less from Executive's then current office location be deemed material for purposes of this Agreement; or (v) the Company's material breach of this Agreement or any equity award agreement by the Company; provided, however, that Good Reason shall not exist unless Executive has provided written notice to the Board of the purported grounds for the Good Reason within sixty (60) days of its initial existence and the Company has not remedied the condition after having been provided at least thirty (30) days to remedy the condition.

(f) Notice of Termination. Except for termination due to the Executive's death as specified in Section 3(a), any termination of the Executive's employment by the Company or any such termination by the Executive shall be communicated by written Notice of Termination to the other party hereto. If Executive terminates employment with the Company without Good Reason, Executive shall provide thirty (30) days' notice to the Company, and the Company shall have the option to accelerate the notice period and pay Executive in lieu of the remainder of the thirty (30)-day notice period.

(g) Date of Termination. For the purposes of this Agreement, "Date of Termination" shall mean: (i) if the Executive's employment is terminated by death, the date of Executive's death; (ii) if the Executive's employment is terminated for any reason other than death, the date that the Executive's employment with the Company terminates.

(h) Resignation of All Other Positions. Upon termination of employment for any reason, unless otherwise agreed in writing, the Executive shall be deemed to have resigned from all officer and board member positions (if applicable) that the Executive holds with the Company or any of its subsidiaries and affiliates. The Executive shall execute any documents in reasonable form as may be requested to confirm or effectuate any such resignations.

#### 4. Compensation Upon Termination.

(a) Accrued Obligations. If the Executive's employment with the Company is terminated for any reason, the Company shall pay or provide to the Executive (or to the Executive's authorized representative or estate) (i) any Base Salary earned through the Date of Termination; (ii) unpaid expense reimbursements (subject to, and in accordance with, Section 2(e) of this Agreement); (iii) any accrued but unused vacation, and (iv) any vested benefits the Executive may have under any employee benefit plan of the Company through the Date of Termination, which vested benefits shall be paid and/or provided in accordance with the terms of such employee benefit plans (collectively, the "Accrued Obligations").

(b) Severance Upon Termination by the Company without Cause or by the Executive for Good Reason Outside of the Change in Control Period. During the Term, if the Executive's employment is terminated by the Company without Cause or the Executive terminates employment for Good Reason, in each case outside of the Change in Control Period, then in addition to the Accrued Obligations, subject to the Executive (i) resigning from all positions, (ii) signing the General Release (including a re-affirmation of any continuing obligations and restrictive covenants) in a form and manner satisfactory to the Company, (iii) the General Release becoming irrevocable and fully effective, all within sixty (60) days after the Date of Termination, and (iv) the Executive not breaching any of the post-employment covenants

and contractual obligations to the Company, the Company shall provide the Executive the following payments and benefits (the “Severance Benefits”):

A. the Company shall pay the Executive a lump sum amount equal to nine (9) months of the Executive’s then current Base Salary (the “Severance Pay”), payable within sixty (60) days following the Date of Termination;

B. the Company shall pay the Executive the Pro-rated Bonus in a lump sum amount payable within sixty (60) days following the Date of Termination; and

C. if the Executive and Executive’s eligible dependents were participating in the Company’s group health plan immediately prior to the Date of Termination and timely elects continued group health coverage pursuant to the Consolidated Omnibus Budget Reconciliation Act of 1985, as amended (“COBRA”), then the Company shall pay to the Executive a monthly cash payment for nine (9) months in an amount equal to Executive’s and Executive’s eligible dependents monthly COBRA premium, subject to tax-related deductions and withholdings and payable in accordance with the Company’s regular payroll schedule.

(c) Severance Upon Termination by the Company without Cause or by the Executive for Good Reason during the Change in Control Period. During the Term, if the Executive’s employment is terminated by the Company without Cause or the Executive terminates employment for Good Reason, in each case during the Change in Control Period, then in addition to the Accrued Obligations, subject to the Executive (i) resigning from all positions, (ii) signing the General Release, (iii) the General Release becoming irrevocable and fully effective, all within sixty (60) days after the Date of Termination, and (iv) the Executive not breaching any of the post-employment covenants and contractual obligations to the Company, the Company shall provide the Executive the following payments and benefits (the “Change in Control Severance Benefits”):

A. the Company shall pay the Executive a lump sum amount equal to twelve (12) months of the Executive’s then current Base Salary (the “Enhanced Severance Pay”), payable within sixty (60) days following the Date of Termination;

B. the Company shall pay the Executive her Target Bonus, in a lump sum amount payable within sixty (60) days following the Date of Termination;

C. if the Executive and Executive’s eligible dependents were participating in the Company’s group health plan immediately prior to the Date of Termination and timely elects continued group health coverage pursuant to COBRA, then the Company shall pay to the Executive a monthly cash payment for twelve (12) months in an amount equal to Executive’s and Executive’s eligible dependents monthly COBRA premium, subject to tax-related deductions and withholdings and payable in accordance with the Company’s regular payroll schedule; and

D. notwithstanding anything to the contrary in any applicable Award agreement or Equity Incentive Plan, one hundred percent (100%) of Executive's then-outstanding and unvested Awards that are subject solely to time-based vesting (the "Time-Based Equity Awards") shall become fully vested and exercisable or nonforfeitable on the later of (i) the Date of Termination or the date of the Change in Control, as applicable or (ii) the effective date of the General Release (the "Accelerated Vesting Date"); provided that, in order to effectuate the accelerated vesting contemplated by this subsection, the unvested portion of the Time-Based Equity Awards that would otherwise terminate or be forfeited on the Date of Termination will be delayed until the earlier of (A) the date on which both a Change in Control and the effective date of the General Release has occurred (at which time acceleration will occur), (B) the date that the General Release can no longer become fully effective (at which time the unvested portion of the Executive's Time-Based Equity Awards will terminate or be forfeited) or (C) if the Date of Termination occurred prior to a Change in Control and no Change in Control has occurred, the date that is two months and one day after the Date of Termination (at which time the unvested portion of the Executive's Time-Based Equity Awards will terminate or be forfeited). Notwithstanding the foregoing, no additional vesting of the Time-Based Equity Awards shall occur during the period between the Date of Termination and the Accelerated Vesting Date.

(d) Avoidance of Doubt. For the avoidance of doubt, in no case will the Executive be eligible for benefits under both Section 4(b) and Section 4(c). If the Company has commenced providing severance pay and benefits to Executive under Section 4(b) prior to the date that Executive becomes eligible to receive severance pay and benefits under Section 4(c), the severance pay and benefits previously provided to Executive under Section 4(b) shall reduce the severance pay and benefits to be provided under Section 4(c).

(e) Benefits Upon Qualified Retirement. Upon Executive's Qualified Retirement, provided Executive signs the General Release and it becomes irrevocable and fully effective within sixty (60) days after the Date of Termination, then (i) the Company will pay the Executive the Pro-rated Bonus within sixty (60) days following the Date of Termination and (ii) one hundred percent (100%) of Executive's Time-Based Equity Awards shall immediately vest on the Accelerated Vesting Date; provided that, in order to effectuate the accelerated vesting contemplated by this subsection, the unvested portion of the Time-Based Equity Awards that would otherwise terminate or be forfeited on the Date of Termination will be delayed until the earlier of (A) the effective date of the General Release (at which time acceleration will occur) or (B) the date that the General Release can no longer become fully effective (at which time the unvested portion of the Executive's Time-Based Equity Awards will terminate or be forfeited). Notwithstanding the foregoing, no additional vesting of the Time-Based Equity Awards shall occur during the period between the Date of Termination and the Accelerated Vesting Date. For purposes of this Agreement, "Qualified Retirement" shall mean a termination of employment by an Executive without Good Reason if, on the Date of Termination (i) Executive is at least fifty-five (55) years old and the sum of Executive's age and years of service to the Company equals sixty-five (65) years or more and (ii) Executive has provided at least one (1) year notice prior to the Date of Termination.

(f) The Company shall provide the applicable severance benefits under Section 4(b), Section 4(c) or Section 4(e) starting within sixty (60) days after the Date of Termination; provided, however, that if the sixty (60)-day period begins in one calendar year and ends in a second calendar year, such severance benefits shall begin to be paid in the second calendar year by the last day of such sixty (60)-day period. Each payment pursuant to this Agreement is intended to constitute a separate payment for purposes of Treasury Regulation Section 1.409A-2(b)(2).

(g) The amounts payable and benefits provided to Executive on or following the Date of Termination pursuant to this Section 4 shall be in full and complete satisfaction of Executive's rights under this Agreement and any other claims for additional compensation that Executive may have in respect of Executive's employment with the Company or any of its subsidiaries. The receipt of any severance payments or benefits pursuant to Section 4 shall be subject to Executive not violating any of Executive's post-employment contractual obligations, including Executive's non-solicitation and non-disclosure obligations referenced in this Agreement or in any other agreement between the Parties. In the event Executive breaches any of Executive's post-employment obligations, in addition to all other legal and equitable remedies, the Company shall have the right to terminate or suspend all continuing payments and benefits to which the Executive may otherwise be entitled pursuant to Section 4 and shall be permitted to recover any severance payments or benefits provided, without affecting the Executive's release or Executive's obligations under the General Release.

(h) For purposes of this Agreement, "Change in Control" means the occurrence of any of the following events: (i) any "person" (as such term is used in Sections 13(d) and 14(d) of the Securities Exchange Act of 1934, as amended) becomes the "beneficial owner" (as defined in Rule 13d-3 under said Act), directly or indirectly, of securities of the Company representing fifty percent (50%) or more of the total voting power represented by the Company's then outstanding voting securities; (ii) the consummation of a merger or consolidation of the Company with any other corporation, other than a merger or consolidation which would result in the voting securities of the Company outstanding immediately prior thereto continuing to represent (either by remaining outstanding or by being converted into voting securities of the surviving entity) at least fifty percent (50%) of the total voting power represented by the voting securities of the Company or such surviving entity outstanding immediately after such merger or consolidation; or (iii) the consummation of the sale, lease or other disposition by the Company of all or substantially all the Company's assets. "Change in Control Period" means the period beginning on the date two (2) months prior to, and ending on the date that is twelve (12) months following, a Change in Control.

(i) Section 280G. Anything in this Agreement to the contrary notwithstanding, in the event that the amount of any compensation, payment or distribution by the Company to or for the benefit of the Executive, whether paid or payable or distributed or distributable pursuant to the terms of this Agreement or otherwise, calculated in a manner consistent with Section 280G of the Code, and the applicable regulations thereunder (the "Aggregate Payments"), would be subject to the excise tax imposed by Section 4999 of the Code, then the Aggregate Payments shall be reduced (but not below zero) so that the sum of all of the Aggregate Payments shall be \$1.00 less than the amount at which the Executive becomes subject to the excise tax imposed by Section 4999 of the Code; *provided* that such reduction shall

only occur if it would result in the Executive receiving a higher After Tax Amount (as defined below) than the Executive would receive if the Aggregate Payments were not subject to such reduction. In such event, the Aggregate Payments shall be reduced in the following order, in each case, in reverse chronological order beginning with the Aggregate Payments that are to be paid the furthest in time from consummation of the transaction that is subject to Section 280G of the Code: (1) cash payments not subject to Section 409A of the Code; (2) cash payments subject to Section 409A of the Code; (3) equity-based payments and acceleration; and (4) non-cash forms of benefits; *provided* that in the case of all the foregoing Aggregate Payments all amounts or payments that are not subject to calculation under Treas. Reg. §1.280G-1, Q&A-24(b) or (c) shall be reduced before any amounts that are subject to calculation under Treas. Reg. §1.280G-1, Q&A-24(b) or (c). For purposes of this Section 4(i), the “After Tax Amount” means the amount of the Aggregate Payments less all federal, state, and local income, excise and employment taxes imposed on the Executive as a result of the Executive’s receipt of the Aggregate Payments. For purposes of determining the After Tax Amount, the Executive shall be deemed to pay federal income taxes at the highest marginal rate of federal income taxation applicable to individuals for the calendar year in which the determination is to be made, and state and local income taxes at the highest marginal rates of individual taxation in each applicable state and locality, net of the maximum reduction in federal income taxes that could be obtained from deduction of such state and local taxes. The determination as to whether a reduction in the Aggregate Payments shall be made pursuant to this Section 4(i) shall be made by a nationally recognized accounting firm selected by the Company (the “Accounting Firm”), which shall provide detailed supporting calculations both to the Company and the Executive within 15 business days of the Date of Termination, if applicable, or at such earlier time as is reasonably requested by the Company or the Executive. Any determination by the Accounting Firm shall be binding upon the Company and the Executive.

#### 5. Section 409A.

(a) Anything in this Agreement to the contrary notwithstanding, if at the time of the Executive’s separation from service within the meaning of Section 409A of the Code, the Company determines that the Executive is a “specified employee” within the meaning of Section 409A(a)(2)(B)(i) of the Code, then to the extent any payment or benefit that the Executive becomes entitled to under this Agreement or otherwise on account of the Executive’s separation from service would be considered deferred compensation otherwise subject to the twenty percent (20%) additional tax imposed pursuant to Section 409A(a) of the Code as a result of the application of Section 409A(a)(2)(B)(i) of the Code, such payment shall not be payable and such benefit shall not be provided until the date that is the earlier of (A) six (6) months and one (1) day after the Executive’s separation from service, or (B) the Executive’s death. If any such delayed cash payment is otherwise payable on an installment basis, the first payment shall include a catch-up payment covering amounts that would otherwise have been paid during the six (6)-month period but for the application of this provision, and the balance of the installments shall be payable in accordance with their original schedule.

(b) All in-kind benefits provided and expenses eligible for reimbursement under this Agreement shall be provided by the Company or incurred by the Executive during the time periods set forth in this Agreement. All reimbursements shall be paid as soon as administratively practicable, but in no event shall any reimbursement be paid after the last day of

the taxable year following the taxable year in which the expense was incurred. The amount of in-kind benefits provided or reimbursable expenses incurred in one taxable year shall not affect the in-kind benefits to be provided or the expenses eligible for reimbursement in any other taxable year (except for any lifetime or other aggregate limitation applicable to medical expenses). Such right to reimbursement or in-kind benefits is not subject to liquidation or exchange for another benefit.

(c) To the extent that any payment or benefit described in this Agreement constitutes “non-qualified deferred compensation” under Section 409A of the Code, and to the extent that such payment or benefit is payable upon the Executive’s termination of employment, then such payments or benefits shall be payable only upon the Executive’s “separation from service.” The determination of whether and when a separation from service has occurred shall be made in accordance with the presumptions set forth in Treasury Regulation Section 1.409A-1(h).

(d) The Parties intend that this Agreement will be administered in accordance with Section 409A of the Code. To the extent that any provision of this Agreement is ambiguous as to its compliance with Section 409A of the Code, the provision shall be read in such a manner so that all payments hereunder comply with Section 409A of the Code. Each payment pursuant to this Agreement is intended to constitute a separate payment for purposes of Treasury Regulation Section 1.409A-2(b)(2). The Parties agree that this Agreement may be amended, as reasonably requested by either party, and as may be necessary to fully comply with Section 409A of the Code and all related rules and regulations in order to preserve the payments and benefits provided hereunder without additional cost to either party.

(e) The Company makes no representation or warranty and shall have no liability to the Executive or any other person if any provisions of this Agreement are determined to constitute deferred compensation subject to Section 409A of the Code but do not satisfy an exemption from, or the conditions of, such Section.

#### 6. Restrictive Covenants.

(a) The Executive hereby re-affirms the Employee Invention Assignment and Confidentiality Agreement that the Executive signed on September 18, 2023, and that is attached hereto as Exhibit B (the “Restrictive Covenant Agreement”), and the Restrictive Covenant Agreement is hereby incorporated as a material term of this Section and this Agreement.

(b) Protected Disclosures. For the avoidance of doubt, the Executive understands that pursuant to the federal Defend Trade Secrets Act of 2016, the Executive shall not be held criminally or civilly liable under any federal or state trade secret law for the disclosure of a trade secret that (A) is made (i) in confidence to a federal, state, or local government official, either directly or indirectly, or to an attorney; and (ii) solely for the purpose of reporting or investigating a suspected violation of law; or (B) is made in a complaint or other document filed in a lawsuit or other proceeding, if such filing is made under seal. The Executive further understands that nothing contained in this Agreement or the Restrictive Covenant Agreement limits the Executive’s ability to (A) file a charge or complaint with any federal, state or local governmental agency or commission (a “Government Agency”), including without limitation, the Equal Employment Opportunity Commission, the National Labor Relations Board

or the Securities and Exchange Commission (the “SEC”), (B) communicate with any Government Agency or otherwise participate in any investigation or proceeding that may be conducted by any Government Agency, including to provide documents or other information, without notice to the Company, (C) share compensation information concerning the Executive or others, except that this does not permit the Executive to disclose compensation information concerning others that the Executive has obtained because the Executive’s job responsibilities require or allow access to such information, or (D) discuss or disclose information about unlawful acts in the workplace, such as harassment or discrimination or any other conduct that the Executive has reason to believe is unlawful, or (E) testify truthfully in any legal proceeding. Any such communications and disclosures must be consistent with applicable law and the information disclosed must not have been obtained through a communication that was subject to the attorney-client privilege (unless disclosure of that information would otherwise be permitted consistent with such privilege or applicable law).

(c) Litigation and Regulatory Cooperation. During and after the Executive’s employment, the Executive shall cooperate fully with the Company in the defense or prosecution of any claims or actions now in existence or which may be brought in the future against or on behalf of the Company which relate to events or occurrences that transpired while the Executive was employed by the Company. The Executive’s full cooperation in connection with such claims or actions shall include, but not be limited to, being available to meet with counsel to prepare for discovery or trial and to act as a witness on behalf of the Company at mutually convenient times. During and after the Executive’s employment, the Executive also shall cooperate fully with the Company in connection with any investigation or review of any federal, state or local regulatory authority as any such investigation or review relates to events or occurrences that transpired while the Executive was employed by the Company. The Company shall reimburse the Executive for any reasonable out-of-pocket expenses incurred in connection with the Executive’s performance of obligations pursuant to this Section.

7. Third-Party Agreements and Rights. The Executive represents to the Company that the Executive’s execution of this Agreement, the Executive’s employment with the Company and the performance of the Executive’s duties for the Company as contemplated under this Agreement will not violate any obligations the Executive may have to any other party. In the Executive’s work for the Company, the Executive will not disclose or make use of any information in violation of any agreements with or rights of any such other party, and the Executive will not bring to the premises of the Company any copies or other tangible embodiments of non-public information belonging to or obtained from any such other party.

8. Severability. If any provision of this Agreement, or any part thereof, is held by a court, arbitrator or other authority of competent jurisdiction to be invalid or unenforceable, the parties agree that the court, arbitrator or authority making such determination will have the power to and shall, reduce the duration or scope of such provision or to delete specific words or phrases as necessary (but only to the minimum extent necessary) to cause such provision or part and the remainder of this Agreement to be valid and enforceable to the fullest extent permitted by applicable law. If such court, arbitrator or authority does not have the legal authority to take the actions described in the preceding sentence, the parties agree to negotiate in good faith a modified provision that would, in so far as possible, reflect the original intent of this Agreement without violating applicable law.

9. Remedies. The Executive acknowledges that the restrictions contained in this Agreement are reasonable and necessary to protect the Company's legitimate business interests and that any violation of the provisions contained herein would result in irreparable injury to the Company and that monetary damages may not be sufficient to compensate the Company for any economic loss which may be incurred by reason of breach of the restrictions contained herein. In the event of a breach or a threatened breach by the Executive of any provision contained herein, the Company shall be entitled to a temporary restraining order and injunctive relief restraining the Executive from the commission of any breach, shall not be required to provide any bond or other security in connection with obtaining any such equitable remedy and shall be entitled to recover the Company's reasonable attorneys' fees, costs and expenses related to the breach or threatened breach. Nothing contained in this Section shall be construed as prohibiting the Company from pursuing any other remedies available to it for any breach or threatened breach, including, without limitation, the recovery of money damages. In the event of a breach by Executive of any covenants contained herein, the term of such covenant shall be tolled until such breach has been duly cured.

10. Withholding. All payments made by the Company to the Executive under this Agreement shall be net of any tax or other amounts required to be withheld or deducted by the Company under applicable law.

11. Survival. The provisions of this Agreement and any other confidentiality, invention assignment, or other post-termination restrictive covenant obligations of the Executive to the Company shall survive the termination of this Agreement and/or the termination of the Executive's employment to the extent necessary to effectuate the terms contained herein.

12. Waiver. No waiver of any provision hereof shall be effective unless made in writing and signed by the waiving party. The failure of any party to require the performance of any term or obligation of this Agreement, or the waiver by any party of any breach of this Agreement, shall not prevent any subsequent enforcement of such term or obligation or be deemed a waiver of any subsequent breach.

13. Notices. Any notices, requests, demands and other communications provided for by this Agreement shall be sufficient if in writing and (a) delivered in person, (b) sent by a nationally recognized overnight courier service or by registered or certified mail, postage prepaid, return receipt requested, or (c) sent by electronic mail, to the Executive at the last mailing address or e-mail address, as applicable, the Executive has filed in writing with the Company or, in the case of the Company, at its main offices, attention of the Board, with a copy to legal@metagenomi.co.

14. Amendment. This Agreement may be amended or modified only by a written instrument signed by the Executive and by a duly authorized representative of the Company.

15. Governing Law. This Agreement shall be construed under and be governed in all respects by the laws of the State of California, without giving effect to the conflict of laws principles of such state.

16. Assignment; Successor to Company. Neither the Company nor the Executive may make any assignment of this Agreement or any interest herein, by operation of law or otherwise, without the prior written consent of the other party. Notwithstanding the foregoing, the Company may assign its rights under this Agreement, without any consent of the Executive, to any of the Company's affiliates or successors (including if the Company effects a reorganization, consolidates with or merges into any other corporation, limited liability company, partnership, organization or other entity, or transfers all or substantially all of its properties or assets to any other corporation, limited liability company, partnership, organization or other entity), in which case all references to the "Company" shall be deemed to mean the assignee or a designated affiliate of the assignee. This Agreement shall inure to the benefit of and be binding upon the Company and the Executive, and their respective successors, executors, administrators, heirs and permitted assigns.

17. No Third-Party Beneficiaries. This Agreement is intended solely for the benefit of the parties and the Company's respective successors and permitted assigns and shall not confer upon any other person any remedy, claim, liability, reimbursement, or other right. The Agreement is not intended and shall not be construed to create any third-party beneficiaries or to provide to any third parties with any remedy, claim, liability, reimbursement, cause of action, or other right or privilege.

18. Integration. This Agreement and the Restrictive Covenant Agreement constitutes the entire agreement between the Parties with respect to the subject matter hereof and supersedes all prior written or oral agreements (including any previous term sheets) between the Parties concerning such subject matter, but does not in any way merge with or supersede any other confidentiality, assignment of inventions or other restrictive covenant agreement or obligation entered into between the Parties, which agreements and obligations shall supplement, and shall not limit or be limited by, this Agreement and the Restrictive Covenant Agreement.

19. Counterparts. This Agreement may be executed in any number of counterparts, each of which when so executed and delivered shall be taken to be an original; but such counterparts shall together constitute one and the same document.

*[Remainder of Page Left Intentionally Blank]*

IN WITNESS WHEREOF, the parties have executed this Agreement effective on the Effective Date.

**METAGENOMI, INC.**

Dated: 06 November 2025

By: /s/Jian Irish  
Name: Jian Irish, MBA, PhD  
Title: President and CEO

**EXECUTIVE**

Dated: 06 November 2025

/s/Pamela Wapnick  
Pamela Wapnick, MBA

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**Exhibit A**

**Outside Activities**

None

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**Exhibit B**

**Restrictive Covenant Agreement**

On File with the Company

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**METAGENOMI, INC.**  
**INSIDER TRADING POLICY**

Metagenomi, Inc. (the “Company”) has adopted the following policy and procedures for securities trading by Company directors and employees (our “Insider Trading Policy”). Our Insider Trading Policy is intended to prevent the misuse of material nonpublic information, insider trading in securities, and the severe consequences associated with violations of insider trading laws. It is your obligation to review, understand, and comply with this Insider Trading Policy and applicable laws. Our Board of Directors has approved this Insider Trading Policy, and we have appointed Matthew Wein as the Compliance Officer (with their designees, the “Compliance Officer”) to administer the policy and to be available to answer your questions.

**PART I. OVERVIEW**

**A. Who Must Comply?**

This Insider Trading Policy applies to all of our employees and members of our Board of Directors, including anyone employed by or acting as a director of any of the Company’s subsidiaries, as well as any other individuals whom the Compliance Officer may designate as Insiders (defined below) because they have access to material nonpublic information about the Company.

In addition, all of our directors, executive officers (as defined by Section 16 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”)) and other designated employees must comply with the Trading Procedures included in Part II of this Insider Trading Policy (the “Trading Procedures”); we will refer to these individuals in this policy as “Insiders.” The Trading Procedures provide rules for when Insiders can trade in our securities and explain the process for mandatory pre-clearance of proposed trades. You will be notified if you are considered to be an Insider who is required to comply with the Trading Procedures.

This Insider Trading Policy and, for Insiders, the Trading Procedures also apply to the following persons (“Affiliated Persons”):

- your “Family Members” (“Family Members” are (a) your spouse or domestic partner, children, stepchildren, grandchildren, parents, stepparents, grandparents, siblings and in-laws who reside in the same household as you, (b) your children or your spouse’s children who do not reside in the same household as you but are financially dependent on you, (c) any of your other family members who do not reside in your household but whose transactions are directed by you, and (d) any other individual over whose account you have control and to whose financial support you materially contribute. (Materially contributing to financial support would include, for example, paying an individual’s rent but not just a phone bill.);
-

- all trusts, family partnerships and other types of entities formed for your benefit or for the benefit of a member of your family and over which you have the ability to influence or direct investment decisions concerning securities;
- all persons who execute trades on your behalf; and
- all investment funds, trusts, retirement plans, partnerships, corporations and other types of entities over which you have the ability to influence or direct investment decisions concerning securities; provided, however, that the Trading Procedures do not apply to any such entity that engages in the investment of securities in the ordinary course of its business (e.g., an investment fund or partnership) if the entity has established its own insider trading controls and procedures in compliance with applicable securities laws and it (or an affiliated entity) has represented to the Company that its affiliated entities: (a) engage in the investment of securities in the ordinary course of their respective businesses; (b) have established insider trading controls and procedures in compliance with securities laws; and (c) are aware the securities laws prohibit any person or entity who has material nonpublic information concerning the Company from purchasing or selling securities of the Company or from communicating such information to any other person under circumstances in which it is reasonably foreseeable that such person is likely to purchase or sell securities.

You are responsible for ensuring compliance with this Insider Trading Policy, including the Trading Procedures contained herein, by all of your Affiliated Persons.

***B. What is Prohibited by this Insider Trading Policy?***

You and your Affiliated Persons are prohibited from engaging in insider trading and from trading in securities in violation of this Insider Trading Policy. “Insider trading” is (1) trading (buying or selling) the securities of a company whether for your account or for the account of another, while in the possession of material nonpublic information (see definition below) about that company or (2) disclosing material nonpublic information about a company to others who may trade on the basis of that information. Insider trading can result in criminal prosecution, jail time, significant fines and public embarrassment for you and the Company.

**Prohibition on Trading in Company Securities**

When you are in possession of material nonpublic information about the Company, whether positive or negative, you are prohibited from trading (whether for your account or for the account of another) in the Company’s securities, which include common stock, options to purchase common stock, any other type of securities that the Company may issue (such as preferred stock, convertible debentures, warrants and exchange-traded options), and any derivative securities that provide the economic equivalent of ownership of any the Company’s securities or an opportunity, direct or indirect, to profit from any change in the value of the Company’s securities, except for trades made pursuant to plans approved by the Compliance Officer in accordance with this policy that are intended to comply with Rule 10b5-1 under the Exchange Act.

The trading prohibitions in this Insider Trading Policy do not apply to: (1) an exercise of an employee stock option when payment of the exercise price is made in cash or (2) the withholding by the Company of shares of stock upon vesting of restricted stock or upon settlement of restricted stock units to satisfy applicable tax withholding requirements if (a) such withholding is required by the applicable plan or award agreement or (b) the election to exercise such tax withholding right was made by the Insider in compliance with the Trading Procedures.

The trading prohibitions in this Insider Trading Policy do apply, however, to the use of outstanding Company securities to pay part or all of the exercise price of a stock option, any sale of stock as part of a broker-assisted cashless exercise of an option, and any other market sale for the purpose of generating the cash needed to pay the exercise price of an option.

### **Prohibition on Tipping**

Providing material nonpublic information about the Company to another person who may trade or advise others to trade on the basis of that information is known as “tipping” and is illegal. You are prohibited from providing material nonpublic information about the Company to a friend, relative, or anyone else who might buy or sell a security or other financial instrument on the basis of that information, whether or not you intend to or actually do realize a profit (or any other benefit) from such tipping. Additionally, you are prohibited from recommending to any person that such person engage in or refrain from engaging in any transaction involving the Company’s securities, or otherwise give trading advice concerning the Company’s securities, if you are in possession of material nonpublic information about the Company.

### **Prohibition on Trading in Securities of Other Companies**

This policy’s prohibitions against insider trading and tipping also apply to trading in securities of other companies, including the Company’s customers, suppliers, partners and other enterprises with which we are working (such as when negotiating an acquisition, investment or other transaction that could be material to the other company). Whenever, during the course of your service to or employment by the Company, you become aware of material nonpublic information about another company, including any confidential information that is reasonably likely to affect the market price of that company’s securities (for example, discussions of licensing a product or acquiring that other company), neither you nor your Affiliated Persons may trade in any securities of that company, give trading advice about that company, tip or disclose that information, pass it on to others, or engage in any other action to take advantage of that information.

If your work regularly involves handling or discussing confidential information of one of our partners, suppliers or customers, you should consult with the Compliance Officer before trading in any of that company’s securities.

### **Duration of Trading Prohibitions**

These trading prohibitions continue whenever and for as long as you know or are in possession of material nonpublic information. Remember, anyone scrutinizing your transactions will be doing so after the fact, with the benefit of hindsight. As a practical matter, before engaging

in any transaction, you should carefully consider even the appearance of improper insider trading and how enforcement authorities and others might view the transaction in hindsight.

This Insider Trading Policy applies to you and your Affiliated Persons so long as you are associated with the Company. If you leave the Company for any reason, this Insider Trading Policy, including, if applicable, the Trading Procedures described in Part III, will continue to apply to you and your Affiliated Persons until the later of: (1) the first trading day following the public release of earnings for the fiscal quarter in which you leave the Company or (2) the first trading day after any material nonpublic information known to you has become public or is no longer material.

### ***C. What is Material Nonpublic Information?***

This Insider Trading Policy prohibits you from trading in a company's securities if you are in possession of information about the company that is both "*material*" and "*nonpublic*." If you have a question whether certain information you are aware of is material or has been made public, you should consult with the Compliance Officer.

#### **"Material" Information**

Information about our Company or any other company is "material" if it could reasonably be expected to affect the investment decisions of a stockholder or potential investor or if disclosure of the information could reasonably be expected to significantly alter the total mix of information in the marketplace about us or any other company. We speak mostly in this Insider Trading Policy about determining whether information about us is material and nonpublic, but the same analysis applies to information about other companies that would preclude you from trading in their securities.

In simple terms, material information is any type of information that could reasonably be expected to affect the market price of our securities. Both positive and negative information may be material. While it is not possible to identify all information that would be deemed "material," the following items are examples of the types of information that could be material:

- significant new scientific discoveries or other events, late-stage preclinical development achievements or failures from any lead or other important preclinical programs, clinical program developments, filing of an Investigational New Drug Application or other significant regulatory events or interactions, relevant regulatory changes, data that have been recently generated from ongoing or recently completed clinical trials;
- plans to pursue, entry into, or termination of a major licensing, partnership, collaboration, manufacturing or supply agreement, or changes in relationships, including significant disputes, with major licensors, licensees, partners, collaborators, manufacturers, or suppliers;
- projections of future earnings or losses, or other earnings guidance;
- quarterly financial results that are known but have not been publicly disclosed;
- potential restatements of the Company's financial statements, changes in auditors or auditor notification that the Company may no longer rely on an auditor's audit report;

- pending or proposed corporate mergers, acquisitions, tender offers, joint ventures or dispositions of significant assets;
- changes in senior management, significant employees, or member of our Board of Directors;
- significant actual or threatened litigation or governmental investigations or major developments in such matters;
- cybersecurity risks and incidents, including the discovery of significant vulnerabilities or breaches;
- significant developments regarding products, customers, suppliers, orders, contracts or financing sources (e.g., the acquisition or loss of a contract);
- changes in dividend policy, declarations of stock splits, or proposed securities offerings or other financings;
- potential defaults under our credit agreements or indentures or potential material liquidity issues; and
- bankruptcies or receiverships.

The above items will not always be material. For example, some new products or contracts may clearly be material while others may not be. No “bright-line” standard or list of items can adequately address the range of situations that may arise; information and events should be carefully considered in terms of their materiality to the Company.

### **“Nonpublic” Information**

Material information is “nonpublic” if it has not been disseminated in a manner making it available to investors generally.

To demonstrate that information is public, one must be able to point to some fact that establishes that the information has become publicly available, such as the filing of a report with the SEC, the distribution of a press release, publishing the information on our website or posting on social media if those are regular ways we communicate with investors, or by other means that are reasonably designed to provide broad public access. Before a person with material nonpublic information can trade, the market must have adequate time to absorb the information that has been disclosed. For the purposes of this Insider Trading Policy, information will be considered public after the completion of one full day of trading following our public release of the information. For that purpose, a full day of trading means an entire calendar day in which a session of regular trading hours on the Nasdaq Stock Market (“Nasdaq”) between 9:30 a.m. and 4:00 p.m. Eastern Time (or such earlier close time as has been set by exchange rules) has occurred.

For example, if the Company publicly discloses material nonpublic information of which you are aware before trading begins on a Tuesday, the first time you can buy or sell Company securities is the opening of the market on Wednesday. However, if the Company publicly discloses material information after trading begins on a Tuesday, the first time that you can buy or sell Company securities is the opening of the market on Thursday.

***D. What are the Penalties for Insider Trading and Noncompliance with this Insider Trading Policy?***

Both the U.S. Securities and Exchange Commission (the “SEC”) and the national securities exchanges, through the Financial Industry Regulatory Authority (“FINRA”), investigate and are very effective at detecting insider trading. The U.S. government pursues insider trading violations vigorously, successfully prosecuting, for example, trading by employees in foreign accounts, trading by family members and friends of insiders, and trading involving only a small number of shares.

The penalties for violating rules against insider trading can be severe and include:

- forfeiting any profit gained or loss avoided by the trading;
- payment of the loss suffered by the persons who, contemporaneously with the purchase or sale of securities that are subject of a violation, have purchased or sold securities of the same class;
- payment of criminal penalties of up to \$5,000,000;
- payment of civil penalties of up to three times the profit made or loss avoided; and
- imprisonment for up to 20 years.

The Company and/or the supervisors of the person engaged in insider trading may also be required to pay civil penalties or fines of \$2 million or more, up to three times the profit made or loss avoided, as well as criminal penalties of up to \$25,000,000, and could under some circumstances be subject to private lawsuits.

Violation of this Insider Trading Policy or any federal or state insider trading laws may subject you to disciplinary action by the Company, including termination of your employment or other relationship with the Company. The Company reserves the right to determine, in its own discretion and on the basis of the information available to it, whether this Insider Trading Policy has been violated. The Company may determine that specific conduct violates this Insider Trading Policy whether or not it also violates the law. It is not necessary for the Company to await the filing or conclusion of a civil or criminal action against an alleged violator before taking disciplinary action.

***E. How Do You Report a Violation of this Insider Trading Policy?***

If you have a question about this Insider Trading Policy, including whether certain information you are aware of is material or has been made public, you should consult with the Compliance Officer. In addition, if you violate this Insider Trading Policy or any federal or state laws governing insider trading or know of any such violation by any director or employee of the Company, you should report the violation immediately to the Compliance Officer.

## PART II. TRADING PROCEDURES

### A. *Special Trading Restrictions Applicable to Insiders*

In addition to needing to comply with the restrictions on trading in our securities set forth above, Insiders and their Affiliated Persons are subject to the following special trading restrictions:

#### 1. **Special Closed Trading Periods**

The Compliance Officer may designate, from time to time, a “Special Closed Window” during what would be a permitted trading window. During a Special Closed Window, designated Insiders (which could be all Insiders or a subset of them) may not trade in the Company’s securities. The Compliance Officer may also impose a Special Closed Window on Insiders or a subset of them to prohibit trading in the securities of other companies, including specified peers or competitors of the Company. The imposition of a Special Closed Window will not be announced to the Company generally, should not be communicated to any other person, and may itself be considered under this Insider Trading Policy to be material nonpublic information about the Company.

#### 2. **Prohibited Transactions**

- ***No Short Sales.*** You may not at any time sell any securities of the Company that are not owned by you at the time of the sale (a “short sale”).
- ***No Purchases or Sales of Derivative Securities or Hedging Transactions.*** You may not buy or sell puts, calls, other derivative securities of the Company or any derivative securities that provide the economic equivalent of ownership of any of the Company’s securities or an opportunity, direct or indirect, to profit from any change in the value of our securities or engage in any other hedging transaction with respect to our securities.
- ***No Company Securities Subject to Margin Calls.*** You may not use the Company’s securities as collateral in a margin account.
- ***No Pledges.*** You may not pledge Company securities as collateral for a loan (or modify an existing pledge).

#### 3. **Gifts and Other Distributions in Kind.**

No Insider may donate or make any other transfer of Company securities without consideration when the Insider is not permitted to trade unless the donee agrees not to sell the shares until the Insider is permitted to sell. In addition to charitable donations or gifts to family members, friends, trusts or others, this prohibition applies to distributions to limited partners by limited partnerships that are subject to this Insider Trading Policy.

### B. *Pre-Clearance Procedures*

No Insider may trade in our securities, even during an open trading window, unless the trade has been approved by the Compliance Officer in accordance with the procedures described below.

Gifts of Company securities are considered a trade in securities for purposes of this Part II.B. In reviewing trading requests, the Compliance Officer may consult with our other officers and/or outside legal counsel, and must consult with outside legal counsel and seek approval of their own trades from the Chief Executive Officer.

**1. Procedures.** No Insider may trade in our securities unless:

- The Insider has notified the Compliance Officer of the amount and nature of the proposed trade(s) using the Stock Transaction Request form attached to this Insider Trading Policy. To provide adequate time for the preparation of any required reports under Section 16 of the Exchange Act, a Stock Transaction Request form should, if practicable, be received by the Compliance Officer at least two (2) business days before the intended trade date;
- The Insider has certified to the Compliance Officer in writing before the proposed trade(s) that the Insider does not possess material nonpublic information concerning the Company;
- If the Insider is an executive officer or director, the Insider has informed the Compliance Officer, using the Stock Transaction Request form, whether, to the Insider's best knowledge, (a) the Insider has (or is deemed to have) engaged in any opposite way transactions within the previous six months that were not exempt from Section 16(b) of the Exchange Act and (b) if the transaction involves a sale by an "affiliate" of the Company or of "restricted securities" (as such terms are defined under Rule 144 under the Securities Act of 1933, as amended ("Rule 144")), whether the transaction meets all of the applicable conditions of Rule 144; and
- The Compliance Officer has approved the trade(s) and has certified their approval in writing (which may be by email).

The Compliance Officer does not assume responsibility for, and approval by the Compliance Officer does not protect the Insider from, the consequences of prohibited insider trading.

**2. Additional Information.**

Insiders shall provide to the Compliance Officer any documentation the Compliance Officer reasonably requires in furtherance of the foregoing procedures. Any failure to provide such information will be grounds for the Compliance Officer to deny approval of the trade request.

### **3. Notification of Brokers of Insider Status**

Insiders who are required to file reports under Section 16 of the Exchange Act shall inform their broker-dealers that (a) the Insider is subject to Section 16; (b) the broker shall confirm that any trade by the Insider or any of their affiliates has been precleared by the Company; and (c) the broker is to provide transaction information to the Insider and/or Compliance Officer on the day of a trade.

### **4. No Obligation to Approve Trades.**

The foregoing approval procedures do not in any way obligate the Compliance Officer to approve any trade. The Compliance Officer has sole discretion to reject any trading request.

From time to time, an event may occur that is material to the Company and is known by only by a limited number of directors and employees. The Compliance Officer may decline an Insider's request to preclear a proposed trade based on the existence of a material nonpublic development – even if the Insider is not aware of that material nonpublic development. If any Insider engages in a trade before a material nonpublic development is disclosed to the public or resolved, the Insider and the Company might be exposed to a charge of insider trading that could be costly and difficult to refute even if the Insider was unaware of the development. So long as the event remains material and nonpublic, the Compliance Officer may decide not to approve any transactions in the Company's securities. The Compliance Officer will subsequently notify the Insider once the material nonpublic development is disclosed to the public or resolved. If an Insider requests preclearance of a trade during the pendency of such an event, the Compliance Officer may reject the trading request without disclosing the reason.

### **5. Completion of Trades.**

After receiving written clearance to engage in a trade signed by the Compliance Officer, an Insider must complete the proposed trade within three (3) business days or make a new trading request. Even if an Insider has received clearance, the Insider may not engage in a trade if (i) such clearance has been rescinded by the Compliance Officer, (ii) the Insider has otherwise received notice that the trading window has closed or (iii) the Insider has or acquires material nonpublic information.

### **6. Post-Trade Reporting.**

The details of any transactions in our securities (including transactions effected pursuant to a Rule 10b5-1 Plan) by an Insider (or an Affiliated Person) who is required to file reports under Section 16 of the Exchange Act must be reported to the Compliance Officer by the Insider or their brokerage firm on the same day on which a trade order is placed or such a transaction otherwise is entered into. The report shall include the date of the transaction, quantity of shares, the price and the name of the broker-dealer that effected the transaction. This reporting requirement may be satisfied by providing (or having the Insider's broker provide) a trade order confirmation to the Compliance Officer if the Compliance Officer receives such information by the required date. Compliance by directors and executive officers with this provision is imperative given the requirement of Section 16 of the Exchange Act that these persons generally report changes in ownership of Company securities within two (2) business days. The sanctions for noncompliance with this reporting deadline include

mandatory disclosure in the Company's proxy statement for the next annual meeting of stockholders, as well as possible civil or criminal sanctions for chronic or egregious violators.

### **C. Exemptions**

#### **1. Pre-Approved Rule 10b5-1 Plan.**

Transactions made pursuant to an approved Rule 10b5-1 Plan (as defined below) will not be subject to our trading windows or pre-clearance procedures, and Insiders are not required to complete a Stock Transaction Request form for such transactions. Rule 10b5-1 of the Exchange Act provides an affirmative defense from insider trading liability under the federal securities laws for trading plans, arrangements or instructions that meet specified requirements. A trading plan, arrangement or instruction that meets the requirements of the SEC's Rule 10b5-1 (a "Rule 10b5-1 Plan") enables Insiders to trade in Company securities outside of our trading windows, even when in possession of material nonpublic information.

The Company has adopted a separate Rule 10b5-1 Trading Plan Policy that sets forth the requirements for putting in place a Rule 10b5-1 Plan with respect to Company securities.

#### **2. Employee Equity and Retirement Plans.**

**Exercise of Stock Options.** The trading prohibitions and restrictions set forth in the Trading Procedures do not apply to the exercise for cash of an option to purchase securities of the Company. However, the exercise is subject to the current reporting requirements of Section 16 of the Exchange Act and, therefore, Insiders must comply with the post-trade reporting requirement described in Section C above for any such transaction. In addition, the securities acquired upon the exercise of an option to purchase Company securities are subject to all of the requirements of this Insider Trading Policy, including the Trading Procedures. Moreover, the Trading Procedures apply to the use of outstanding Company securities to pay part or all of the exercise price of an option, any net option exercise, any exercise of a stock appreciation right, share withholding and any sale of stock as part of a broker-assisted cashless exercise of an option or any other market sale for the purpose of generating the cash needed to pay the exercise price of an option.

**Tax Withholding on Restricted Stock/Units.** The trading prohibitions and restrictions set forth in the Trading Procedures do not apply to the withholding by the Company of shares of stock upon vesting of restricted stock or upon settlement of restricted stock units to satisfy tax withholding requirements if (a) withholding is required by the applicable plan or award agreement or (b) the election to exercise the tax withholding right was made by the Insider in compliance with the Trading Procedures.

**Employee Stock Purchase Plan.** The trading prohibitions and restrictions set forth in the Trading Procedures do not apply to periodic wage withholding contributions by the Company or its employees that are used to purchase Company stock pursuant to the employees' advance instructions under the Company's 2024 Employee Stock Purchase Plan. However, an Insider may not: (a) elect to participate in the plan or alter their instructions regarding the level of withholding or purchase by the Insider of Company securities under the plan; or (b) make cash contributions to the plan (other than through periodic wage withholding) without complying with the Trading Procedures. Any sale

of securities acquired under the plan is subject to the prohibitions and restrictions of the Trading Procedures.

***D. Waivers***

A waiver of any provision of this Insider Trading Policy or the Trading Procedures may be authorized in writing by the Compliance Officer or their designee or the Audit Committee of the Board of Directors. All waivers shall be reported to the Board of Directors.

**PART III. ACKNOWLEDGEMENT**

We will deliver a copy of this Insider Trading Policy to all current employees and directors and designated consultants and to future employees and directors and designated consultants at the start of their employment or relationship with the Company. Each of these individuals must acknowledge that they have received a copy and agree to comply with the terms of this Insider Trading Policy, and, if applicable, the Trading Procedures contained herein. The attached acknowledgment must be completed and submitted to the Company within ten days of receipt.

At our request, directors and employees and designated consultants will be required to re-acknowledge and agree to comply with the Insider Trading Policy (including any amendments or modifications). For that purpose, an individual will be deemed to have acknowledged and agreed to comply with the Insider Trading Policy, as amended from time to time, when copies of those items have been delivered by regular or electronic mail (or other delivery option used by the Company) to the Compliance Officer.

\* \* \*

Questions regarding this Insider Trading Policy are encouraged and may be directed to the Compliance Officer.

ADOPTED: January 26, 2024  
EFFECTIVE: February 8, 2024

EXHIBIT A

**STOCK TRANSACTION REQUEST**

Pursuant to **METAGENOMI, INC.**'s Insider Trading Policy, I hereby notify **METAGENOMI, INC.** (the "Company") of my intent to trade the securities of the Company as indicated below:

<b><u>REQUESTER INFORMATION</u></b>	
Insider's Name: _____	
<b><u>INTENT TO PURCHASE</u></b>	
Number of shares: _____	
Intended trade date: _____	
Means of acquiring shares:	
<input type="checkbox"/> Acquisition through employee benefit plan (please specify): _____	
<input type="checkbox"/> Purchase through a broker on the open market	
<input type="checkbox"/> Other (please specify): _____	
<b><u>INTENT TO SELL</u></b>	
Number of shares: _____	
Intended trade date: _____	
Means of selling shares:	
<input type="checkbox"/> Sale through employee benefit plan (please specify): _____	
<input type="checkbox"/> Sale through a broker on the open market	
<input type="checkbox"/> Other (please specify): _____	
<b>SECTION 16</b>	<b>RULE 144 (Not applicable if transaction requested involves a purchase)</b>
<input type="checkbox"/> I am not subject to Section 16.	<input type="checkbox"/> I am not an "affiliate" of the Company and the transaction requested above does not involve the sale of "restricted securities" (as those terms are defined in Rule 144 under the Securities Act of 1933, as amended).
<input type="checkbox"/> To the best of my knowledge, I have not (and am not deemed to have) engaged in an opposite way transaction within the previous 6 months that was not exempt from Section 16(b) of the Exchange Act.	<input type="checkbox"/> To the best of my knowledge, the transaction requested above will meet all of the applicable conditions of Rule 144.
<input type="checkbox"/> None of the above.	<input type="checkbox"/> The transaction requested will be made pursuant to an effective registration statement covering such transaction.
	<input type="checkbox"/> None of the above.

**CERTIFICATION**

I hereby certify that I am not (1) in possession of any material nonpublic information concerning the Company, as defined in the Company's Insider Trading Policy and (2) purchasing any securities of the Company on margin in contravention of the Company's Trading Procedures. I understand that, if I trade while possessing such information or in violation of such trading restrictions, I may be subject to severe civil and/or criminal penalties and may be subject to discipline by the Company including termination of my employment.

\_\_\_\_\_  
Insider's Signature

\_\_\_\_\_  
Date

**APPROVAL**

\_\_\_\_\_  
Signature of Compliance Officer (or  
designee

\_\_\_\_\_  
Date

*\*NOTE: Multiple lots must be listed on separate forms or broken out*

EXHIBIT B

**ACKNOWLEDGEMENT**

I hereby acknowledge that I have read, that I understand, and that I agree to comply with the Insider Trading Policy of Metagenomi, Inc. (the "Company"). I further acknowledge and agree that I am responsible for ensuring compliance with the Insider Trading Policy and the Trading Procedures by all of my "Affiliated Persons." I also understand and agree that I will be subject to sanctions, including termination of employment, that may be imposed by the Company, in its sole discretion, for violation of the Insider Trading Policy, and that the Company may give stop-transfer and other instructions to the Company's transfer agent or any brokerage firm managing the Company's equity incentive plan(s) against the transfer of any Company securities that the Company considers to be in contravention of the Insider Trading Policy.

This acknowledgement constitutes consent for the Company to impose sanctions for violation of the Insider Trading Policy, including the Trading Procedures, and to issue any stop-transfer orders to the Company's transfer agent that the Company, in its sole discretion, deems appropriate to ensure compliance.

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Send signed Acknowledgement to:

**[Name]**  
**[Title]**  
**[Company Name]**  
**[Address]**

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statements on Form S-3 (No. 333-285867) and Form S-8 (No. 333-285860 and 333-276983) of Metagenomi Therapeutics, Inc. of our report dated March 5, 2026 relating to the financial statements, which appears in this Form 10-K.

/s/ PricewaterhouseCoopers LLP  
San Jose, California  
March 5, 2026

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**CERTIFICATION PURSUANT TO  
RULES 13a-14(a) OR 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,  
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Jian Irish, certify that:

1. I have reviewed this Annual Report on Form 10-K of Metagenomi Therapeutics, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: March 5, 2026

By: \_\_\_\_\_ /s/ Jian Irish

**Jian Irish, Ph.D., M.B.A.**  
**President and Chief Executive Officer**  
**(Principal Executive Officer)**

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**CERTIFICATIONS OF PRINCIPAL EXECUTIVE OFFICER AND PRINCIPAL FINANCIAL OFFICER PURSUANT TO  
18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO  
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with this Annual Report on Form 10-K of Metagenomi Therapeutics, Inc. (the “Company”) for the fiscal year ended December 31, 2025, as filed with the Securities and Exchange Commission on the date hereof (the “Report”), each of the undersigned hereby certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that, to the best of their knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: March 5, 2026

By: \_\_\_\_\_ /s/ Jian Irish  
**Jian Irish, Ph.D., M.B.A.**  
**President and Chief Executive Officer**  
**(Principal Executive Officer)**

Date: March 5, 2026

By: \_\_\_\_\_ /s/ Pamela Wapnick  
**Pamela Wapnick, MBA**  
**Chief Financial Officer**  
**(Principal Financial Officer and Principal Accounting Officer)**

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