UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 14A

Proxy Statement Pursuant to Section 14(a) of the Securities Exchange Act of 1934 (Amendment No.)

Filed by the Registrant \boxtimes

Filed by a Party other than the Registrant \Box

Check the appropriate box:

- □ Preliminary Proxy Statement
- □ Confidential, for Use of the Commission Only (as permitted by Rule 14a-6(e)(2))
- Definitive Proxy Statement
- Definitive Additional Materials
- □ Soliciting Material Pursuant to §240.14a-12

INOZYME PHARMA, INC.

(Name of registrant as specified in its charter)

(Name of person(s) filing proxy statement, if other than the registrant)

Payment of Filing Fee (Check all boxes that apply):

- ⊠ No fee required.
- □ Fee paid previously with preliminary materials.
- Fee computed on table in exhibit required by Item 25(b) per Exchange Act Rules 14a-6(i)(1) and 0-11.



321 Summer Street, Suite 400 Boston, Massachusetts 02210 (857) 330-4340

NOTICE OF 2022 ANNUAL MEETING OF STOCKHOLDERS

To Be Held on June 10, 2022

Dear Stockholders:

You are cordially invited to virtually attend the 2022 annual meeting of stockholders, or the Annual Meeting, of Inozyme Pharma, Inc. The Annual Meeting will be held via the Internet at a virtual audio web conference at *https://www.proxydocs.com/INZY* on Friday, June 10, 2022 at 9:00 a.m., Eastern Time.

Only stockholders who owned shares of our common stock at the close of business on April 11, 2022 are entitled to notice of and to vote at the Annual Meeting or any adjournment thereof.

At the Annual Meeting, the stockholders will consider and vote on the following matters:

- 1. Election of two Class II directors, Sarah Bhagat and Reinaldo Diaz, each to serve for a three-year term expiring at the 2025 annual meeting of stockholders;
- 2. Ratification of the appointment of Ernst & Young LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2022; and
- 3. Transaction of any other business that may properly come before the Annual Meeting or any adjournment or postponement thereof.

The Annual Meeting will be a "virtual meeting" of stockholders, which will be conducted exclusively via the Internet at a virtual web conference. There will not be a physical meeting location, and stockholders will not be able to attend the Annual Meeting in person. This means that you can attend the Annual Meeting online, vote your shares during the online meeting and submit questions during the online meeting. In order to attend the meeting and vote your shares electronically during the meeting, you must register in advance at *https://www.proxydocs.com/INZY* prior to the deadline of June 8, 2022 at 5:00 p.m., Eastern Time. Upon completing your registration, you will receive further instructions via email, including your unique links that will allow you to attend the Annual Meeting online, vote your shares and submit questions. We believe that hosting a "virtual meeting" will enable greater stockholder attendance and participation from any location around the world.

You can find more information, including the nominees for director, in the proxy statement for the Annual Meeting, which is available for viewing, printing and downloading at *https://www.proxydocs.com/INZY*. The board of directors recommends that you vote "FOR" each of the Class II directors (Proposal 1) and "FOR" the ratification of the appointment of the independent registered public accounting firm (Proposal 2) as outlined in the attached proxy statement.

We are pleased to comply with the rules of the Securities and Exchange Commission that allow companies to distribute their proxy materials over the Internet under the "notice and access" approach. As a result, we will send to our stockholders a Notice of Internet Availability of Proxy Materials, or the Notice of Availability, instead of a paper copy of the proxy statement and our annual report for the fiscal year ended December 31, 2021, or the 2021 Annual Report. We plan to mail the Notice of Availability on or before April 27, 2022, and the Notice of Availability contains instructions on how to access our proxy materials over the Internet. The Notice of Availability also contains instructions on how each of our stockholders can receive a paper copy of our proxy materials, including the proxy statement, our 2021 Annual Report, and a form of proxy card.

Your vote is important regardless of the number of shares you own. Whether or not you expect to virtually attend the Annual Meeting, please vote your shares to ensure your representation and the presence of a quorum at the Annual Meeting. If you are a stockholder of record, you may vote your shares prior to the Annual Meeting on the Internet by visiting *https://www.proxypush.com/INZY*, *by telephone by calling* **1-866-509-1045** *and following the recorded instructions, or by completing, signing, dating, and returning a proxy card. If you vote prior to the Annual Meeting and then decide to attend the Annual Meeting and vote your shares online during the Annual Meeting, you may still do so. Your proxy is revocable in accordance with the procedures set forth in the proxy statement.*

If your shares are held in "street name," that is, held for your account by a bank, broker or other nominee, you will receive instructions from the bank, broker or other nominee that you must follow for your shares to be voted. Stockholders that hold shares in "street name" must demonstrate proof of beneficial ownership to virtually attend the Annual Meeting and must obtain a legal proxy from their bank, broker or other nominee to vote during the Annual Meeting.

A list of stockholders as of the close of business on the record date will be available for examination by our stockholders of record during the Annual Meeting using the unique link provided via email following the completion of registration. Further information about how to register for the Annual Meeting, attend the Annual Meeting online, vote your shares and submit questions is included in the accompanying proxy statement.

By Order of the Board of Directors,

Axel Bolte President and Chief Executive Officer

Boston, Massachusetts April 27, 2022

Important Notice Regarding Internet Availability of Proxy Materials for the 2022 Annual Meeting of Stockholders to be held on June 10, 2022: The attached proxy statement and our 2021 Annual Report to stockholders, which includes our annual report on Form 10-K for the fiscal year ended December 31, 2021, are available for viewing, printing and downloading at https://www.proxydocs.com/INZY. These documents are also available to any stockholder who wishes to receive a paper copy upon written request to Inozyme Pharma, Inc., 321 Summer Street, Suite 400, Boston, Massachusetts 02210. This proxy statement and our annual report on Form 10-K for the fiscal year ended December 31, 2021 are also available on the SEC's website at http://www.sec.gov. -

INOZYME PHARMA, INC.

PROXY STATEMENT

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321 Summer Street, Suite 400 Boston, Massachusetts 02210 (857) 330-4340

PROXY STATEMENT 2022 ANNUAL MEETING OF STOCKHOLDERS To Be Held on June 10, 2022

INFORMATION CONCERNING SOLICITATION AND VOTING

This proxy statement contains information about the Annual Meeting of Stockholders of Inozyme Pharma, Inc., or the Annual Meeting, to be held on Friday, June 10, 2022 at 9:00 a.m., Eastern Time. The Annual Meeting will be held via the Internet at *https://www.proxydocs.com/INZY*. There will not be a physical meeting location, and stockholders will not be able to attend the Annual Meeting in person. Further information about how to attend the Annual Meeting online is included in this proxy statement.

The board of directors of Inozyme Pharma, Inc. is using this proxy statement to solicit proxies for use at the Annual Meeting and any adjournment or postponement of that meeting. In this proxy statement, unless expressly stated otherwise or the context otherwise requires, references to "Inozyme," "the Company," "we," "us," "our" and similar terms refer to Inozyme Pharma, Inc. References to our website are inactive textual references only and the contents of our website are not incorporated by reference into this proxy statement.

All properly submitted proxies will be voted in accordance with the instructions contained in those proxies. If no instructions are specified, the shares represented by the proxies will be voted in accordance with the recommendation of our board of directors with respect to each of the matters set forth in the accompanying Notice of Meeting. If you are a stockholder of record, you may change your vote or revoke your proxy at any time before it is exercised at the meeting by following the instructions set forth in this proxy statement.

We have elected to provide access to our proxy materials over the Internet under the Securities and Exchange Commission's "notice and access" rules. As a result, we are mailing to our stockholders a Notice of Internet Availability of Proxy Materials, or Notice of Availability, instead of a paper copy of this proxy statement and our annual report for the fiscal year ended December 31, 2021, or the 2021 Annual Report. We will send the Notice of Availability on or before April 27, 2022, and the Notice of Availability contains instructions on how to access our proxy materials over the Internet. The Notice of Availability also contains instructions on how each of our stockholders can receive a paper copy of our proxy materials, including this proxy statement, our 2021 Annual Report, and a form of proxy card.

Important Notice Regarding the Availability of Proxy Materials for the Annual Meeting of Stockholders to be Held on June 10, 2022:

This proxy statement and our 2021 Annual Report are available for viewing, printing and downloading at https://www.proxydocs.com/INZY.

A copy of our annual report on Form 10-K for the fiscal year ended December 31, 2021, as filed with the Securities and Exchange Commission, or SEC, except for exhibits, will be furnished without charge to any stockholder upon written request to Inozyme Pharma, Inc., 321 Summer Street, Suite 400, Boston, Massachusetts 02210. This proxy statement and our annual report on Form 10-K for the fiscal year ended December 31, 2021 are also available on the SEC's website at http://www.sec.gov.

IMPORTANT INFORMATION ABOUT THE ANNUAL MEETING AND VOTING

Purpose of the Annual Meeting

At the Annual Meeting, our stockholders will consider and vote on the following matters:

- 1. The election of two Class II directors, Sarah Bhagat and Reinaldo Diaz, each to serve for a three-year term expiring at the 2025 annual meeting of stockholders;
- 2. The ratification of the appointment of Ernst & Young LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2022; and
- 3. The transaction of any other business that may properly come before the Annual Meeting or any adjournment or postponement thereof.

As of the date of this proxy statement, we are not aware of any business to come before the Annual Meeting other than the first two items noted above.

Board of Directors Recommendation

Our board of directors unanimously recommends that you vote:

FOR the election of the two nominees to serve as Class II directors on our board of directors, each for a three-year term expiring at the 2025 annual meeting of stockholders; and

FOR the ratification of the appointment of Ernst & Young LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2022.

Availability of Proxy Materials

The proxy materials, including this proxy statement, a proxy card and our 2021 Annual Report are available for viewing, printing and downloading on the Internet at *https://www.proxydocs.com/INZY*. If you would like to receive a paper copy of our proxy materials, you should follow the instructions for requesting paper materials in the Notice of Availability.

Who Can Vote at the Annual Meeting?

Only stockholders who owned shares of our common stock at the close of business on the record date of April 11, 2022 are entitled to receive notice of the Annual Meeting and to vote the shares of our common stock that they held on that date. As of April 11, 2022, there were 23,820,089 shares of our common stock issued and outstanding. Each share of common stock is entitled to one vote on each matter properly brought before the Annual Meeting.

Difference Between a "Stockholder of Record" and a Beneficial Owner of Shares Held in "Street Name"

Stockholder of Record. If your shares are registered directly in your name with our transfer agent, Computershare Trust Company, N.A., then you are considered the "stockholder of record" of those shares. In this case, your Notice of Availability has been sent to you directly by us. You may vote your shares by proxy prior to the Annual Meeting by following the instructions contained in the Notice of Availability and in the section titled "How to Vote" below.

Beneficial Owner of Shares Held in Street Name. If your shares are held by a bank, broker or other nominee, then you are considered the beneficial owner of those shares, which are held in "street name." In this case, your

Notice of Availability will be sent to you by that organization. The organization holding your shares is considered the stockholder of record for purposes of voting at the Annual Meeting. As the beneficial owner, you have the right to instruct that organization as to how to vote the shares held in your account by following the instructions contained on the voting instruction form provided to you by that organization.

Why Did I Receive a Notice in the Mail Regarding the Internet Availability of Proxy Materials instead of a Full Set of Proxy Materials?

We are pleased to comply with the SEC rules that allow companies to distribute their proxy materials over the Internet under the "notice and access" approach. As a result, we are sending our stockholders and beneficial owners of our common stock a copy of the Notice of Availability instead of paper copies of this proxy statement, our proxy card, and our 2021 Annual Report. We will send the Notice of Availability on or before April 27, 2022. Detailed instructions on how to access these materials via the Internet may be found in the Notice of Availability. This proxy statement and our 2021 Annual Report are available for viewing, printing and downloading on the Internet at *https://www.proxydocs.com/INZY*.

Why is the Annual Meeting a Virtual, Online Meeting?

Our Annual Meeting will be a virtual meeting of stockholders where stockholders will participate by accessing a website using the Internet. We believe that hosting a virtual meeting will facilitate stockholder attendance and participation at our Annual Meeting by enabling stockholders to participate from any location around the world. Our virtual meeting will be governed by our Rules of Conduct and Procedures which will be posted at *https://www.proxydocs.com/INZY* in advance of the meeting. We have designed the virtual annual meeting to provide our stockholders with the same rights and opportunities to participate as stockholders would have at an in person meeting, including the right to vote and ask questions during the during the meeting through the virtual meeting platform.

How Do I Attend the Virtual Annual Meeting?

The Annual Meeting will be a virtual meeting and you may not attend in person. In order to attend the meeting online, you must register in advance at *https://www.proxydocs.com/INZY* prior to the deadline of June 8, 2022 at 5:00 p.m., Eastern Time.

Online registration for the Annual Meeting will begin on April 27, 2022 and you should allow ample time for the online registration. Upon completing your registration, you will receive further instructions via email, including your unique link that will allow you access to the meeting. Please be sure to following the instructions you will receive once your registration is complete.

The Annual Meeting will start at 9:00 a.m., Eastern Time, on June 10, 2022. A second email containing your unique link to access the virtual Annual Meeting will be emailed to you at 8:00 a.m., Eastern Time, on June 10, 2022 if registration was properly submitted. You may log on to the virtual meeting starting one hour before it begins.

If you encounter any difficulties accessing the meeting during check-in or at the time of the virtual meeting, please contact technical support, whose contact information will be included in the email containing the unique link granting access to the meeting. There will be technicians standing by and ready to assist you with any technical difficulties you may have accessing the virtual meeting.

How to Vote

If you are the stockholder of record of your shares, you can vote your shares by proxy prior to the Annual Meeting or online during the Annual Meeting.

If you choose to vote by proxy **prior to the Annual Meeting**, you may do so by telephone, via the Internet or by mail as follows:

- *By Telephone Prior to the Annual Meeting.* You may transmit your proxy over the phone prior to the Annual Meeting by calling 1-866-509-1045 and following the instructions provided in the Notice of Availability and on the proxy card. You will need to have your Notice of Availability or proxy card in hand when you call.
- *Via the Internet Prior to the Annual Meeting.* You may transmit your proxy via the Internet prior to the Annual Meeting by following the instructions provided in the Notice of Availability and on the proxy card. You will need to have your Notice of Availability or proxy card in hand when you access the website. The website for voting is available at *https://www.proxypush.com/INZY*.
- *By Mail Prior to the Annual Meeting.* If you requested printed copies of proxy materials, you can vote by mailing your proxy card as described in the proxy materials.

In order to attend the Annual Meeting online and **vote online during the Annual Meeting**, you must register in advance at *https://www.proxydocs.com/INZY* prior to the deadline of June 8, 2022 at 5:00 p.m., Eastern Time. You may vote your shares online while virtually attending the Annual Meeting by following the instructions found on your Notice of Availability, proxy card and/or voting instruction form and subsequent instructions that will be delivered to you via email following your registration. If you vote by proxy prior to the Annual Meeting and choose to attend the Annual Meeting online, there is no need to vote again during the Annual Meeting unless you wish to change your vote.

If your shares are held in street name, your bank, broker or other nominee is required to vote the shares it holds on your behalf according to your instructions. The proxy materials, as well as voting and revocation instructions, should have been forwarded to you by the bank, broker or other nominee that holds your shares. In order to vote your shares you will need to follow the instructions that your bank, broker or other nominee provides you. The voting deadlines and availability of telephone and Internet voting for beneficial owners of shares held in "street name" will depend on the voting processes of the bank, broker or other nominee that holds your shares. Therefore, we urge you to carefully review and follow the voting instruction form and any other materials that you receive from that organization. If your shares are held in "street name", you must demonstrate proof of beneficial ownership to virtually attend the Annual Meeting and must obtain a legal proxy from your bank, broker or other nominee to vote at the Annual Meeting. Only stockholders who have registered to attend the meeting by June 8, 2022 at 5:00 p.m., Eastern Time, using the process described above may vote during the meeting.

Even if you plan to attend the Annual Meeting online, we urge you to vote your shares by proxy in advance of the Annual Meeting so that if you should become unable to attend the Annual Meeting your shares will be voted as directed by you.

Can I Vote My Shares by Filling Out and Returning the Notice of Internet Availability of Proxy Materials?

No. The Notice of Availability and proxy card contain instructions on how to vote by proxy via the Internet, by telephone, by requesting and returning a paper proxy card, or by voting online while virtually attending the Annual Meeting.

How Do I Submit a Question for the Annual Meeting?

If you wish to submit a question for the Annual Meeting, you may do so during the registration process for the Annual Meeting. In addition, on the day of the Annual Meeting, beginning at 8:45 a.m., Eastern Time, on June 10, 2022, you may submit a question for the Annual Meeting by logging into the virtual meeting platform using the unique link provided to you via email one hour prior to the start of Annual Meeting and following the instructions there.

Our virtual meeting will be governed by our Rules of Conduct and Procedures which will be posted at *https://www.proxydocs.com/INZY* during the Annual Meeting. The Rules of Conduct and Procedures will address the ability of stockholders to ask questions during the meeting, including rules on permissible topics, and rules for how questions and comments will be recognized and disclosed to meeting participants. We will answer appropriate questions that are pertinent to our company and the matters to be voted on by the stockholders at the Annual Meeting. Because time is limited at the Annual Meeting, we may not be able to answer all questions that are submitted. If there are any matters of individual concern to a stockholder and not of general concern to all stockholders, or if a question was not otherwise answered, such matters may be raised separately after the Annual Meeting by contacting Investor Relations at ir@inozyme.com. To promote fairness and the efficient use of our resources and to address all stockholder questions, we will limit each stockholder to two questions, which should each be succinct and should cover only one topic. Questions from multiple stockholders on the same topic or that are otherwise related may be grouped, summarized and answered together.

May I See a List of Stockholders Entitled to Vote as of the Record Date?

A list of stockholders as of the close of business on the record date will be available for examination by the stockholders during the Annual Meeting using the unique link provided via email following the completion of registration for the Annual Meeting.

Quorum

A quorum of stockholders is necessary to hold a valid meeting. Our amended and restated bylaws provide that a quorum will exist if stockholders holding a majority of the shares of stock issued and outstanding and entitled to vote at the meeting are present at the meeting in person or by proxy. Shares that are represented virtually during the Annual Meeting will be considered shares of common stock represented in person at the meeting for purposes of determining whether a quorum exists. If a quorum is not present, we expect to adjourn the Annual Meeting until a quorum is obtained.

Abstentions and broker non-votes count as present for establishing a quorum but will not be counted as votes cast. Broker non-votes occur when your bank, broker or other nominee submits a proxy for your shares (because the bank, broker or other nominee has received instructions from you on one or more proposals, but not all proposals, or has not received instructions from you but is entitled to vote on a particular "discretionary" matter) but does not indicate a vote for a particular proposal because the bank, broker or other nominee either does not have the authority to vote on that proposal and has not received voting instructions from you or has discretionary authority but chooses not to exercise it.

Ballot Measures Considered "Discretionary" and "Non-Discretionary"

If your shares are held in "street name," your bank, broker or other nominee may under certain circumstances vote your shares even if you do not return voting instructions. Banks, brokers or other nominees are permitted to vote customers' shares for which they have received no voting instructions on specified routine, or "discretionary," matters, but they are not permitted to vote these shares on other non-routine, or "non-discretionary," matters.

The election of directors (Proposal No. 1) is considered a non-discretionary matter under applicable rules. Therefore, if your shares are held in "street name," your bank, broker or other nominee cannot vote on this matter without voting instructions from you. The ratification of the appointment of Ernst & Young LLP as our independent registered public accounting firm for the year ending December 31, 2022 (Proposal No. 2) is considered a discretionary matter under applicable rules. Therefore, if your shares are held in "street name," your bank, broker or other nominee may exercise discretionary authority to vote on this matter in the absence of voting instructions from you.

If you do not instruct your bank, broker or other nominee how to vote with respect to the election of directors (Proposal No. 1), your bank, broker or other nominee may not vote with respect to this proposal and your shares

will be counted as "broker non-votes." Broker non-votes are shares that are held in "street name" by a bank, broker or other nominee that indicates on its proxy card that it does not have or did not exercise discretionary authority to vote on a particular matter.

Votes Required to Elect a Director and to Ratify Appointment of Ernst & Young LLP

A nominee will be elected as a director if the nominee receives a plurality of the votes cast by stockholders entitled to vote at the meeting (Proposal No. 1). Votes withheld and broker non-votes will not be counted as votes cast or voted on Proposal No. 1. Accordingly, votes withheld and broker non-votes will have no effect on the voting on Proposal No. 1.

The ratification of the appointment of Ernst & Young LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2022 requires the affirmative vote of a majority of the shares of common stock present or represented by proxy and voted "for" or "against" such matter (Proposal No. 2). Abstentions and broker non-votes will not be counted as votes cast or voted on Proposal No. 2. Accordingly, abstentions and broker non-votes will have no effect on the voting on Proposal No. 2.

Method of Counting Votes

Each holder of common stock is entitled to one vote at the Annual Meeting on each matter to come before the Annual Meeting, including the election of directors, for each share held by such stockholder as of the record date.

Votes cast online during the Annual Meeting or by proxy by mail, via the Internet or by telephone will be tabulated by the inspector of election appointed for the Annual Meeting, who will also determine whether a quorum is present.

Revoking a Proxy; Changing Your Vote

If you are a stockholder of record, you may revoke your proxy before the vote is taken at the Annual Meeting:

- by submitting a new proxy with a later date before the applicable deadline either signed and returned by mail or transmitted using the telephone or Internet voting procedures described in the "How to Vote" section above, in each case, prior to the Annual Meeting;
- by voting online at the Annual Meeting using the procedures described in the "How to Vote" section above; or
- by filing a written revocation with our corporate secretary prior to the Annual Meeting.

If your shares are held in "street name," you may submit new voting instructions by contacting your bank, broker or other nominee holding your shares. You may also vote online during the Annual Meeting, which will have the effect of revoking any previously submitted voting instructions, if you obtain a legal proxy from the organization that holds your shares and follow the procedures described in the "How to Vote" section above.

Your virtual attendance at the Annual Meeting, without voting online during the Annual Meeting, will not revoke your proxy.

Costs of Proxy Solicitation

We will bear the costs of soliciting proxies. Our directors, officers and regular employees, without additional remuneration, may solicit proxies by mail, telephone, facsimile, email, personal interviews and other means.

Voting Results

We plan to announce preliminary voting results at the Annual Meeting and will publish final results in a Current Report on Form 8-K to be filed with the SEC within four business days following the Annual Meeting.

PROPOSAL NO. 1-ELECTION OF TWO CLASS II DIRECTORS

Our board of directors currently consists of eight members. In accordance with the terms of our restated certificate of incorporation, our board of directors is divided into three classes (Class I, Class II and Class III), with members of each class serving staggered three-year terms. The members of the classes are divided as follows:

- the Class I directors are Axel Bolte, Robert Hopfner and Edward Mathers, and their term expires at the annual meeting of stockholders to be held in 2024;
- the Class II directors are Sarah Bhagat and Reinaldo Diaz, and their term expires at the Annual Meeting; and
- the Class III directors are Martin Edwards, Lynne Sullivan and Douglas Treco, and their term expires at the annual meeting of stockholders to be held in 2023.

Upon the expiration of the term of a class of directors, directors in that class will be eligible to be elected for a new three-year term at the annual meeting of stockholders in the year in which their term expires.

Our restated certificate of incorporation provides that the authorized number of directors may be changed only by resolution of our board of directors. Our restated certificate of incorporation also provides that our directors may be removed only for cause and only by the affirmative vote of the holders of at least 75% of the votes that all our stockholders would be entitled to cast in an annual election of directors, and that any vacancy on our board of directors, including a vacancy resulting from an enlargement of our board of directors, may be filled only by vote of a majority of our directors then in office.

Our board of directors has nominated Sarah Bhagat and Reinaldo Diaz for election as Class II directors at the Annual Meeting. Dr. Bhagat and Mr. Diaz are each presently directors, and each have indicated a willingness to continue to serve as a director, if elected.

We have no formal policy regarding board diversity, but our Corporate Governance Guidelines provide that the value of diversity should be considered and that the background and qualifications of the members of our board of directors considered as a group should provide a significant breadth of experience, knowledge, and ability to assist our board of directors in fulfilling its responsibilities, as well as diversity of gender, race, ethnicity, sexual identity, age, and academic background. Our priority in selection of board members is identification of members who will further the interests of our stockholders through their established records of professional accomplishment, the ability to contribute positively to the collaborative culture among our board members, knowledge of our business, understanding of the competitive landscape in which we operate and adherence to high ethical standards. Certain individual qualifications and skills of our directors that contribute to our board of directors' effectiveness as a whole are described in the following paragraphs.

Nominees for Election as Class II Directors

Biographical information as of March 31, 2022, including principal occupation and business experience during the last five years, for our nominees for election as Class II directors at our Annual Meeting is set forth below.

Sarah Bhagat, Ph.D., age 36, has served on our board of directors since March 2019. Dr. Bhagat has served as a partner at Sofinnova Investments, Inc., or Sofinnova, a venture capital firm, since March 2020. She served as principal at Sofinnova from January 2019 to December 2019 and as an associate from May 2017 to December 2018. Dr. Bhagat was a postdoctoral fellow at Stanford University from April 2016 to May 2017. Dr. Bhagat served as a venture fellow at Canaan Partners, a venture capital firm, from February 2015 to February 2016. Dr. Bhagat also served as a research assistant at The Rockefeller University from May 2008 to May 2010 and a clinical research coordinator at Massachusetts General Hospital from June 2007 to May 2008. Dr. Bhagat received a B.A. in biological psychology from Franklin & Marshall College and a Ph.D. in neuroscience from Yale University. We believe Dr. Bhagat's extensive industry experience and her scientific background qualifies her to serve on our board of directors.

Reinaldo M. Diaz, age 68, has served on our board of directors since January 2017. Mr. Diaz has served as venture partner at Longitude Capital Management Co., LLC, a venture capital firm focusing on healthcare companies, since November 2015. Mr. Diaz has served as the managing member and managing director of DA Advisors, LLC, a financial and strategic consulting company focusing on biopharmaceutical companies, since 2005. Mr. Diaz served as a managing director at Auven Therapeutics, a private equity firm focusing on life sciences from 2008 to 2018. Mr. Diaz served as managing member and co-founder of Diaz & Altschul Capital Management, LLC, an asset management firm focusing on healthcare companies, from 1996 to 2005. Mr. Diaz served as managing director and head of the healthcare group at Schroder Wertheim & Co., Inc. from 1993 to 1996. Mr. Diaz served in various roles at PaineWebber Development Corporation from 1985 to 1993, including as president from 1990 to 1993. Mr. Diaz received a B.A. in general studies from Harvard University and an M.B.A. from Harvard Business School. We believe Mr. Diaz's extensive experience as a venture capital investor in the life sciences industry qualifies him to serve on our board of directors.

The board of directors recommends voting "FOR" the election of Sarah Bhagat and Reinaldo Diaz as Class II directors for a three-year term ending at the annual meeting of stockholders to be held in 2025.

Directors Continuing in Office

Biographical information as of March 31, 2022, including principal occupation and business experience during the last five years, for our directors continuing in office after the Annual Meeting is set forth below.

Class I Directors (Term Expires at 2024 Annual Meeting of Stockholders)

Axel Bolte, age 50, has served as our president and chief executive officer and as a member of our board of directors since September 2015, when he co-founded our company. Since March 2017, Mr. Bolte also has served as a managing member of Healthcare Advisors GmbH, a private healthcare advisory company. Mr. Bolte served as a venture partner at HBM Partners AG, a provider of investment advisor services in the life sciences industry, from February 2017 to September 2019 and as an investment advisor to HBM Partners AG from March 2003 to January 2017. Mr. Bolte currently serves on the board of directors of IVERIC bio, Inc. (formerly known as Ophthotech Corporation), or IVERIC, and previously served on the board of directors of Allena Pharmaceuticals, Inc., Nabriva Therapeutics plc and PTC Therapeutics, Inc., all of which are publicly traded biotechnology or pharmaceutical companies. Mr. Bolte received a degree in biochemistry from the Swiss Federal Institute of Technology, Zurich, Switzerland and an M.B.A. from the University of St. Gallen, Switzerland. We believe Mr. Bolte's extensive experience as a venture capital investor in the life sciences industry and his extensive knowledge of our company based on his current role as our chief executive officer qualify him to serve on our board of directors.

Robert Hopfner, Ph.D., age 49, has served on our board of directors since November 2018. Dr. Hopfner has served as managing partner of Pivotal bioVenture Partners, a venture capital firm focused on life sciences, since October 2017. Dr. Hopfner served in various roles at Bay City Capital, a venture capital firm focused on life sciences, from August 2002 to October 2017, including as a principal from June 2007 to October 2009 and as managing director and investment partner from October 2009 to October 2017. Dr. Hopfner currently serves on the board of directors of RallyBio Corporation and previously served on the board of directors of Hyperion Therapeutics and Vaxcyte, Inc., both publicly traded biotechnology companies. Dr. Hopfner received a B.S. in pharmacy from the University of Saskatchewan, an M.B.A. from the University of Chicago Booth School of Business and a Ph.D. in pharmacology from the University of Saskatchewan. We believe Dr. Hopfner's experience as a venture capital investor in the life sciences industry and his scientific background qualifies him to serve on our board of directors.

Edward Mathers, age 62, has served on our board of directors since January 2017. Mr. Mathers has served as a general partner at New Enterprise Associates, Inc., or NEA, a private venture capital firm focusing on technology and healthcare investments, since November 2019. He served as partner at NEA from August 2008 to October

2019. Prior to joining NEA, Mr. Mathers served as executive vice president, corporate development and venture at MedImmune, Inc., or MedImmune, a biopharmaceutical company, and led its venture capital subsidiary, MedImmune Ventures, Inc. Mr. Mathers currently serves on the board of directors of Akouos, Inc., ObsEva SA, Rhythm Pharmaceuticals, Inc., Synlogic, Inc. (formerly known as Mirna Therapeutics, Inc.), Trevi Therapeutics, Inc., Mirum Pharmaceuticals, Inc., and Reneo Pharmaceuticals, Inc., all publicly traded pharmaceutical companies, and he previously served on the board of directors of Liquidia Technologies, Inc., a publicly traded life sciences company, from April 2009 to May 2019 and Ra Pharma, a publicly-traded pharmaceutical company, from February 2010 to April 2020. Mr. Mathers received a B.S. in chemistry from North Carolina State University. We believe Mr. Mathers is qualified to serve on our board of directors based on his experience advising pharmaceutical companies as well as his experience as a director of public and private companies in the life sciences industry.

Class III Directors (Term Expires at 2023 Annual Meeting of Stockholders)

Martin Edwards, M.D., age 66, has served on our board of directors since September 2017. From 2003 to September 2020, Dr. Edwards served as a senior partner at Novo Holdings A/S, a Danish limited liability company that manages investments and financial assets. Earlier in his career, Dr. Edwards served as chief executive officer of ReNeuron Ltd., a stem cell research company based in the United Kingdom, and as global head of drug development for Novo Nordisk A/S, where he led both preclinical and clinical drug development. Dr. Edwards currently serves on the board of directors of KalVista Pharmaceuticals, Inc., Reata Pharmaceuticals Inc., Morphic Holding, Inc., and Verona Pharma plc, all publicly traded pharmaceutical companies, and previously served on the board of directors of CoLucid Pharmaceuticals, Inc., a publicly traded pharmaceutical company, from January 2015 to March 2017. Dr. Edwards received an M.B.A. from the University of Warwick in England and degrees in medicine and physiology from the University of Manchester in England. We believe Dr. Edwards is qualified to serve on our board of directors based on his medical background and extensive experience as an investor and executive in the pharmaceutical industry.

Lynne Sullivan, age 56, has served on our board of directors since May 2020. Ms. Sullivan has served as chief financial officer of UNITY Biotechnology, Inc., a biotechnology company since September 2020. Ms. Sullivan served as chief financial officer of Compass Therapeutics, LLC, a biotechnology company, from December 2018 to August 2019. Ms. Sullivan served in various roles at Biogen Inc., a biotechnology company, including vice president of tax from April 2008 to February 2015, vice president of tax and corporate finance from February 2015 to March 2016 and senior vice president of finance from March 2016 to December 2018. Ms. Sullivan currently serves on the board of directors of Solid Biosciences Inc. and BiomX Inc., both publicly traded biopharmaceutical companies. Ms. Sullivan was a certified public accountant for over 25 years. Ms. Sullivan received a B.S.B.A. in accounting from Suffolk University and an M.S. in taxation from Bentley University. We believe Ms. Sullivan's extensive financial expertise and her experience working in the healthcare sector qualifies her to serve on our board of directors.

Douglas Treco, Ph.D., age 64, has served as the chairman of our board of directors since May 2020. From April 2021 to April 2022, Dr. Treco was chief executive officer of Alchemab Therapeutics, a biopharmaceutical company. Dr. Treco co-founded Ra Pharmaceuticals, Inc., or Ra Pharma, a pharmaceutical company, in 2008, which was acquired by UCB S.A. in April 2020. He served as the president and chief executive officer of Ra Pharma from June 2008 to July 2020. Dr. Treco served as an entrepreneur-in-residence with Morgenthaler Ventures, a venture capital firm, from January 2008 to May 2014. Dr. Treco served as a visiting scientist in the Department of Molecular Biology at Massachusetts General Hospital and as a lecturer in genetics at Harvard Medical School from 2004 to 2007. Dr. Treco currently serves on the board of directors of CRISPR Therapeutics AG and is a scientific advisor to Lightstone Ventures. Dr. Treco served on the board of directors of Ra Pharma from June 2008 to April 2020 and the board of director of Alchemab Therapeutics from April 2021 to April 2022. Dr. Treco received a B.A. in Biology from the University of Delaware and a Ph.D. in biochemistry and molecular biology from the State University of New York, Stony Brook, and performed post-doctoral research at the Salk Institute for Biological Studies and Massachusetts General Hospital. We believe Dr. Treco's extensive

and broad range of experience in business and in the biopharmaceutical industry qualifies him to serve on our board of directors.

Executive Officers Who Are Not Directors

Biographical information as of March 31, 2022 for our executive officers who are not directors is listed below.

Henric Bjarke, age 55, has served as our senior vice president and chief operating officer since July 2017. Prior to joining our company, Mr. Bjarke served as senior vice president, chief commercial officer of IVERIC from September 2015 to April 2017. Mr. Bjarke served as vice president, global metabolic disorders franchise of Alexion from November 2012 to August 2015 and as vice president, North America commercial operations of Alexion from September 2010 to November 2012. Prior to joining Alexion, Mr. Bjarke served in various commercial roles at Watson Pharmaceuticals, Eyetech Pharmaceuticals, Inc. and Pharmacia Corporation. Mr. Bjarke received a B.A. Sc. in business administration and economics from Uppsala University in Sweden.

Sanjay S. Subramanian, age 46, has served as our chief financial officer since March 2022. Prior to joining our company, Mr. Subramanian served as the chief financial officer at Ocugen, Inc., a biotechnology company, or Ocugen, from October 2019 to March 2022, as the corporate secretary at Ocugen from June 2020 to March 2022 and as head of corporate development at Ocugen from January 2021 to March 2022. Prior to joining Ocugen, Mr. Subramanian worked at Aralez Pharmaceuticals Inc., a specialty pharmaceutical company, or Aralez, where he served as chief financial officer from January 2019 through September 2019, and as vice president and treasurer from October 2015 to January 2019. Prior to joining Aralez, Mr. Subramanian served as the director of treasury at Bausch Health Companies, Inc. (formerly known as Valeant Pharmaceuticals), a specialty pharmaceutical company, from 2013 to October 2015. Prior to joining Bausch Health, Mr. Subramanian joined the finance leadership rotation program in 2008 at General Motors Company, or GM, where he held various positions before ending as the treasurer of GM Korea in 2012. Mr. Subramanian received an M.B.A. from MIT Sloan School of Management, a Master of Science from both the Massachusetts Institute of Technology and The Ohio State University and a Bachelor of Technology from Indian Institute of Technology.

There is no arrangement or understanding between any of our executive officers or directors and any other person or persons pursuant to which he or she was or is to be selected as an executive officer or director.

PROPOSAL NO. 2—RATIFICATION OF THE APPOINTMENT OF ERNST & YOUNG LLP AS OUR INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM FOR THE FISCAL YEAR ENDING DECEMBER 31, 2022

Our stockholders are being asked to ratify the appointment by the audit committee of the board of directors of Ernst & Young LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2022. Ernst & Young LLP has served as our independent registered public accounting firm since 2017.

The audit committee is solely responsible for selecting our independent registered public accounting firm for the fiscal year ending December 31, 2022. Stockholder approval is not required to appoint Ernst & Young LLP as our independent registered public accounting firm. However, the board of directors believes that submitting the appointment of Ernst & Young LLP to the stockholders for ratification is good corporate governance. If the stockholders do not ratify this appointment, the audit committee will reconsider whether to retain Ernst & Young LLP. If the selection of Ernst & Young LLP is ratified, the audit committee, in its discretion, may direct the appointment of a different independent registered public accounting firm at any time it decides that such a change would be in the best interest of our company and our stockholders.

A representative of Ernst & Young LLP is expected to virtually attend the Annual Meeting and will have an opportunity to make a statement if he or she desires to do so and is expected to be available to respond to appropriate questions from our stockholders.

We incurred the following fees from Ernst & Young LLP for the audit of the consolidated financial statements and for other services provided during the years ended December 31, 2021 and 2020.

	2021	2020
Audit fees (1)	\$ 537,000	\$ 1,373,000
Audit-Related fees	—	_
Tax fees (2)	103,000	48,000
All other fees (3)	5,000	_
Total fees	\$ 645,000	\$ 1,421,000

(1) "Audit fees" consist of fees for the audit of our annual financial statements, the review of the interim financial statements included in our quarterly reports on Form 10-Q, and other professional services provided in connection with financings, regulatory filings, or engagements.

(2) "Tax fees" consist of fees for professional services, including tax compliance, tax advice and tax planning.

(3) "All other fees" consist of fees paid to access Ernst & Young LLP publications and on-line subscriptions/content.

Audit Committee Pre-Approval Policy and Procedures

Our audit committee has adopted policies and procedures relating to the approval of all audit and non-audit services that are to be performed by our independent registered public accounting firm. This policy provides that we will not engage our independent registered public accounting firm to render audit or non-audit services unless the service is specifically approved in advance by our audit committee or the engagement to render the service is entered into pursuant to the audit committee's pre-approval procedure described below.

From time to time, our audit committee may pre-approve specified types of services that are expected to be provided to us by our independent registered public accounting firm during the next 12 months. At the time such pre-approval is granted, the audit committee must identify the particular pre-approved services in a sufficient

level of detail so that our management will not be called upon to make a judgment as to whether a proposed service fits within the pre-approved services and, at each regularly scheduled meeting of the audit committee following such pre-approval, management or the independent registered public accounting firm shall report to the audit committee regarding each service actually provided to us pursuant to such pre-approval.

During our 2021 and 2020 fiscal years, no services were provided to us by Ernst & Young LLP other than in accordance with the pre-approval policies and procedures described above.

The board of directors recommends voting "FOR" Proposal No. 2 to ratify the appointment of Ernst & Young LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2022.

CORPORATE GOVERNANCE

Director Nomination Process

Our nominating and corporate governance committee is responsible for identifying individuals qualified to serve as directors, consistent with criteria approved by our board of directors, and recommending the persons to be nominated for election as directors, except where we are legally required by contract, law or otherwise to provide third parties with the right to nominate director candidates.

The process followed by our nominating and corporate governance committee to identify and evaluate director candidates includes requests to board members and others for recommendations, meetings from time to time to evaluate biographical information and background material relating to potential candidates and interviews of selected candidates by members of the committee and our board of directors. While there are no specific minimum qualifications for a committee-recommended nominee to our board of directors, the qualifications, qualities and skills that our nominating and corporate governance committee believes must be met by a committee-recommended nominee for a position on our board of directors are as follows:

- Nominees should have a reputation for integrity, honesty and adherence to high ethical standards.
- Nominees should have demonstrated business acumen, experience and ability to exercise sound judgments in matters that relate to our current and long-term objectives and should be willing and able to contribute positively to our decision-making process.
- Nominees should have a commitment to understand our company and our industry and to regularly attend and participate in meetings of our board of directors and its committees.
- Nominees should have the interest and ability to understand the sometimes-conflicting interests of our various constituencies, which
 include stockholders, employees, customers, governmental units, creditors and the general public, and to act in the interests of all
 stockholders.
- Nominees should not have, nor appear to have, a conflict of interest that would impair the nominee's ability to represent the interests of all of our stockholders and to fulfill the responsibilities of a director.
- The value of diversity on the board of directors should be considered. Nominees should represent a diverse array of personal and professional characteristics, including, for example, gender, racial or ethnic identity, sexual identity, age, academic background, professional experience in the United States or internationally and/or expertise in a particular discipline or field. Nominees will not be discriminated against on the basis of gender, race, ethnicity, national origin, sex, sexual orientation, sexual identity, religion, disability or any other basis proscribed by law.
- Nominees should normally be able to serve for at least five years before reaching the age of 75.

The nominating and corporate governance committee may use a third-party search firm in those situations where particular qualifications are required or where existing contacts are not sufficient to identify an appropriate candidate.

Stockholders may recommend individuals to the nominating and corporate governance committee for consideration as potential director candidates. Any such proposals should be submitted to our corporate secretary at our principal executive offices and should include appropriate biographical and background material to allow the nominating and corporate governance committee to properly evaluate the potential director candidate and the number of shares of our stock beneficially owned by the stockholder proposing the candidate.

Assuming that biographical and background material has been provided on a timely basis, any recommendations received from stockholders will be evaluated in the same manner as potential nominees proposed by the nominating and corporate governance committee. If our board of directors decides to nominate a stockholder-recommended candidate and recommends his or her election, then his or her name will be included on our proxy card for the next annual meeting.

Board Diversity Matrix

Board Diversity Matrix (As of April 27, 2022)					
Total Number of Directors		8			
	Female	Male	Non-Binary	Did Not Disclose Gender	
Part I: Gender Identity					
Directors	2	6			
Part II: Demographic Background	· ·				
African American or Black	—	—		_	
Alaskan Native or Native American		—		_	
Asian	—	—		_	
Hispanic or Latinx	—	1	—	_	
Native Hawaiian or Pacific Islander	—	—		_	
White	1	5		_	
Two or More Races or Ethnicities	1	_			
LGBTQ+			_		
Did Not Disclose Demographic Background	—				

Director Independence

Applicable Nasdaq rules require a majority of a listed company's board of directors to be comprised of independent directors within one year of listing. In addition, Nasdaq rules require that, subject to specified exceptions, each member of a listed company's audit, compensation and nominating and corporate governance committees be independent. Audit committee members must also satisfy the independence criteria set forth in Rule 10A-3 under the Securities Exchange Act of 1934, as amended, or the Exchange Act, and compensation committee members must also satisfy the independent director" if, among other things, in the opinion of the listed company's board of directors, that person does not have a relationship that would interfere with the exercise of independent in carrying out the responsibilities of a director. In order to be considered independent for purposes of Rule 10A-3, a member of an audit committee of a listed company may not, other than in his or her capacity as a member of the audit committee, the board of directors, or any other board committee, accept, directly or indirectly, any consulting, advisory, or other compensatory fee from the listed company or any of its subsidiaries or otherwise be an affiliated person of the listed company or any of its subsidiaries. In order to be considered independent for purposes of Rule 10C-1, the board of directors must consider, for each member of a compensation committee of a listed company, all factors specifically relevant to determining whether a director has a relationship to such company which is material to that director's ability to be independent from management in connection with the duties of a compensation committee member, including, but not limited to: (1) the source of compensation of the director, including any consulting advisory or other compensation of the director is affiliated with the company or any of its subsidiaries or affiliated with the company or any of its subsidiaries or affiliates.

In March 2022, our board of directors undertook a review of the independence of each director. Based upon information requested from and provided by each director concerning his or her background, employment and affiliations, including family relationships, our board of directors has determined that each of our directors, with the exception of Mr. Bolte, is an "independent director" as defined under applicable Nasdaq rules, including, in the case of all the members of our audit committee, the independence criteria set forth in Rule 10A-3 under the Exchange Act, and in the case of all the members of our compensation committee, the independence criteria set forth in Rule 10C-1 under the Exchange Act. In making such determination, our board of directors considered the relationships that each such non-employee director has with our company and all other facts and circumstances that our board of directors deemed relevant in determining his or her independence, including the beneficial

ownership of our capital stock by each non-employee director. Mr. Bolte is not an independent director under these rules because he is our president and chief executive officer.

There are no family relationships among any of our directors or executive officers.

Board Committees

Our board of directors has established an audit committee, a compensation committee and a nominating and corporate governance committee. Each of the audit committee, compensation committee and nominating and corporate governance committee operates under a charter, and each such committee reviews its respective charter at least annually. A current copy of the charter for each of the audit committee, the compensation committee and the nominating and corporate governance committee is posted on the "Governance" section of the "Investor Relations" section of our website, which is located at www.inozyme.com. Our board of directors may also appoint from time to time ad hoc committees to address specific matters.

Audit Committee

The members of our audit committee are Lynne Sullivan, Sarah Bhagat and Martin Edwards. Ms. Sullivan serves as chair of the audit committee. Our audit committee met four times during 2021. Our audit committee's responsibilities include:

- appointing, approving the compensation of, and assessing the independence of our registered public accounting firm;
- overseeing the work of our independent registered public accounting firm, including through the receipt and consideration of reports from that firm;
- reviewing and discussing with management and our independent registered public accounting firm our annual and quarterly financial statements and related disclosures;
- monitoring our internal control over financial reporting, disclosure controls and procedures and code of business conduct and ethics;
- overseeing our risk assessment and risk management policies;
- establishing procedures for the receipt and retention of accounting related complaints and concerns;
- meeting independently with our internal auditing staff, if any, our independent registered public accounting firm and management;
- reviewing and approving or ratifying any related person transactions; and
- preparing the audit committee report required by SEC rules.

All audit and non-audit services, other than *de minimis* non-audit services, to be provided to us by our independent registered public accounting firm must be approved in advance by our audit committee.

Our board of directors has determined that Lynne Sullivan is an "audit committee financial expert" as defined in applicable SEC rules and that each of the members of our audit committee possesses the financial sophistication required for audit committee members under Nasdaq rules. We believe that the composition of our audit committee meets the requirements for independence under current Nasdaq and SEC rules and regulations.

Compensation Committee

The members of our compensation committee are Reinaldo Diaz, Robert Hopfner and Edward Mathers. Mr. Diaz serves as chair of the compensation committee. Our compensation committee met eight times during 2021. Our compensation committee's responsibilities include:

reviewing and approving, or making recommendations to our board of directors with respect to, the compensation of our chief executive
officer and our other executive officers;



- overseeing an evaluation of our senior executives;
- overseeing and administering our cash and equity incentive plans;
- reviewing and making recommendations to our board of directors with respect to director compensation;
- reviewing and discussing annually with management our "Compensation Discussion and Analysis" disclosure if and to the extent then required by SEC rules; and
- preparing the compensation committee report if and to the extent then required by SEC rules.

Under its charter, the compensation committee may form, and delegate authority to, subcommittees, consisting of independent directors, as it deems appropriate. During 2021, the compensation committee did not form or delegate authority to such subcommittees.

In addition, under its charter, the compensation committee may delegate to one or more executive officers the power to grant options or other stock awards pursuant to its 2020 Stock Incentive Plan to employees who are not directors or executive officers of our company. During 2021, the compensation committee delegated such authority to grant stock options to Mr. Bolte.

We believe that the composition of our compensation committee meets the requirements for independence under current Nasdaq and SEC rules and regulations.

Nominating and Corporate Governance Committee

The members of our nominating and corporate governance committee are Douglas Treco, Martin Edwards and Edward Mathers. Mr. Treco serves as chair of the nominating and corporate governance committee. Our nominating and corporate governance committee's responsibilities include:

- recommending to our board of directors the persons to be nominated for election as directors and to each of our board's committees;
- reviewing and making recommendations to our board of directors with respect to our board leadership structure;
- reviewing and making recommendations to our board of directors with respect to management succession planning;
- · developing and recommending to our board of directors corporate governance guidelines; and
- overseeing a periodic evaluation of our board of directors.

We believe that the composition of our nominating and corporate governance committee meets the requirements for independence under current Nasdaq and SEC rules and regulations.

Compensation Committee Interlocks and Insider Participation

During 2021, the members of our compensation committee were Reinaldo Diaz, Robert Hopfner and Edward Mathers. None of our executive officers serves, or in the past year has served, as a member of the board of directors or compensation committee, or other committee serving an equivalent function, of any other entity that has one or more of its executive officers serving as a member of our board of directors or our compensation committee. None of the current members, or members serving during 2021, of our compensation committee is, or has ever been, an officer or employee of our company.

Board of Director Meetings and Attendance

Our board of directors recognizes the importance of director attendance at board and committee meetings. The full board of directors met four times during 2021. During 2021, each member of the board of directors attended in person or participated in 75% or more of the aggregate of (i) the total number of meetings held by the board of directors (during the period that such person served as a director) and (ii) the total number of meetings held by all committees of the board of directors on which such person served (during the periods that such person served).

Director Attendance at Annual Meeting of Stockholders

Our corporate governance guidelines provide that directors are responsible for attending the annual meeting of stockholders. Five of our then-serving directors attended our 2021 annual meeting of stockholders.

Code of Business Conduct and Ethics

We have adopted a written code of business conduct and ethics that applies to our directors, officers and employees, including our principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions. We have posted a current copy of the code on the "Governance" section of the "Investor Relations" section of our website, which is located at www.inozyme.com. In addition, we intend to post on our website all disclosures that are required by law or Nasdaq listing standards concerning any amendments to, or waivers from, any provision of the code.

Corporate Governance Guidelines

Our board of directors has adopted corporate governance guidelines to assist the board of directors in the exercise of its duties and responsibilities and to serve the best interests of our company and our stockholders. These guidelines provide that:

- the principal responsibility of our board of directors is to oversee our management;
- a majority of the members of the board of directors must be independent directors, unless otherwise permitted by Nasdaq rules;
- the independent directors meet in executive session at least twice a year;
- directors have full and free access to management and, as necessary, independent advisors;
- new directors participate in an orientation program and all directors are expected to participate in continuing director education on an ongoing basis; and
- our nominating and corporate governance committee will oversee a periodic self-evaluation of the board of directors to determine whether it and its committees are functioning effectively.

A copy of the corporate governance guidelines is available on the "Governance" section of the "Investor Relations" section of our website, which is located at www.inozyme.com.

Board Leadership Structure and Oversight of Risk

Our corporate governance guidelines provide that the nominating and corporate governance committee shall periodically assess the board of directors' leadership structure, including whether the offices of chief executive

officer and chairman of the board of directors should be separate. Our guidelines provide the board of directors with flexibility to determine whether the two roles should be combined or separated based upon our needs and the board of directors' assessment of its leadership from time to time. We do not currently have a lead independent director because the chairman of our board of directors is independent within the meaning of the Nasdaq listing rules.

We currently separate the roles of chief executive officer and chairman of the board of directors. Our president and chief executive officer is responsible for setting the strategic direction for our company and the day-to-day leadership and performance of our company, while the chairman of our board of directors presides over meetings of the board of directors, including executive sessions of the board of directors, and performs oversight responsibilities. Separating the duties of the chairman to lead the board of directors in its fundamental role of providing advice to and independent oversight of management. Specifically, our chairman runs meetings of our independent directors believes that this structure ensures a greater role for the independent directors in setting agendas and establishing priorities and procedures for the work of our board of directors. Our board of directors believes its administration of its risk oversight function has not affected its leadership structure. Our board of directors believes that we have an appropriate leadership structure for us at this time which demonstrates our commitment to good corporate governance. Although the roles of chairman and chief executive officer are currently separate, our nominating and corporate governance committee and board of directors believe it is appropriate for our chief executive officer to serve as a member of our board of directors.

Risk is inherent with every business and how well a business manages risk can ultimately determine its success. We face a number of risks, including those described under "Risk Factors" in our annual report on Form 10-K for the year ended December 31, 2021. Our board of directors is actively involved in oversight of risks that could affect us. Our board of directors oversees our risk management processes directly and through its committees. Our management is responsible for risk management on a day-to-day basis and our board of directors and its committees oversee the risk management activities of management. Our board of directors satisfies this responsibility through full reports by each committee chair regarding the committee's considerations and actions, as well as through regular reports directly from officers responsible for oversight of particular risks within our company. Our audit committee oversees risk management activities relating to our compensation policies and practices. Our nominating and corporate governance committee oversees risk management activities relating to board composition and management succession planning. In addition, members of our senior management team attend our quarterly board meetings and are available to address any questions or concerns raised by the board on risk management and any other matters. Our board of directors believes that full and open communication between management and the board of directors is essential for effective risk management and oversight.

Communication with Our Directors

Any interested party with concerns about our company may report such concerns to the board of directors, or the chairman of our board of directors, or otherwise the chair of the nominating and corporate governance committee, by submitting a written communication to the attention of such director at the following address:

Inozyme Pharma, Inc. 321 Summer Street, Suite 400 Boston, Massachusetts 02210 Attention: Board of Directors

You may submit your concern anonymously or confidentially by postal mail. You may also indicate whether you are a stockholder, customer, supplier, or other interested party.

A copy of any such written communication may also be forwarded to our legal counsel and a copy of such communication may be retained for a reasonable period of time. The director may discuss the matter with our legal counsel, with independent advisors, with non-management directors, or with our management, or may take other action or no action as the director determines in good faith, using reasonable judgment, and discretion.

Communications may be forwarded to all directors if they relate to important substantive matters and include suggestions or comments that may be important for the directors to know. In general, communications relating to corporate governance and long-term corporate strategy are more likely to be forwarded than communications relating to ordinary business affairs, personal grievances, and matters as to which we tend to receive repetitive or duplicative communications.

The audit committee oversees the procedures for the receipt, retention, and treatment of complaints received by us regarding accounting, internal accounting controls, or auditing matters, and the confidential, anonymous submission by our employees of concerns regarding questionable accounting or auditing matters. Concerns regarding questionable accounting or auditing matters or complaints regarding accounting, internal accounting controls or auditing matters may be confidentially, and anonymously if they wish, submitted in writing online at https://www.whistleblowerservices.com/inozyme or to our general counsel (or, if none, our principal executive officer or principal financial officer) at 321 Summer Street, Suite 400, Boston, Massachusetts 02210 or via the toll-free telephone number 877-250-2118.

EXECUTIVE AND DIRECTOR COMPENSATION

This section describes the material elements of compensation awarded to, earned by or paid to each of our named executive officers for 2021. Our named executive officers for 2021 were Axel Bolte, Henric Bjarke, Steven Jungles and Deborah Wenkert. Mr. Jungles resigned as our chief technical operations officer in February 2022. Dr. Wenkert resigned as our chief medical officer in November 2021.

This section also describes the material elements of compensation awarded to, earned by or paid to each of our non-employee directors.

This section provides qualitative information regarding the manner and context in which compensation is awarded to and earned by our executive officers and is intended to place in perspective the data presented in the tables and narrative that follow.

Executive and Director Compensation Processes

Our executive compensation program is administered by the compensation committee of our board of directors, subject to the oversight and approval of our board of directors. Our compensation committee reviews our executive compensation practices on an annual basis and based on this review approves, or, as appropriate, makes recommendations to our board of directors for approval of, our executive compensation program.

Our director compensation program is administered by our board of directors based on recommendations by the compensation committee. We anticipate that the compensation committee will conduct future annual reviews of director compensation and make recommendations to the board of directors with respect thereto.

In designing our executive compensation program and our director compensation program, our compensation committee considers compensation data for national and regional companies in the biotechnology and the biopharmaceutical industry provided by our independent compensation consultant, Radford, an AON Hewitt Company.

During 2021, our compensation committee retained Radford to advise the compensation committee on our compensation program for executive officers, which includes base salaries, annual performance-based cash bonuses, annual equity incentive awards and severance arrangements, and on the director compensation program, which includes board and committee fee retainers and equity awards. The compensation committee, with the assistance of Radford, established a peer group. Radford made recommendations with respect to the amount and form of executive officer and director compensation. Although our compensation committee considers the advice and guidance of Radford as to our executive compensation program and our director compensation program, our compensation committee ultimately makes its own decisions about these matters. In the future, we expect that our compensation committee will continue to engage independent compensation consultants to provide additional guidance on our executive compensation programs and director compensation programs and to conduct further competitive benchmarking against a peer group of publicly traded companies.

The compensation committee reviewed information regarding the independence and potential conflicts of interest of Radford, taking into account, among other things, the factors set forth in the Nasdaq listing standards. Based on such review, the compensation committee concluded that the engagement of Radford did not raise any conflict of interest.

Summary Compensation Table

The following table sets forth information regarding compensation awarded to, earned by or paid to each of our named executive officers for the years ended December 31, 2021 and 2020.

			Option	Non-Equity Incentive Plan	All Other	- ·
Name and Principal Position	Year	Salary (\$)	Awards (\$)(1)	Compensation (\$)(2)	Compensation (\$)	Total (\$)
Axel Bolte	2021	544,205	1,734,309	250,960	94,499(3)	2,623,972
President and Chief Executive Officer	2020	440,099(4)	4,584,236	290,466	40,833(3)	5,355,634
Henric Bjarke	2021	440,955	755,981	149,925	6,798(5)	1,353,659
Senior Vice President and Chief Operating Officer	2020	389,782	506,970	187,095	—	1,083,847
Steven Jungles(6)	2021	395,818	622,572	135,235	—	1,153,625
Former Senior Vice President and Chief Technical						
Operations Officer	—		—	—	—	—
Deborah Wenkert(7)	2021	361,106	1,891,259	—	109,918(8)	2,362,283
Former Senior Vice President and Former Chief Medical						
Officer	_		_		—	_

(1) The amounts reported in the "Option Awards" column reflect the grant date fair value of stock options awarded during the year computed in accordance with the provisions of Financial Accounting Standard Board, or FASB, Accounting Standards Codification, or ASC, Topic 718. See Note 8 to our consolidated financial statements appearing in our Annual Report on Form 10-K, which was filed with the SEC on March 15, 2022. These amounts reflect the accounting cost for the stock options and do not reflect the actual economic value that may be realized by the named executive officer upon the vesting of the stock options, the exercise of the stock options or the sale of the common stock underlying such stock options.

- (2) The amounts reported in the "Non-Equity Incentive Plan Compensation" column reflect annual cash bonuses paid to our named executive officers for their performance in 2021 and 2020.
- (3) Represents amounts paid to Mr. Bolte for the purchase of health insurance, disability insurance and other benefits in Switzerland that are similar to a 401(k) plan.
- (4) Consists of (i) base compensation paid by us under our former consulting agreement with Healthcare Advisors GmbH, of which Mr. Bolte is the manager, and through which Mr. Bolte provided services to us as our president and chief executive officer and (ii) salary earned under an employment agreement entered into on July 23, 2020 with Mr. Bolte.
- (5) Represents matching contributions made by us to such named executive officer's 401(k) plan.
- (6) Mr. Jungles resigned as our chief technical operations officer in February 2022.
- (7) Dr. Wenkert resigned as our chief medical officer in November 2021.
- (8) Consists of (i) \$42,513 in fees for consulting services performed by Dr. Wenkert in 2021 before and after her employment with us pursuant a consulting agreement with Wenkert & Young LLC, (ii) \$58,161 in severance payments made to Dr. Wenkert pursuant to a separation agreement entered into with us in November 2021 in connection with her resignation as chief medical officer and (iii) \$9,244 in matching contributions made by us to Dr. Wenkert's 401(k) plan. For a description of the consulting agreement and the separation agreement, see the sections entitled "Consulting Agreement with Deborah Wenkert" and "Separation Agreement with Deborah Wenkert" below.

Narrative to Summary Compensation Table

Base Compensation. We use base compensation or salaries to recognize the experience, skills, knowledge and responsibilities required of our executive officers. None of our executive officers is currently party to an employment agreement or other agreement or arrangement that provides for automatic or scheduled increases in base compensation or salary.

Effective March 1, 2021, our compensation committee increased Mr. Bolte's annual base salary from \$525,000 to \$540,750, increased Mr. Bjarke's annual base salary from \$430,000 to \$443,106 and increased Mr. Jungles' annual base salary from \$386,000 to \$397,749. In February 2021, our compensation committee set Dr. Wenkert's salary at \$435,000 in connection with the commencement of her employment as our chief medical officer.

Effective March 1, 2022, our compensation committee set Mr. Bolte's and Mr. Bjarke's annual base salary at \$559,676 and \$458,615, respectively.

Annual Bonus. From time to time, our board of directors or our compensation committee has approved annual cash bonuses to our executive officers with respect to their prior year performance. Our executive officers are eligible for annual performance-based bonuses up to a specified percentage of their base salary, subject to approval by our board of directors or the compensation committee. Performance-based bonuses, which are calculated as a percentage of base salary, are designed to motivate our executive officers to achieve annual goals based on our strategic, financial and operating performance objectives.

The 2021 target bonus amounts, expressed as a percentage of 2021 base salary, were 55% for Mr. Bolte and 40% for each of Mr. Bjarke and Mr. Jungles.

For 2021, bonuses were based on corporate objectives relating to regulatory and clinical progress and development for INZ-701, manufacturing activities, and financing. With respect to 2021 performance, our compensation committee reviewed performance against the 2021 corporate goals and determined that the corporate goals were achieved at 85% for the executive officers. The compensation committee approved 2021 cash bonuses of \$250,960 for Mr. Bolte, \$149,925 for Mr. Bjarke and \$135,235 for Mr. Jungles, which amounts represented approximately 85% of each such officer's target bonus amount. Dr. Wenkert was not entitled to receive a cash bonus for 2021.

Equity Incentives. Although we do not have a formal policy with respect to the grant of equity incentive awards to our executive officers, or any formal equity ownership guidelines applicable to them, we believe that equity grants provide our executive officers with a strong link to our long-term performance, create an ownership culture and help to align the interests of our executive officers and our stockholders. In addition, we believe that equity grants with a time-based vesting feature promote executive officer retention, because this feature incentivizes our executive officers to remain in our employment during the vesting period. Accordingly, our board of directors or our compensation committee periodically reviews the equity incentive compensation of our executive officers and from time to time may grant equity incentive awards to them in the form of stock options.

In February 2021, in connection with the commencement of Dr. Wenkert's employment as our chief medical officer, we granted Dr. Wenkert an option to purchase 100,000 shares of our common stock, at an exercise price per share of \$22.61. The option vests with respect to 25% of the shares underlying the option on the first anniversary of the vesting commencement date and as to an additional 2.0833% of the original number of shares underlying the option monthly thereafter through February 2, 2025.

In March 2021, we granted options to purchase 117,000, 51,000 and 42,000 shares of our common stock to Mr. Bolte, Mr. Bjarke and Mr. Jungles, respectively, at an exercise price per share of \$19.78. Such options vest in equal monthly installments over a term of four years from the vesting commencement date of March 4, 2021.

In February 2022, we granted options to purchase 275,000 and 115,000 shares of our common stock to Mr. Bolte and Mr. Bjarke, respectively, at an exercise price per share of \$5.78. Such options vest in equal monthly installments over a term of four years from the vesting commencement date of February 24, 2022.

Prior to our initial public offering, our executive officers were eligible to participate in our Amended and Restated 2017 Equity Incentive Plan, as amended to date, or the 2017 Plan, and all options were granted pursuant to the 2017 Plan, other than the stock option grants that were effective upon the effectiveness of the registration statement for our initial public offering in July 2020, which were granted pursuant to our 2020 Stock Incentive Plan, or the 2020 Plan. Following the closing of our initial public offering, our employees and executive officers became eligible to receive stock options and other stock-based awards pursuant to our 2020 Plan. For a description of our 2017 Plan and our 2020 Plan, see "—Stock Option and Other Compensation Plans" below.

We use stock options to compensate our executive officers in the form of initial grants in connection with the commencement of employment and also at various times, often but not necessarily annually, if we or they have performed as expected or better than expected. None of our executive officers is currently party to an employment agreement that provides for the automatic award of stock options. We have granted option awards to our executive officers with time-based vesting and performance-based vesting. The option awards that we have granted to our executive officers in connection with commencement of employment typically become exercisable as to 25% of the shares underlying the option on the first anniversary of the vesting commencement date and as to an additional 2.0833% of the original number of shares underlying the option monthly thereafter. The option awards that we have granted to our executive officers at times other than in connection with employment typically become exercisable in equal monthly installments over a term of four years from the applicable vesting commencement date. Vesting rights cease upon termination of employment and exercise rights for previously vested stock options cease shortly after termination, though exercisability is extended in the case of death or disability. Prior to the exercise of an option, the holder has no rights as a stockholder with respect to the shares subject to such option, including no voting rights and no right to receive dividends or dividend equivalents.

We have historically granted stock options with exercise prices that are equal to the fair market value of our common stock on the date of grant as determined by our board of directors, based on a number of objective and subjective factors. The exercise price of all stock options granted after the closing of our initial public offering has been and going forward will be equal to the fair market value of shares of our common stock on the date of grant, which will be determined by reference to the closing market price of our common stock on the Nasdaq Global Select Market on the date of grant.

Outstanding Equity Awards at December 31, 2021

The following table sets forth information regarding all outstanding stock options held by each of our named executive officers as of December 31, 2021.

<u>Name</u>	Number of Securities Underlying Unexercised Options (#) Exercisable	Number of Securities Underlying Unexercised Options (#) Unexercisable	Option exercise price (\$)	Option expiration date
Axel Bolte	100,480	-(1)	0.98	6/27/2027
	56,750	— (1)	0.98	6/27/2027
	146,359	87,817(2)	2.02	6/19/2029
	66,321	92,866(3)	2.77	4/22/2030
	167,828	119,878(4)	16.00	7/22/2030
	23,654	43,134(4)	16.00	7/22/2030
	21,937	95,063(5)	19.78	3/3/2031
Henric Bjarke	80,289	— (1)	0.98	9/6/2027
	58,543	35,127(2)	2.02	6/19/2029
	21,293	29,812(3)	2.77	4/22/2030
	11,653	21,252(4)	16.00	7/22/2030
	9,562	41,438(5)	19.78	3/3/2031
Steven Jungles	74,936	-(1)	0.98	6/27/2027
	37,635	22,581(2)	2.02	6/19/2029
	9,617	10,455(6)	2.02	12/11/2029
	18,464	25,851(3)	2.77	4/22/2030
	7,875	34,125(5)	19.78	3/3/2031
Deborah Wenkert		100,000(7)	22.61	2/1/2031
		10,000(8)	6.53	12/7/2031

(1) This option is fully vested.

(2) This option vests over four years, in equal monthly installments through June 20, 2023, subject to continued service.

(3) This option vests over four years, in equal monthly installments through April 23, 2024, subject to continued service.

(4) This option vests over four years, in equal monthly installments through July 23, 2024, subject to continued service.

(5) This option vests over four years, in equal monthly installments through March 4, 2025, subject to continued service.

- (6) This option vests over four years, with 25% of the shares vested on January 1, 2021 and 2.0833% of the original number of shares vesting thereafter in equal monthly installments through January 1, 2024, subject to continued service.
- (7) This option vests over four years, with 25% of the shares vested on February 2, 2022 and 2.0833% of the original number of shares vesting thereafter in equal monthly installments through February 2, 2025, subject to continued service.
- (8) This option vests in full on December 1, 2022, subject to continued service.

Employment Agreements

We have entered into written employment agreements with each of our executive officers. These agreements set forth the terms of the executive officer's compensation, including base salary, annual discretionary bonus

eligibility and severance benefits, among other matters. The employment agreements with Mr. Bolte, Mr. Bjarke and Mr. Jungles are summarized below.

Agreement with Axel Bolte

In March 2021, Inozyme Pharma Switzerland GmbH, or the GmbH, our wholly owned subsidiary, entered into an employment contract with Mr. Bolte, effective April 1, 2021, in connection with the transfer of Mr. Bolte's employment to the GmbH, which we refer to as the Bolte employment contract. Under the Bolte employment contract, Mr. Bolte serves as the chief executive officer to the group consisting of us and our subsidiaries, or the Group. The Bolte employment contract supersedes and replaces an employment agreement we entered into with Mr. Bolte in July 2020 in connection with his employment as our chief executive officer, which employment agreement superseded a consulting agreement for Mr. Bolte's services that we previously entered into in June 2017, as it was subsequently amended.

Under the Bolte employment contract, Mr. Bolte's employment can be terminated by Mr. Bolte or by the GmbH upon one month's notice of termination, except under certain limited circumstances whereby the GmbH can terminate Mr. Bolte immediately under Swiss law. Mr. Bolte's base salary will be reviewed on an annual basis. Mr. Bolte's base salary for 2022 is \$559,676. For a period of up to 24 months following July 23, 2020, Mr. Bolte will be reimbursed for his travel expenses between his home and our Boston area headquarters.

Under the Bolte employment contract, Mr. Bolte is entitled, subject to his execution and nonrevocation of a release of claims in favor of the GmbH and his continued compliance with certain restrictive covenants, in the event of the termination of his employment by the GmbH without cause or by him for good reason, each as defined in the Bolte employment contract, to (1) continued payment of his then-current annual base salary for a period of 12 months following the date his release of claims becomes effective, (2) continued payment by GmbH of its share of the COBRA premiums for health benefit coverage for a period of up to 12 months following the date that his employment is terminated, and (3) payment of a pro-rated portion of his annual target discretionary bonus that he would otherwise have received based on individual and Group performance in a lump sum on the date the first installment of severance pay is paid.

In the event that Mr. Bolte's employment is terminated by the GmbH without cause or by Mr. Bolte with good reason during the 60-day period prior to a change in control, as defined in the Bolte employment contract, or during the 12-month period following a change in control, Mr. Bolte will be entitled, subject to his execution and nonrevocation of a release of claims in favor of the GmbH and his continued compliance with certain restrictive covenants, to (1) continued payment of his then-current annual base salary for a period of 18 months following the date his release of claims becomes effective, (2) continued payment by the GmbH of its share of the COBRA premiums for health benefit coverage for a period of up to 18 months following the date that his employment is terminated, and (3) payment of 150% of his annual target discretionary bonus amount for the year in which the termination occurs in a lump sum on the date the first installment of severance pay is paid. In addition, Mr. Bolte will be entitled to full acceleration of vesting of all outstanding and unvested stock options and other equity awards that vest solely based on continued service. However, if Mr. Bolte's termination date is within 60 days prior to the closing of a change in control, then such accelerated vesting will not occur unless and until the closing of a change in control within 60 days of his termination date. Under the Bolte employment contract, are subject to Section 4999 of the Internal Revenue Code of 1986, then such payments and benefits will either be paid in full or be reduced so that the Section 4999 excise tax does not apply, whichever results in the better after-tax result for Mr. Bolte.

The aggregate amount of severance payments payable as described above will be reduced by any amount Mr. Bolte may be entitled to under statutory Swiss employment legal provisions applicable in case of the termination of the Bolte employment contract, such as, but not limited to, gross salary (including bonus), any compensation for unfair dismissal or dismissal without notice under statutory Swiss law or daily benefits paid by a social security fund.

Agreement with Henric Bjarke

In connection with our initial hiring of Mr. Bjarke as our senior vice president and chief operating officer, we entered into an agreement with him in June 2017. We entered into an amended and restated agreement with Mr. Bjarke in July 2020, which we refer to as the Bjarke employment agreement. Under the Bjarke employment agreement, Mr. Bjarke is an at-will employee, and his employment with us can be terminated by Mr. Bjarke or us at any time and for any reason. Pursuant to the Bjarke employment agreement, Mr. Bjarke's base salary is reviewed by our compensation committee and the board of directors on an annual or more frequent basis and is subject to change in the discretion of our board of directors or compensation committee. Mr. Bjarke's base salary for 2022 is \$458,615. For a period of up to 24 months following July 23, 2020, we will reimburse Mr. Bjarke for his travel expenses between his home and our Boston area headquarters on a grossed-up basis.

Under the Bjarke employment agreement, and in connection with our initial public offering, we granted Mr. Bjarke an option to purchase 32,905 shares of our common stock at a price per share equal to \$16.00.

Under the Bjarke employment agreement, Mr. Bjarke is entitled, subject to his execution and nonrevocation of a release of claims in our favor and his continued compliance with certain restrictive covenants, in the event of the termination of his employment by us without cause or by him for good reason, each as defined in the Bjarke employment agreement, to (1) continued payment of his then-current annual base salary for a period of nine months following the date his release of claims becomes effective, and (2) continued payment by us of our share of the COBRA premiums for health benefit coverage for a period of up to nine months following the date that his employment with us is terminated.

In the event that Mr. Bjarke's employment is terminated by us without cause or by Mr. Bjarke with good reason during the 12-month period following a change in control, as defined in the Bjarke employment agreement, Mr. Bjarke will be entitled, subject to his execution and nonrevocation of a release of claims in our favor and his continued compliance with certain restrictive covenants, to (1) continued payment of his then-current annual base salary for a period of 12 months following the date his release of claims becomes effective, (2) continued payment by us of our share of the COBRA premiums for health benefit coverage for a period of up to 12 months following the date that his employment with us is terminated, and (3) payment of 100% of his annual target discretionary bonus amount for the year in which the termination occurs in a lump sum on the date the first installment of severance pay is paid. In addition, Mr. Bjarke will be entitled to full acceleration of vesting of all outstanding and unvested stock options and other equity awards that vest solely based on continued service. Under the Bjarke employment agreement, if payments and benefits payable to Mr. Bjarke that are contingent on a change in ownership or control, as defined the Bjarke employment agreement, are subject to Section 4999 of the Internal Revenue Code of 1986, then such payments and benefits will either be paid in full or be reduced so that the Section 4999 excise tax does not apply, whichever results in the better after-tax result for Mr. Bjarke.

Agreement with Steven Jungles

In connection with our initial hiring of Mr. Jungles as our senior vice president and chief technical operations officer, we entered into an agreement with him in April 2017. We entered into an amended and restated agreement with Mr. Jungles in July 2020, which we refer to as the Jungles employment agreement.

Under the Jungles employment agreement, Mr. Jungles was an at-will employee, and his employment with us could be terminated by Mr. Jungles or us at any time and for any reason. Mr. Jungles resigned as our chief technical operations officer in February 2022. Mr. Jungles was not entitled to any severance payments in connection with his resignation.

Separation Agreement with Deborah Wenkert

On November 3, 2021, we entered into a separation agreement with Dr. Wenkert in connection with her resignation as our chief medical officer. In consideration for Dr. Wenkert's execution of a release of claims in

our favor, we agreed to (1) make continued payments of Dr. Wenkert's 2021 annual base salary for a period of nine months for an aggregate of \$326,250, in installments and in accordance with our regular payroll practices, and (2) make continued payments of our share of the COBRA premiums for health benefit coverage until the earlier of August 31, 2022 or the date on which Dr. Wenkert obtains alternative group health insurance coverage. In addition, in December 2021, we also granted Dr. Wenkert a nonqualified stock option to purchase 10,000 shares of common stock under our 2020 Stock Incentive Plan, at an exercise price per share of \$6.53.

Consulting Agreement with Deborah Wenkert

On November 30, 2021, we entered into a consulting agreement with Wenkert & Young, LLC, an affiliate of Dr. Wenkert, pursuant to which Wenkert & Young LLC provides consulting services to us, including, but not limited to, assisting with the interpretation of scientific data and advising on study designs. The consulting agreement is in effect until either we or Wenkert & Young LLC terminate the agreement, in such party's sole discretion and immediately upon such party providing 15 days written notice to the other party. Under the consulting agreement, we have agreed to pay Wenkert & Young LLC at a rate of (1) \$425 per hour for work conducted by Deborah Wenkert, (2) \$80 per hour for work conducted by assistants who do not have a M.D. or Ph.D. degree, and (3) \$400 per hour for assistants who have a M.D. or Ph.D. degree. Under the consulting agreement, it is intended that Dr. Wenkert will not provide us services in excess of 20% of the services Dr. Wenkert provided on average while she was employed by us. As of March 31, 2022, we have paid Wenkert & Young, LLC pursuant to the consulting agreement an aggregate of \$29,455 for its consulting services. Any outstanding option awards previously granted to Dr. Wenkert in connection with her employment with us continue to vest so long as Dr. Wenkert continues to provide consulting services and such options will be treated as nonqualified stock options beginning three months after November 30, 2021.

Employee Proprietary Rights, Non-Disclosure, Developments, Non-Competition, and Non-Solicitation Agreements

Each of our executive officers has entered into a standard form of agreement with respect to proprietary and confidential information, developments, non-competition, and non-solicitation. Under this agreement, each executive officer has agreed to protect our confidential and proprietary information during and after the executive officer's employment with us, not to compete with us during his or her employment and for a period generally lasting for one year after the termination of his or her employment, and not to solicit our employees, consultants, clients or customers during his employment and for a period generally lasting for one year after the termination of his employment. In addition, under this agreement, each executive officer has agreed that we own all developments and inventions that are developed by such executive officer within the scope of and during the period of his employment with us that are related to our business or research and development conducted or planned to be conducted by us at the time such development is created. Each executive officer also agreed to provide us with a non-exclusive, royalty-free, perpetual license to use any prior inventions that such executive officer incorporates into inventions assigned to us under this agreement.

401(k) Plan

We maintain a defined contribution employee retirement plan for our employees, including our executive officers. The plan is intended to qualify as a tax-qualified 401(k) plan so that contributions to the 401(k) plan, and income earned on such contributions, are not taxable to participants until withdrawn or distributed from the 401(k) plan (except in the case of contributions under the 401(k) plan designated as Roth contributions). Under the 401(k) plan, each employee is fully vested in his or her deferred salary contributions and our discretionary match. Employee contributions are held and invested by the plan's trustee as directed by participants. The 401(k) plan provides us with the discretion to match employee contributions. Effective January 1, 2021, we implemented a matching policy under which we match 50% of an employee's contributions to the 401(k) plan, up to a maximum of 6% of the employee's base salary and bonus paid during the year.



Stock Option and Other Compensation Plans

The three equity incentive plans described in this section are our 2017 Plan, our 2020 Plan and our 2020 Employee Stock Purchase Plan, or 2020 ESPP. Prior to our initial public offering, we granted awards to eligible participants under our 2017 Plan. Following the closing of our initial public offering, we have granted awards to eligible participants under the 2020 Plan.

Securities Authorized for Issuance Under Equity Compensation Plans

Equity Compensation Plan Information

The following table contains information about our 2017 Plan, our 2020 Plan and our 2020 ESPP as of December 31, 2021.

	As of December 31, 2021			
<u>Plan Category</u>	Number of securities to be issued upon exercise of outstanding options, warrants <u>and rights</u> (a)	exerc out o w	ited average ise price of standing ptions, arrants d rights (b)	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected <u>in column (a))</u> (c)
Equity compensation plans approved by security holders	3,582,613(1)	\$	10.63(1)	1,336,404(2)(3)
Equity compensation plans not approved by security holders	_		_	_
Total	3,582,613	\$	10.63	1,336,404

(1) Includes the 2017 Plan, 2020 Plan and 2020 ESPP.

- (2) As of December 31, 2021, 904,016 shares of our common stock were available for issuance under the 2020 Plan. The number of shares reserved for issuance under the 2020 Plan will be increased on each January 1 through January 1, 2030 by the lower of (i) 4% of the number of shares of our common stock outstanding on the first day of such year or (ii) an amount determined by our board of directors. The shares of common stock underlying any awards that expire, terminate or are otherwise surrendered, cancelled, forfeited or repurchased by us at their original issuance price pursuant to a contractual repurchase right under the 2020 Plan or the 2017 Plan are added back to the shares of common stock available for issuance under the 2020 Plan. On January 1, 2022, the shares under the 2020 Plan were increased by 946,749 shares pursuant to the annual increase described above.
- (3) As of December 31, 2021, 432,388 shares of our common stock were available for issuance under the 2020 ESPP. The number of shares reserved for issuance under the 2020 ESPP will be increased on each January 1 through January 1, 2031 by the lowest of (i) 397,079 shares, (ii) 1% of the number of shares of our common stock outstanding on the first day of such year or (iii) an amount determined by our board of directors. On January 1, 2022, the shares under the 2020 ESPP were increased by 236,687 shares pursuant to the annual increase described above.

Amended and Restated 2017 Equity Incentive Plan

The 2017 Plan was initially approved by our board of directors and our stockholders in January 2017 and was subsequently amended and restated in June 2017. The 2017 Plan was further amended in January 2018, November 2018 and March 2019, in each case to increase the total number of shares reserved for issuance under the 2017 Plan. The 2017 Plan provided for the grant of incentive stock options, nonstatutory stock options, stock appreciation rights, awards of restricted stock, restricted stock units and other stock-based awards. Our employees, officers, directors, consultants and advisors were eligible to receive awards under the 2017 Plan;

however, incentive stock options could only be granted to our employees. The type of award granted under the 2017 Plan and the terms of such award were set forth in the applicable award agreement. No further awards may be granted under the 2017 Plan; however, awards outstanding under the 2017 Plan will continue to be governed by their existing terms. The maximum number of shares of our common stock authorized for issuance under the 2017 Plan was 2,730,496 shares. Our board of directors may amend, suspend or terminate the 2017 Plan at any time, except that stockholder approval may be required to comply with applicable law or provisions under the 2017 Plan.

Effect of Certain Changes in Capitalization

Upon the occurrence of any stock split, reverse stock split, stock dividend, recapitalization, combination of shares, reclassification of shares, spin-off or other similar change in capitalization or event, or any dividend or distribution to holders of our common stock other than an ordinary cash dividend, under the terms of the 2017 Plan, we are required to equitably adjust (or make substitute awards, if applicable), in the manner determined by our board of directors:

- the number and class of securities and exercise price per share of each outstanding option;
- the share and per-share provisions and the measurement price of each outstanding stock appreciation right;
- the number of shares subject to and the repurchase price per share subject to each outstanding restricted stock award or restricted stock unit award; and
- the share and per-share-related provisions and the purchase price, if any, of each outstanding other stock-based award.

Effect of Certain Corporate Transaction

Upon the occurrence of a merger or other reorganization event (as defined in the 2017 Plan), our board of directors may, on such terms as our board of directors determines (except to the extent specifically provided otherwise in an applicable award agreement or other agreement between the participant and us), take any one or more of the following actions pursuant to the 2017 Plan as to all or any (or any portion of) outstanding awards, other than awards of restricted stock:

- provide that outstanding awards will be assumed, or substantially equivalent awards will be substituted, by the acquiring or succeeding corporation (or an affiliate thereof);
- upon written notice to a participant, provide that all of the participant's unexercised awards will terminate immediately prior to the consummation of the reorganization event unless exercised by the participant (to the extent then exercisable) within a specified period following the date of the notice;
- provide that outstanding awards will become exercisable, realizable or deliverable, or restrictions applicable to an award will lapse, in whole or in part, prior to or upon such reorganization event;
- in the event of a reorganization event pursuant to which holders of shares of our common stock will receive a cash payment for each share surrendered in the reorganization event, make or provide for a cash payment to participants with respect to each award held by a participant equal to (1) the number of shares of our common stock subject to the vested portion of the award (after giving effect to any acceleration of vesting that occurs upon or immediately prior to the reorganization event) multiplied by (2) the excess, if any, of the cash payment for each share surrendered in the reorganization event over the exercise, measurement or purchase price of such award and any applicable tax withholdings, in exchange for the termination of the award;

- provide that, in connection with our liquidation or dissolution, awards will convert into the right to receive liquidation proceeds (if applicable, net of the exercise measurement or purchase price thereof and any applicable tax withholdings); or
- any combination of the foregoing.

Our board of directors is not obligated under the 2017 Plan to treat all awards, all awards held by a participant, or all awards of the same type, identically.

Upon the occurrence of a reorganization event other than our liquidation or dissolution, the repurchase and other rights with respect to outstanding restricted stock awards will continue for the benefit of the succeeding company and will, unless our board of directors determines otherwise, apply to the cash, securities, or other property which our common stock was converted into or exchanged for in the reorganization event in the same manner and to the same extent as they applied to the common stock subject to the restricted stock award. However, the board may provide for the termination or deemed satisfaction of such repurchase or other rights under the restricted stock award agreement or any other agreement between a participant and us, either initially or by amendment. Upon our liquidation or dissolution, except to the extent specifically provided to the contrary in the restricted stock award agreement or any other agreement between the plan participant and us, all restrictions and conditions on all restricted stock awards then outstanding will automatically be deemed terminated or satisfied.

Our board of directors may at any time provide that any award under the 2017 Plan will become immediately exercisable in whole or in part, free of some or all restrictions or conditions, or otherwise realizable in whole or in part, as the case may be.

2020 Stock Incentive Plan

Our board of directors adopted, and our stockholders have approved, the 2020 Plan, which became effective in February 2020 immediately prior to the effectiveness of the registration statement for our initial public offering. The 2020 Plan provides for the grant of incentive stock options, nonstatutory stock options, stock appreciation rights, restricted stock awards, restricted stock units and other stock-based awards. The number of shares of our common stock reserved for issuance under the 2020 Plan is the sum of: (1) 1,588,315; plus (2) the number of shares (up to 2,613,638 shares) equal to the sum of (x) the number of shares of our common stock reserved for issuance under the 2017 Plan that remained available for grant under the 2017 Plan immediately prior to the effectiveness of the registration statement for our initial public offering in July 2020 and (y) the number of shares of our common stock subject to outstanding awards under the 2017 Plan that expire, terminate or are otherwise surrendered, cancelled, forfeited or repurchased by us at their original issuance price pursuant to a contractual repurchase right; plus (3) an annual increase, to be added on the first day of each fiscal year, beginning with the fiscal year ending December 31, 2022 and continuing until, and including, the fiscal year ending December 31, 2030, equal to the lower of (i) 4% of the number of shares of our common stock may be granted subject to incentive stock options under the 2020 Plan.

Our employees, officers, directors, consultants and advisors are eligible to receive awards under the 2020 Plan. Incentive stock options, however, may only be granted to our employees.

Pursuant to the terms of the 2020 Plan, our board of directors (or a committee delegated by our board of directors) administers the plan and, subject to any limitations in the plan, selects the recipients of awards and determines:

- the number of shares of our common stock covered by options and the dates upon which the options become exercisable;
- the type of options to be granted;

- the duration of options, which may not be in excess of ten years;
- the exercise price of options, which must be at least equal to the fair market value of our common stock on the date of grant; and
- the number of shares of our common stock subject to and the terms of any stock appreciation rights, restricted stock awards, restricted stock units or other stock-based awards and the terms and conditions of such awards, including conditions for repurchase, issue price and repurchase price (though the measurement price of stock appreciation rights must be at least equal to the fair market value of our common stock on the date of grant and the duration of such awards may not be in excess of ten years).

If our board of directors delegates authority to one or more of our officers to grant awards under the 2020 Plan, the officers will have the power to make awards to all of our employees, except executive officers. Our board of directors will fix the terms of the awards to be granted by any such officer, the maximum number of shares subject to awards that such officer may make, and the time period in which such awards may be granted. Pursuant to the 2020 Plan, the maximum amount of cash and equity compensation (calculated based on grant date fair value for financial reporting purposes) granted in any calendar year to any individual non-employee director in his or her capacity as a non-employee director shall not exceed \$750,000 in the case of an incumbent director or \$1,000,000 in the case of a new director during his or her first year of service, in each case, subject to the terms and limitations set forth in the 2020 Plan.

Effect of Certain Changes in Capitalization

Upon the occurrence of any stock split, reverse stock split, stock dividend, recapitalization, combination of shares, reclassification of shares, spin-off or other similar change in capitalization or event, or any dividend or distribution to holders of our common stock other than an ordinary cash dividend, under the terms of the 2020 Plan, we are required to equitably adjust (or make substitute awards, if applicable), in the manner determined by our board of directors:

- the number and class of securities available under the 2020 Plan;
- the share counting rules under the 2020 Plan;
- the number and class of securities and exercise price per share of each outstanding option;
- the share and per-share provisions and the measurement price of each outstanding stock appreciation right;
- the number of shares subject to, and the repurchase price per share subject to, each outstanding award of restricted stock; and
- the share and per-share related provisions and the purchase price, if any, of each restricted stock unit award and each other stockbased award.

Effect of Certain Corporate Transactions

Upon the occurrence of a merger or other reorganization event (as defined in the 2020 Plan), our board of directors may, on such terms as our board determines (except to the extent specifically provided otherwise in an applicable award agreement or other agreement between the participant and us), take any one or more of the following actions pursuant to the 2020 Plan as to all or any (or any portion of) outstanding awards, other than awards of restricted stock:

- provide that outstanding awards will be assumed, or substantially equivalent awards will be substituted, by the acquiring or succeeding corporation (or an affiliate thereof);
- upon written notice to a participant, provide that all of the participant's unvested awards will be forfeited, and/or vested but unexercised awards will terminate, immediately prior to the

consummation of the reorganization event unless exercised by the participant (to the extent then exercisable) within a specified period following the date of the notice;

- provide that outstanding awards will become exercisable, realizable or deliverable, or restrictions applicable to an award will lapse, in whole or in part, prior to or upon such reorganization event;
- in the event of a reorganization event pursuant to which holders of shares of our common stock will receive a cash payment for each share surrendered in the reorganization event, make or provide for a cash payment to participants with respect to each award held by a participant equal to (1) the number of shares of our common stock subject to the vested portion of the award (after giving effect to any acceleration of vesting that occurs upon or immediately prior to such reorganization event) multiplied by (2) the excess, if any, of the cash payment for each share surrendered in the reorganization event over the exercise, measurement or purchase price of such award and any applicable tax withholdings, in exchange for the termination of such award; and/or
- provide that, in connection with our liquidation or dissolution, awards will convert into the right to receive liquidation proceeds (if applicable, net of the exercise, measurement or purchase price thereof and any applicable tax withholdings).

Our board of directors is not obligated under the 2020 Plan to treat all awards, all awards held by a participant, or all awards of the same type, identically.

In the case of certain restricted stock units, no assumption or substitution is permitted, and the restricted stock units will instead be settled in accordance with the terms of the applicable restricted stock unit agreement.

Upon the occurrence of a reorganization event other than our liquidation or dissolution, our repurchase and other rights with respect to outstanding awards of restricted stock will continue for the benefit of the succeeding company and will, unless our board of directors determines otherwise, apply to the cash, securities, or other property which our common stock was converted into or exchanged for pursuant to the reorganization event in the same manner and to the same extent as they applied to the common stock subject to the restricted stock award. However, the board may provide for the termination or deemed satisfaction of such repurchase or other rights under the restricted stock award agreement or in any other agreement between a participant and us, either initially or by amendment. Upon our liquidation or dissolution, except to the extent specifically provided to the contrary in the restricted stock award agreement or any other agreement between the participant and us, all restrictions and conditions on all restricted stock awards then outstanding will automatically be deemed terminated or satisfied.

At any time, our board of directors may provide that any award under the 2020 Plan will become immediately exercisable in full or in part, free of some or all restrictions or conditions, or otherwise realizable in whole or in part, as the case may be.

No award may be granted under the 2020 Plan on or after the date that is ten years from the effectiveness of the 2020 Plan. Our board of directors may amend, suspend or terminate the 2020 Plan at any time, except that stockholder approval may be required to comply with applicable law or stock market requirements.

2020 Employee Stock Purchase Plan

Our board of directors adopted, and our stockholders have approved, the 2020 ESPP, became effective in February 2020 immediately prior to the effectiveness of the registration statement for our initial public offering. The 2020 ESPP is administered by our board of directors (or by a committee appointed by our board of directors). The 2020 ESPP initially provides participating employees with the opportunity to purchase up to an aggregate of 198,539 shares of our common stock. The number of shares of our common stock reserved for issuance under the 2020 ESPP will automatically increase on the first day of each fiscal year, beginning with the

fiscal year commencing on January 1, 2021 and continuing until, and including, the fiscal year commencing on January 1, 2031, in an amount equal to the lowest of (1) 397,079 shares of our common stock, (2) 1% of the number of shares of our common stock outstanding on the first day of such fiscal year and (3) an amount determined by our board of directors.

All of our employees and employees of any designated subsidiary, as defined in the 2020 ESPP, are eligible to participate in the 2020 ESPP, provided that:

- such person is customarily employed by us or a designated subsidiary for more than 20 hours a week and for more than five months in a calendar year;
- such person has been employed by us or by a designated subsidiary for at least three months prior to enrolling in the 2020 ESPP; and
- such person was our employee or an employee of a designated subsidiary on the first day of the applicable offering period under the 2020 ESPP.

We retain the discretion to determine which eligible employees may participate in an offering under applicable regulations.

We expect to make one or more offerings to our eligible employees to purchase stock under the 2020 ESPP beginning at such time and on such dates as our board of directors may determine, or on the first business day

thereafter. Each offering will consist of a six-month offering period during which payroll deductions will be made and held for the purchase of our common stock at the end of the offering period. Our board of directors or a committee designated by the board of directors may, at its discretion, choose a different period of not more than 12 months for offerings. The first offering period under our 2020 ESPP commenced on April 1, 2022.

On each offering commencement date, each participant will be granted the right to purchase, on the last business day of the offering period, up to a number of shares of our common stock determined by multiplying \$2,083 by the number of full months in the offering period and dividing that product by the closing price of our common stock on the first day of the offering period. No employee may be granted an option under the 2020 ESPP that permits the employee's rights to purchase shares under the 2020 ESPP and any other employee stock purchase plan of ours or of any of our subsidiaries to accrue at a rate that exceeds \$25,000 of the fair market value of our common stock (determined as of the first day of each offering period) for each calendar year in which the option is outstanding. In addition, no employee may purchase shares of our common stock under the 2020 ESPP that would result in the employee owning 5% or more of the total combined voting power or value of our stock or the stock of any of our subsidiaries.

On the commencement date of each offering period, each eligible employee may authorize up to a maximum of 15% of his or her compensation to be deducted by us during the offering period. Our board of directors or the committee designated by the board of directors may designate a lower maximum deduction rate in its discretion. Each employee who continues to be a participant in the 2020 ESPP on the last business day of the offering period will be deemed to have exercised an option to purchase from us the number of whole shares of our common stock that his or her accumulated payroll deductions on such date will pay for, not in excess of the maximum numbers set forth above. Under the terms of the 2020 ESPP, the purchase price will be determined by our board of directors or the committee designated by the board of directors for each offering period and will be at least 85% of the applicable closing price of our common stock. If our board of directors or the committee does not make a determination of the purchase price, the purchase price will be 85% of the lesser of the closing price of our common stock on the first business day of the offering period or on the last business day of the offering period.

An employee may at any time prior to the close of business on the fifteenth business day prior to the end of an offering period, and for any reason, permanently withdraw from participating in an offering prior to the end of an

offering period and permanently withdraw the balance accumulated in the employee's account. If an employee elects to discontinue his or her payroll deductions during an offering period but does not elect to withdraw his or her funds, funds previously deducted will be applied to the purchase of common stock at the end of the offering period. If a participating employee's employment ends before the last business day of an offering period, no additional payroll deductions will be taken and the balance in the employee's account will be paid to the employee.

We will be required to make equitable adjustments to the extent determined by our board of directors or a committee thereof to the number and class of securities available under the 2020 ESPP, the share limitations under the 2020 ESPP, and the purchase price for an offering period under the 2020 ESPP to reflect stock splits, reverse stock splits, stock dividends, recapitalizations, combinations of shares, reclassifications of shares, spin-offs and other similar changes in capitalization or events or any dividends or distributions to holders of our common stock other than ordinary cash dividends.

In connection with a merger or other reorganization event, as defined in the 2020 ESPP, our board of directors or a committee of our board of directors may take any one or more of the following actions as to outstanding options to purchase shares of our common stock under the 2020 ESPP on such terms as our board of directors or committee thereof determines:

- provide that options will be assumed, or substantially equivalent options will be substituted, by the acquiring or succeeding corporation (or an affiliate thereof);
- upon written notice to employees, provide that all outstanding options will be terminated immediately prior to the consummation of such reorganization event and that all such outstanding options will become exercisable to the extent of accumulated payroll deductions as of a date specified by our board of directors or a committee thereof in such notice, which date will not be less than ten days preceding the effective date of the reorganization event;
- upon written notice to employees, provide that all outstanding options will be cancelled as of a date prior to the effective date of the reorganization event and that all accumulated payroll deductions will be returned to participating employees on such date;
- in the event of a reorganization event under the terms of which holders of our common stock will receive upon consummation thereof a cash payment for each share surrendered in the reorganization event, change the last day of the offering period to be the date of the consummation of the reorganization event and make or provide for a cash payment to each employee equal to (1) the cash payment for each share surrendered in the reorganization event times the number of shares of our common stock that the employee's accumulated payroll deductions as of immediately prior to the reorganization event is treated as the fair market value of our common stock on the last day of the applicable offering period for purposes of determining the purchase price and where the number of shares that could be purchased is subject to the applicable limitations under the 2020 ESPP minus (2) the result of multiplying such number of shares by the purchase price; and/or
- provide that, in connection with our liquidation or dissolution, options will convert into the right to receive liquidation proceeds (net of the purchase price thereof).

Our board of directors may at any time, and from time to time, amend or suspend the 2020 ESPP or any portion of the 2020 ESPP. We will obtain stockholder approval for any amendment if such approval is required by Section 423 of the Internal Revenue Code of 1986. Further, our board of directors may not make any amendment that would cause the 2020 ESPP to fail to comply with Section 423 of the Internal Revenue Code of 1986. The 2020 ESPP may be terminated at any time by our board of directors. Upon termination, we will refund all amounts in the accounts of participating employees.

Rule 10b5-1 Sales Plans

Certain of our directors and executive officers have adopted and may in the future adopt written plans, known as Rule 10b5-1 plans, in which they will contract with a broker to buy or sell shares of our common stock on a periodic basis. Under a Rule 10b5-1 plan, a broker executes trades pursuant to parameters established by the director or officer when entering into the plan, without further direction from the director or officer. The director or officer may amend or terminate the plan in some circumstances. Our directors and executive officers may also buy or sell additional shares outside of a Rule 10b5-1 plan when they are not in possession of material, nonpublic information.

Anti-Hedging Policies

Our board of directors has adopted an insider trading policy, which applies to all of our directors and employees, including our executive officers, and certain of their family members and any entities controlled by such persons. The policy expressly prohibits such persons from engaging in any short sales, including short sales "against the box", any purchases or sales of puts, calls or other derivative securities, or any purchases of financial instruments (including prepaid variable forward contracts, equity swaps, collars and exchange funds) that are designed to hedge or offset any decrease in the market value of our securities.

Director Compensation

The table below shows all compensation awarded to, earned by or paid to each of our non-employee directors during the year ended December 31, 2021.

Name	Fees Earned or Paid in Cash (\$)	Option Awards (\$)(1)(2)	Total (\$)
Sarah Bhagat	42,500	115,277	157,777
Reinaldo Diaz	45,000	115,277	160,277
Martin Edwards	46,500	115,277	161,777
Robert Hopfner	40,000	115,277	155,277
Edward Mathers	44,000	115,277	159,277
Lynne Sullivan	50,000	115,277	165,277
Douglas Treco	73,000	115,277	188,277

(1) The amount reported in the "Option Awards" column reflects the aggregate grant date fair value of stock options awarded during the year computed in accordance with the provisions of ASC 718. The amount reported reflects stock options to purchase 9,367 shares of our common stock granted to each director immediately following the 2021 annual meeting of stockholders. See Note 8 to our consolidated financial statements appearing in our Annual Report on Form 10-K filed with the SEC on March 15, 2022 regarding assumptions underlying the valuation of equity awards. This amount reflects the accounting cost for this stock option and does not reflect the actual economic value that may be realized by the director upon the vesting of the stock option, the exercise of the stock option or the sale of the common stock underlying such stock option.

(2) As of December 31, 2021, the aggregate number of shares of our common stock subject to outstanding option awards for each non-employee director was as follows: Dr. Bhagat, 18,734 shares; Mr. Diaz, 18,734 shares; Dr. Edwards, 18,734 shares; Dr. Hopfner, 18,734 shares; Mr. Mathers, 18,734 shares; Ms. Sullivan, 47,102 shares; and Dr. Treco, 105,713 shares.

Mr. Bolte, one of our directors who also serves as our president and chief executive officer, does not receive any additional compensation for his service as a director. Mr. Bolte is one of our named executive officers and, accordingly, the compensation that we pay to Mr. Bolte is discussed above under "— Summary Compensation Table" and "—Narrative to Summary Compensation Table."

Prior to our initial public offering, we did not have a formal non-employee director compensation policy. Our board of directors approved a director compensation program that became effective in July 2020 upon the closing of our initial public offering. Under this director compensation program, we pay our non-employee directors a cash retainer for service on the board of directors and for service on each committee on which the director is a member. The chairman of the board and of each committee receive additional retainers for such service. These fees are payable in arrears in four equal quarterly installments on the last day of each quarter, provided that the amount of such payment is prorated for any portion of such quarter that the director is not serving on our board of directors or on such committee. No fee was payable in respect of any period prior to the completion of our initial public offering and the first payment under the director compensation program after our initial public offering was prorated. The fees paid to non-employee directors for service on the board of directors and for service on each committee of the board of directors on which the director is a member are as follows:

	Mem			Incremental mual Fee
Board of Directors	\$	35,000	\$	30,000
Audit Committee	\$	7,500	\$	7,500
Compensation Committee	\$	5,000	\$	5,000
Nominating and Corporate Governance Committee	\$	4,000	\$	4,000

We also reimburse our non-employee directors for reasonable travel and other expenses incurred in connection with attending meetings of our board of directors and any committee of our board of directors on which he or she serves.

In addition, under our director compensation program, each non-employee director will receive, upon his or her initial election or appointment to our board of directors, an option to purchase 18,734 shares of our common stock under the 2020 Plan. Each of these options will vest as to 2.7778% of the shares of our common stock underlying such option at the end of each successive one-month period following the date of grant until the third anniversary of the date of grant, subject to the non-employee director's continued service as a director. Further, on the date of the first board meeting held after each annual meeting of stockholders, each non-employee director that has served on our board of directors for at least six months will receive, under the 2020 Plan, an option to purchase 9,367 shares of our common stock under the 2020 Plan. Each of these options will vest with respect to all of the shares underlying the option on the first anniversary of the date of grant or, if earlier, immediately prior to the first annual meeting of stockholders occurring after the grant date, subject to the non-employee director's continued service as a director. All options issued to our non-employee directors under our director compensation program will be issued at exercise prices equal to the fair market value of our common stock on the date of grant and will become exercisable in full upon specified change in control events.

TRANSACTIONS WITH RELATED PERSONS

The following is a description of transactions since January 1, 2020 to which we have been a party, and in which any of our directors, executive officers and holders of more than 5% of our voting securities and affiliates of our directors, executive officers and holders of more than 5% of our voting securities, had or will have a direct or indirect material interest. We believe that all of the transactions described below were made on terms no less favorable to us than could have been obtained from unaffiliated third parties.

Participation in Underwritten Offering

On April 19, 2022, we closed an underwritten offering in which we issued and sold an aggregate of 16,276,987 shares of our common stock at a price per share of \$3.69 and pre-funded warrants to purchase 3,523,013 shares of common stock at a price per warrant of \$3.6899, before expenses and underwriting discounts and commissions. We received aggregate net proceeds of approximately \$68.3 million, after deducting expenses and underwritten offering and their affiliates purchased an aggregate of 12,849,887 shares of our common stock in the offering and pre-funded warrants to purchase 3,523,013 shares of our common stock. Each of those purchases was made through the underwriters at the same offering price as other investors. The following table sets forth the number of shares of our common stock purchased by such executive officers, holders of more than 5% of our voting securities and their affiliates and the aggregate purchase price paid for such shares.

Purchaser(1)	Pre-Funded Warrants Purchased	Aggregate Purchase Price for Pre-Funded Warrants	Shares of Common Stock Purchased	gregate Purchase Price for Shares
Longitude Venture Partners III, L.P.			1,355,000	\$ 4,999,950
Sofinnova Venture Partners X, L.P.		—	1,627,000	\$ 6,003,630
Pivotal bioVenture Partners Fund I, L.P.		—	1,070,000	\$ 3,948,300
Entities affiliated with Deerfield Partners, L.P.			1,075,950	\$ 3,970,256
Entities affiliated with Adage Capital Partners, L.P.		—	550,000	\$ 2,029,500
Entities affiliated with Deep Track Capital, LP			3,250,000	\$ 11,992,500
Entities affiliated with Venrock Healthcare Capital Partners II, L.P.	1,355,013	\$4,999,862.47	2,709,987	\$ 9,999,852.03
Entities affiliated with Baker Bros. Advisors LP	2,168,000	\$7,999,703.20	—	
Entities affiliated with Rock Springs Capital Management LP		—	1,090,000	\$ 4,022,100
Axel Bolte			67,750	\$ 249,998
Sanjay Subramanian		—	27,100	\$ 99,999
Henric Bjarke	—	—	27,100	\$ 99,999

(1) See the "Principal Stockholders" section for additional information about securities held by these entities and executive officers.

Participation in Initial Public Offering

On July 28, 2020, we closed our initial public offering in which we issued and sold an aggregate of 7,000,000 shares of our common stock at a price to the public of \$16.00 per share, before expenses and underwriting discounts and commissions. On July 30, 2020, we issued and sold an additional 1,050,000 shares of our common stock on the same terms upon the exercise in full by the underwriters of their option to purchase additional shares. We received aggregate net proceeds of \$115.9 million, after deducting expenses and underwriting discounts and commissions. Certain holders of more than 5% of our voting securities at the time of our initial public offering and their affiliates purchased an aggregate of 2,475,000 shares of our common stock in the initial public offering. Each of those purchases was made through the underwriters at the initial public offering price. The following table sets forth the number of shares of our common stock purchased by such holders and their affiliates and the aggregate purchase price paid for such shares.

Purchaser	Shares of Common Stock Purchased	Aggregate Purchase Price
Longitude Venture Partners III, L.P.(1)	625,000	\$10,000,000
RA Capital Management, L.P.(2)	600,000	\$ 9,600,000
Sofinnova Venture Partners X, L.P.(1)	437,500	\$ 7,000,000
Novo Holdings A/S(2)	375,000	\$ 6,000,000
New Enterprise Associates 15, L.P.(1)	250,000	\$ 4,000,000
Pivotal bioVenture Partners Fund I, L.P.(1)	187,500	\$ 3,000,000

(1) See the "Principal Stockholders" section for additional information about shares held by these entities.

(2) Such entities were holders of more than 5% of our voting securities during this transaction, but are no longer holders of more than 5% of our voting securities.

Alexion Intellectual Property Asset Acquisition

In July 2020, we entered into an intellectual property asset purchase agreement with Alexion Pharmaceuticals, Inc., or Alexion, pursuant to which Alexion sold and assigned to us Alexion's right, title and interest in and to specified patent rights and other specified assets solely related to ENPP1. We issued 8,294,360 shares of our Series A-2 Convertible Preferred Stock to Alexion in consideration for the sale and assignment to us of such assets, resulting in Alexion becoming a holder of more than 5% of our outstanding voting securities at such time. Under the intellectual property asset purchase agreement, we also granted a non-exclusive license to Alexion and its affiliates to continue to use the assets we acquired for Alexion's and its affiliates' internal, non-clinical research purposes. In addition, subject to certain specified qualifications set forth in the intellectual property assets purchase agreement, Alexion is obligated to assign to us its rights with respect to any other assets owned by it that are solely related to ENPP1. Alexion is no longer a current holder of more than 5% of our voting securities.

Series A-2 Convertible Preferred Stock Financing

On June 5, 2020, we issued and sold an aggregate of 23,566,431 additional shares of our Series A-2 Convertible Preferred Stock at a price per share of \$1.43, for an aggregate purchase price of \$33,699,996. The following table sets forth the aggregate number of shares of our Series A-2 Convertible Preferred Stock that we issued and sold to holders of more than 5% of our voting securities and their affiliates at the time of such financing and the aggregate purchase price for such shares:

Purchaser	Shares of Series A-2 Convertible Preferred Stock	Aggregate Purchase Price
Longitude Venture Partners III, L.P.(1)	699,300	\$ 999,999
New Enterprise Associates 15, L.P.(1)	699,300	\$ 999,999
Novo Holdings A/S(4)	699,300	\$ 999,999
Sofinnova Venture Partners X, L.P.(1)	5,944,056	\$ 8,500,000
Pivotal bioVenture Partners Fund I, L.P.(1)	5,244,755	\$ 7,500,000
Entities affiliated with RA Capital Management, L.P.(2)(4)	5,244,755	\$ 7,500,000
Entities affiliated with Cowen Healthcare Investments(3)(4)	3,146,853	\$ 4,500,000

(1) See the "Principal Stockholders" section for additional information about shares held by these entities.

- (2) Consisted of (i) 3,336,451 shares held by RA Capital Healthcare Fund, L.P., (ii) 597,115 shares held by Blackwell Partners LLC—Series A and (iii) 1,311,189 shares held by RA Capital Nexus Fund, L.P.
- (3) Consisted of (i) 2,930,010 shares held by Cowen Healthcare Investments II LP and (ii) 216,843 shares held by CHI EF II LP.
- (4) Such entities were holders of more than 5% of our voting securities during this transaction, but are no longer holders of more than 5% of our voting securities.

The foregoing shares of Series A-2 Convertible Preferred Stock converted into shares of our common stock upon the closing of our initial public offering.

Director Affiliations

Some of our directors are affiliated or associated with entities which beneficially own or owned 5% or more of our voting securities, as indicated in the table below:

Directors	Principal Stockholder	
Sarah Bhagat	Sofinnova Venture Partners X, L.P.	
Reinaldo Diaz	Longitude Venture Partners III, L.P.	
Robert Hopfner	Pivotal bioVenture Partners Fund I, L.P.	
Edward Mathers	New Enterprise Associates 15, L.P.	

Danforth Consulting Agreement

In May 2021, we entered into an amended and restated consulting agreement with Danforth Advisors, LLC, or Danforth, an affiliate of Stephen DiPalma, our interim chief financial officer from May 2021 to March 2022. Pursuant to the consulting agreement, Danforth provided us with the chief financial officer services of Mr. DiPalma from May 2021 to March 2022, and Danforth continues to provides us with other services, including finance, accounting and administrative services, in exchange for fees payable to Danforth based on hourly rates. We have paid Danforth approximately \$0.4 million during the year ended December 31, 2021 and approximately \$0.2 million during 2022. In accordance with the consulting agreement, in May 2021, we issued to Mr. DiPalma an option to purchase 15,000 shares of our common stock at an exercise price per share of \$15.90.



The consulting agreement may be terminated by us or by Danforth with cause, upon 30 days prior written notice, and without cause, upon 60 days prior written notice.

Consulting Agreement with Joseph Schlessinger

In January 2017, we entered into a consulting agreement with Joseph Schlessinger, pursuant to which Dr. Schlessinger served on our scientific advisory board and provided certain services to us related to planning, organizing and developing our research and development activities, advising on research techniques, assisting in recruiting scientists and attending meetings with investors, collaborators and strategic partners. Dr. Schlessinger was a member of our board of directors from September 2015 to May 2020. The consulting agreement was in effect until January 2022. Under the consulting agreement, we agreed to pay Dr. Schlessinger \$135,000 per year until January 2021 and \$67,500 from January 2021 to January 2022, and to reimburse Dr. Schlessinger for reasonable out-of-pocket expenses incurred in the performance of his services. Under the consulting agreement, we have paid Dr. Schlessinger an aggregate of \$607,863 for his consulting services.

Registration Rights

We are a party to an investor rights agreement with certain holders of our common stock, including some of our 5% stockholders and their affiliates and entities affiliated with some of our directors. This investor rights agreement provides these holders the right, subject to certain conditions, to demand that we file a registration statement or to request that their shares be covered by a registration statement that we are otherwise filing.

We are a party to a registration rights agreement with certain holders of our common stock, including some of our executive officers. The registration rights agreement provides these holders the right, subject to certain conditions, to demand that we file a registration statement or request that their shares be covered by a registration statement that we are otherwise filing.

Indemnification Agreements

Our certificate of incorporation provides that we will indemnify our directors and officers to the fullest extent permitted by Delaware law. In addition, we have entered into indemnification agreements with all of our directors and executive officers. These indemnification agreements may require us, among other things, to indemnify each such director or executive officer for some expenses, including attorneys' fees, judgments, fines and settlement amounts incurred by him or her in any action or proceeding arising out of his or her service as one of our directors or executive officers.

Policies and Procedures for Related Person Transactions

Our board of directors has adopted written policies and procedures for the review of any transaction, arrangement or relationship in which our company is a participant, the amount involved exceeds (i) the lesser of \$120,000 and one percent of our average total assets at year end for the last two completed fiscal years, if we are a "smaller reporting company" under applicable SEC rules, or (ii) \$120,000, if we are not a "smaller reporting company" under applicable SEC rules, or (ii) \$120,000, if we are not a "smaller reporting company" under applicable SEC rules, or their immediate family members, each of whom we refer to as a "related person," has a direct or indirect material interest.

If a related person proposes to enter into such a transaction, arrangement or relationship, which we refer to as a "related person transaction," the related person must report the proposed related person transaction to our general counsel, and if none, our chief operating officer or chief financial officer. The policy calls for the proposed related person transaction to be reviewed and, if deemed appropriate, approved by our audit committee. Whenever practicable, the reporting, review and approval will occur prior to entry into the transaction. If advance review and approval is not practicable, the audit committee will review, and, in its discretion, may ratify the

related person transaction. The policy also permits the chair of the audit committee to review and, if deemed appropriate, approve proposed related person transactions that arise between committee meetings, subject to ratification by the committee at its next meeting. Any related person transactions that are ongoing in nature will be reviewed annually.

A related person transaction reviewed under the policy will be considered approved or ratified if it is authorized by the audit committee after full disclosure of the related person's interest in the transaction. As appropriate for the circumstances, the audit committee will review and consider:

- the related person's interest in the related person transaction;
- the approximate dollar value of the amount involved in the related person transaction;
- the approximate dollar value of the amount of the related person's interest in the transaction without regard to the amount of any profit or loss;
- whether the transaction was undertaken in the ordinary course of our business;
- whether the terms of the transaction are no less favorable to us than terms that could have been reached with an unrelated third party;
- the purpose of, and the potential benefits to us of, the transaction; and
- any other information regarding the related person transaction or the related person in the context of the proposed transaction that would be material to investors in light of the circumstances of the particular transaction.

Our audit committee may approve or ratify the transaction only if it determines that, under all of the circumstances, the transaction is in, or is not inconsistent with, our best interests. Our audit committee may impose any conditions on the related person transaction that it deems appropriate.

In addition to the transactions that are excluded by the instructions to the SEC's related person transaction disclosure rule, our board of directors has determined that the following transactions do not create a material direct or indirect interest on behalf of related persons and, therefore, are not related person transactions for purposes of this policy:

- interests arising solely from the related person's position as an executive officer of another entity, whether or not the person is also a director of the entity, that is a participant in the transaction where the related person and all other related persons own in the aggregate less than a 10% equity interest in such entity, the related person and his or her immediate family members are not involved in the negotiation of the terms of the transaction and do not receive any special benefits as a result of the transaction and the amount involved in the transaction is less than the greater of \$200,000 or 5% of the annual gross revenues of the company receiving payment under the transaction; and
- a transaction that is specifically contemplated by provisions of our certificate of incorporation or bylaws.

The policy provides that transactions involving compensation of executive officers shall be reviewed and approved by our compensation committee in the manner specified in the compensation committee's charter.

We did not have a written policy regarding the review and approval of related person transactions prior to our initial public offering. Nevertheless, with respect to such transactions occurring prior our initial public offering, it was the practice of our board of directors to consider the nature of and business reasons for such transactions, how the terms of such transactions compared to those which might be obtained from unaffiliated third parties and whether such transactions were otherwise fair to and in the best interests of, or not contrary to, our best interests.

PRINCIPAL STOCKHOLDERS

Unless otherwise provided below, the following table sets forth information with respect to the beneficial ownership of our common stock as of April 19, 2022 by:

- each of our directors;
- each of our named executive officers;
- all of our directors and executive officers as a group; and
- each person, or group of affiliated persons, who is known to us to be the beneficial owner of 5% or more of the outstanding shares of our common stock.

The column entitled "Percentage of Shares Beneficially Owned" is based on a total of 40,097,076 shares of our common stock outstanding as of April 19, 2022.

Beneficial ownership is determined in accordance with the rules and regulations of the SEC and includes voting or investment power with respect to our common stock. Shares of our common stock subject to options that are currently exercisable or exercisable within 60 days after April 19, 2022 are considered outstanding and beneficially owned by the person holding the options for the purpose of calculating the percentage ownership of any other person. Except as otherwise noted, the persons and entities in this table have sole voting and investing power with respect to all of the shares of our common stock beneficially owned by them, subject to community property laws, where applicable. Except as otherwise set forth below, the address of the beneficial owner is c/o Inozyme Pharma, Inc., 321 Summer Street, Suite 400, Boston, Massachusetts 02210.

Name of Beneficial Owner	Number of Shares Beneficially Owned	Percentage of Shares Beneficially Owned (%)
5% Stockholders		
Longitude Venture Partners III, L.P.(1)	4,174,379	10.41%
Entities affiliated with Venrock Healthcare Capital Partners II L.P. (2)	4,065,000	9.81%
Sofinnova Venture Partners X, L.P.(3)	3,655,308	9.12%
Entities affiliated with Deerfield Partners, L.P. (4)	3,420,736	8.53%
Entities affiliated with Deep Track Capital, LP (5)	3,250,000	8.11%
Entities affiliated with Pivotal bioVenture Partners Fund I, L.P.(6)	2,661,154	6.64%
Entities affiliated with Rock Springs Capital Management LP (7)	2,452,637	6.12%
Entities affiliated with New Enterprise Associates (8)	2,437,689	6.08%
Entities affiliated with Adage Capital Partners, L.P. (9)	2,149,028	5.36%
Entities affiliated with Baker Bros. Advisors LP (10)	2,168,000	5.13%
Named Executive Officers and Directors		
Axel Bolte (11)	885,682	2.17%
Henric Bjarke (12)	294,038	*
Steven Jungles (13)	210,887	*
Deborah Wenkert (14)	33,333	*
Douglas Treco (15)	52,856	*
Sarah Bhagat (16)	9,367	*
Reinaldo Diaz (17)	9,367	*
Martin Edwards (18)	9,367	*
Robert Hopfner (19)	2,670,521	6.66%
Edward Mathers (20)	9,367	*
Lynne Sullivan (21)	23,551	*
All current executive officers and directors as a group (10 persons)(22)	3,991,216	9.72%

* Less than 1%

- (1) Based solely on a Form 4 filed by Longitude Venture Partners III, L.P. on April 21, 2022. Consists of 4,174,379 shares of our common stock held by Longitude Venture Partners III, L.P., or LVP III. Longitude Capital Partners, III, LLC, or LCP III, is the general partner of LVP III and may be deemed to have voting and dispositive power over our securities held by LVP III. Patrick G. Enright and Juliet Tammenoms Bakker are managing members of LCP III and may be deemed to share voting and dispositive power with respect to the shares held by LVP III. Each of LCP III, Mr. Enright and Ms. Tammenoms Bakker disclaims beneficial ownership of such shares, except to the extent of their respective pecuniary interests therein. The principal business address of LVP III is 2740 Sand Hill, 2nd Floor, Road, Menlo Park, California 94025.
- (2) Consists of (i) 436,037 shares of common stock and 218,022 shares of common stock underlying pre-funded warrants that are held by Venrock Healthcare Capital Partners II, L.P. ("VHCP II"), (ii) 176,691 shares of common stock and 88,346 shares of common stock underlying pre-funded warrants that are held by VHCP Co-Investment Holdings II, LLC ("VHCP II Co"), (iii) 942,533, shares of common stock and 471,274 shares of common stock underlying pre-funded warrants that are held by Venrock Healthcare Capital Partners III, L.P. ("VHCP III"), (iv) 94,308 shares of common stock and 47,154 shares of common stock underlying pre-funded warrants that are held by Venrock Healthcare Capital Partners III, L.P. ("VHCP III"), (iv) 94,308 shares of common stock and 47,154 shares of common stock underlying pre-funded warrants that are held by VHCP Co-Investment Holdings III, LLC ("VHCP III Co") and (v) 1,060,418 shares of common stock and 530,217 shares of common stock underlying pre-funded warrants that are held by Venrock Healthcare Capital Partners EG, L.P. ("VHCP EG"), each of which pre-funded warrants are exercisable as of April 19, 2022 or will become exercisable within 60 days after such date. VHCP Management II, LLC ("VHCPM II") is the sole general partner of VHCP II and the sole manager of VHCP II Co. VHCP Management III, LLC ("VHCPM III") is the sole general partner of VHCP III and the sole manager of VHCP III Co. VHCP MEG") is the sole general partner of VHCP III and the sole manager of VHCP Management EG, LLC ("VHCPM EG") is the sole general partner of VHCP III and the voting members of VHCPM III, VHCPM III and VHCPM EG. The address for Venrock is 7 Bryant Park, 23rd Floor, New York, NY 10018.
- (3) Based on a Schedule 13D filed by Sofinnova Venture Partners X, L.P. on March 4, 2021 and shares of common stock purchased in our April 2022 offering. Consists of 3,655,308 shares of common stock held by Sofinnova Venture Partners X, L.P., or SVP X. Sofinnova Management X, L.L.C., or SM X, the general partner of SVP X, may be deemed to have sole voting power and sole dispositive power over the shares held by SVP X, and Dr. James I. Healy, and Dr. Maha Katabi, the managing members of SM X, may be deemed to have shared voting and dispositive power with respect to the shares held by SVP X. Such individuals disclaim beneficial ownership of such shares except to the extent of their pecuniary interest therein. The principal address of SVP X is c/o Sofinnova, 3000 Sand Hill Road, Building 4, Suite 250, Menlo Park, California 94025.
- (4) Based solely on a Schedule 13G/A filed by Deerfield Mgmt, L.P., Deerfield Partners, L.P., Deerfield Management Company, L.P. and James E. Flynn on February 11, 2022 and shares of common stock purchased in our April 2022 offering. Consists of 3,420,736 shares of our common stock held by Deerfield Partners, L.P., of which Deerfield Management Company, L.P. is the investment advisor and Deerfield Mgmt, L.P. is the general partner. J.E. Flynn Capital, LLC is the general partner of Deerfield Mgmt, L.P. James E. Flynn is the managing member of J.E. Flynn Capital, LLC. Deerfield Partners, L.P., Deerfield Mgmt, L.P., Deerfield Management Company, L.P. and James E. Flynn may be deemed to share voting and dispositive power over the shares held by Deerfield Partners, L.P. The principal address of each reporting person is 345 Park Avenue South, 12th Floor, New York, New York 10010.
- (5) Based solely on a Schedule 13G filed by Deep Track Capital L.P., Deep Track Biotechnology Master Fund, Ltd. and David Kroin on April 18, 2022 and shares of common stock purchased in our April 2022 offering. Consists of 3,250,000 shares of our common stock over which Deep Track Capital L.P., Deep Track Biotechnology Master Fund, Ltd. and David Kroin are deemed to share voting and dispositive power. The principal address of Deep Track Capital L.P. is 200 Greenwich Ave, 3rd Floor, Greenwich, CT 06830. The principal address of Deep Track Biotechnology Master Corporate Limited, 190 Elgin Ave, George Town, KY1-9001, Cayman Islands The address of David Kroin is c/o Deep Track Capital, LP, 200 Greenwich Ave, 3rd Floor, Greenwich, CT 06830.

- (6) Based solely on a Form 4 filed by (i) Pivotal bioVenture Partners Fund I, L.P., or Pivotal, (ii) Pivotal bioVentures Partners Fund I G.P., or Pivotal GP and (iii) Pivotal bioVentures Partners Fund I U.G.P., Ltd., or the Ultimate General Partner on April 20, 2022. Consists of 2,661,154 shares of our common stock directly held by Pivotal. Pivotal GP is the general partner of Pivotal. The Ultimate General Partner is the general partner of Pivotal GP. The Ultimate General Partner is wholly-owned by Pivotal Partners. Pivotal Partners. Pivotal Partners is wholly-owned by Pivotal Life Sciences Holdings Limited, or Pivotal Life Sciences. Pivotal Life Sciences is wholly-owned by Nan Fung Life Sciences Holdings Limited, or Nan Fung Life Sciences, and Nan Fung Life Sciences is wholly owned by NF Investment Holdings Limited, or NFIHL, which is wholly owned by Nan Fung Group Holdings Limited, or NFGHL. The members of the Executive Committee of NFGHL make investment decisions with respect to the securities held by Pivotal. Mr. Kam Chung Leung, Mr. Frank Kai Shui Seto, Mr. Vincent Sai Sing Cheung, Mr. Pui Kuen Cheung, Mr. Kin Ho Kwok, Ms. Vanessa Tih Lin Cheung, Mr. Meng Gao and Mr. Chun Wai Nelson Tang are the members of the Executive Committee of NFGHL. The address of the principal business office of Pivotal, Pivotal GP, the Ultimate General Partner, Pivotal Partners, and Pivotal Life Sciences is 1 114 Avenue of the Americas, 22nd Floor, New York, New York 10036. The address of NFIHL is: Vistra Corporate Services Centre, Wickhams Cay II, Roads Town, Tortola, VG1110 British Virgin Islands.
- (7) Based solely on a Schedule 13G filed by entities associated with Rock Springs Capital Management LP ("RSCM") on April 25, 2022. Consists of (i) 2,200,000 shares of common stock directly beneficially owned by Rock Springs Capital Master Fund LP ("Master Fund") and (ii) 252,637 shares directly beneficially owned by Four Pines Master Fund LP ("Four Pines"). The Master Fund is a Cayman Island exempted limited partnership and Four Pines is a Cayman Islands exempted limited partnership. The shares are indirectly held by RSCM, a Delaware limited partnership, and by Rock Springs Capital LLC ("RSC"), a Delaware limited liability company. RSCM serves as the investment manager to each of the Master Fund and Four Pines. RSC is the general partner of RSCM. RSCM and RSC are deemed to have shared voting and shared dispositive power over 2,452,637 shares and the Master Fund is deemed to have shared voting and shared dispositive power over 2,200,000 shares. The principal business address for RSCM and RSC is 650 South Exeter, Suite 1070, Baltimore, MD 21202, and the principal business address for Master Fund is c/o Walkers Corporate Limited, 190 Elgin Avenue, George Town, Grand Cayman, KY1-9008, Cayman Islands.
- (8) Based solely on a Schedule 13G/A filed by New Enterprise Associates 15, L.P. on February 7, 2022. Consists of 2,437,689 shares of our common stock held by New Enterprise Associates 15, L.P., or NEA 15, as the record owner. The shares directly held by NEA 15 are indirectly held by each of (a) NEA Partners 15, L.P., or NEA Partners 15, the sole general partner of NEA 15, (b) NEA 15 GP, LLC, or NEA 15 GP, the sole general partner of NEA Partners 15 and (c) each of the individual Managers, or the Managers, of NEA 15 GP. The Managers of NEA 15 GP are Forest Baskett, Anthony A. Florence, Jr., Mohamad Makhzoumi, Scott D. Sandell and Peter Sonsini. NEA Partners 15, NEA 15 GP and the Managers share voting and dispositive power with regard to the shares held by NEA 15. All indirect holders of the above referenced shares disclaim beneficial ownership of all applicable shares, except to the extent of their actual pecuniary interest therein. The principal business address of NEA 15 and NEA Ventures is 1954 Greenspring Drive, Suite 600, Timonium, MD 21093.
- (9) Based solely on a Schedule 13G/A filed by Adage Capital Partners, L.P., Adage Capital Partners GP, L.L.C. and Adage Capital Advisors, L.L.C., Robert Atchinson and Phillip Gross on February 10, 2022 and shares of common stock purchased in our April 2022 offering. Consists of 2,149,028 shares of our common stock directly owned by Adage Capital Partners, L.P. Adage Capital Partners GP, L.L.C. is the general partner of Adage Capital Partners, L.P. Adage Capital Advisors, L.L.C. is the managing member of Adage Capital Partners GP, L.L.C. Robert Atchinson and Phillip Gross are managing members of Adage Capital Advisors, L.L.C. Adage Capital Advisors, L.L.C., Adage Capital Partners GP, L.L.C., Robert Atchinson and Phillip

Gross may be deemed to share voting and dispositive power over the shares held directly by Adage Capital

Partners, L.P. The principal address of each reporting person is 200 Clarendon Street, 52nd Floor, Boston, Massachusetts 02116.

- (10) Consists of (i) 1,970,394 shares of common stock underlying pre-funded warrants that are held by Baker Brothers Life Sciences, L.P. ("Life Sciences") and (ii) 197,606 shares of common stock underlying pre-funded warrants that are held by 667, L.P. ("667", and together with Life Sciences, the "Baker Funds"), each of which pre-funded warrants are exercisable as of April 19, 2022 or will become exercisable within 60 days after such date, subject to beneficial ownership limitations. Baker Bros. Advisors LP ("BBA") is the management company and investment adviser to the Baker Funds and has sole voting and investment power with respect to the shares held by the Baker Funds. Baker Bros. Advisors (GP) LLC ("BBA-GP) is the sole general partner of BBA. The managing members of BBA-GP are Julian C. Baker and Felix J. Baker. The business address of BBA, BBA-GP, Julian C. Baker and Felix J. Baker is 860 Washington Street, 3rd Floor, New York, NY 10014.
- (11) Consists of (i) 258,575 shares of our common stock held by Mr. Bolte and (ii) 627,107 shares of our common stock underlying options held by Mr. Bolte that are exercisable as of April 19, 2022 or will become exercisable within 60 days after such date.
- (12) Consists of (i) 80,626 shares of our common stock held by Mr. Bjarke and (ii) 213,412 shares of our common stock underlying options held by Mr. Bjarke that are exercisable as of April 19, 2022 or will become exercisable within 60 days after such date.
- (13) Consists of (i) 201,262 shares of our common stock held by Mr. Jungles and (ii) 9,625 shares of our common stock underlying options held by Mr. Jungles that are exercisable as of April 19, 2022 or will become exercisable within 60 days of such date.
- (14) Consists of 33,333 shares of our common stock underlying options held by Ms. Wenkert that are exercisable as of April 19, 2022 or will become exercisable within 60 days of such date.
- (15) Consists of 52,856 shares of our common stock underlying options held by Dr. Treco that are exercisable as of April 19, 2022 or will be become exercisable within 60 days after such date.
- (16) Consists of 9,367 shares of our common stock underlying options held by Dr. Bhagat that are exercisable as of April 19, 2022 or will be become exercisable within 60 days after such date.
- (17) Consists of 9,367 shares of our common stock underlying options held by Mr. Diaz that are exercisable as of April 19, 2022 or will be become exercisable within 60 days after such date.
- (18) Consists of 9,367 shares of our common stock underlying options held by Dr. Edwards that are exercisable as of April 19, 2022 or will be become exercisable within 60 days after such date.
- (19) Consists of (i) 9,367 shares of our common stock underlying options held by Dr. Hopfner that are exercisable as of April 19, 2022 or will become exercisable within 60 days after such date and (ii) the shares set forth in footnote (6) above. Dr. Hopfner is the managing partner of the Ultimate General Partner and may be deemed to share voting and investment power over the shares held by Pivotal. Dr. Hopfner disclaims beneficial ownership of such shares except to the extent of any pecuniary interest therein.
- (20) Consists of 9,367 shares of our common stock underlying options held by Mr. Mathers that are exercisable as of April 19, 2022 or will be become exercisable within 60 days after such date.
- (21) Consists of 23,551 shares of our common stock underlying options held by Ms. Sullivan that are exercisable as of April 19, 2022 or will be become exercisable within 60 days after such date.
- (22) Consists of (i) 3,027,455 shares of common stock and (ii) 963,761 shares of common stock underlying options that are exercisable as of April 19, 2022 or will become exercisable within 60 days after such date.

DELINQUENT SECTION 16(A) REPORTS

Section 16(a) of the Exchange Act requires our directors, executive officers, and persons who beneficially own more than ten percent of our capital stock to file reports on Forms 3, 4 and 5 with the SEC concerning their ownership of, and transactions in, our capital stock.

To our knowledge, based solely on our review of the copies of such reports furnished to us and on the representations of the reporting persons, all of these reports were timely filed for the fiscal year ended December 31, 2021, except for one late Form 4 filing for each of Axel Bolte, Henric Bjarke, Steven Jungles, our former executive officer, and Stephen Basso, our former executive officer, covering one transaction each.

REPORT OF THE AUDIT COMMITTEE OF THE BOARD OF DIRECTORS

The audit committee has reviewed our audited consolidated financial statements for the fiscal year ended December 31, 2021 and discussed them with the Company's management and Ernst & Young LLP, the Company's independent registered public accounting firm.

The audit committee has also received from, and discussed with, Ernst & Young LLP various communications that Ernst & Young LLP is required to provide to the audit committee, including the matters required to be discussed by the applicable requirements of the Public Company Accounting Oversight Board and the SEC.

In addition, Ernst & Young LLP provided the audit committee with the written disclosures and the letter required by applicable requirements of the Public Company Accounting Oversight Board regarding the independent registered public accounting firm's communications with the audit committee concerning independence, and the audit committee has discussed with the Company's independent registered public accounting firm their independence.

Based on the review and discussions referred to above, the audit committee recommended to the board of directors that the audited consolidated financial statements be included in the Company's Annual Report on Form 10-K for the year ended December 31, 2021.

BY THE AUDIT COMMITTEE OF THE BOARD OF DIRECTORS OF INOZYME PHARMA, INC.

Lynne Sullivan Sarah Bhagat Martin Edwards

April 27, 2022

HOUSEHOLDING

Some banks, brokers and other nominee record holders may be participating in the practice of "householding" proxy statements and annual reports. This means that only one copy of our documents, including the Notice of Internet Availability of Proxy Materials or, if requested, the 2021 Annual Report and proxy statement, may have been sent to multiple stockholders in your household unless you have requested otherwise. We will promptly deliver a separate copy of any of the above documents to you if you write or call us at Inozyme Pharma, Inc., 321 Summer Street, Suite 400, Boston, Massachusetts, 02210, Attention: Corporate Secretary, telephone: (857) 330-4340. If you want to receive separate copies of the Notice of Internet Availability of Proxy Materials, proxy statement or annual report to stockholders in the future, or if you are receiving multiple copies and would like to receive only one copy per household, you should contact your bank, broker or other nominee record holder, or you may contact us at the above address and phone number.

STOCKHOLDER PROPOSALS FOR OUR 2023 ANNUAL MEETING OF STOCKHOLDERS

A stockholder who would like to have a proposal considered for inclusion in our 2023 proxy statement must submit the proposal in accordance with the procedures outlined in Rule 14a-8 of the Exchange Act so that it is received by us no later than December 28, 2022. However, if the date of the 2023 annual meeting of stockholders is changed by more than 30 days from the date of the previous year's meeting, then the deadline is a reasonable time before we begin to print and send our proxy statement for the 2023 annual meeting of stockholders. SEC rules set standards for eligibility and specify the types of stockholder proposals that may be excluded from a proxy statement. Stockholder proposals should be addressed to Inozyme Pharma, Inc., 321 Summer Street, Suite 400, Boston, Massachusetts, 02210, Attention: Corporate Secretary.

If a stockholder wishes to propose a nomination of persons for election to our board of directors or present a proposal at an annual meeting but does not wish to have the proposal considered for inclusion in our proxy statement and proxy card, our amended and restated bylaws establish an advance notice procedure for such nominations and proposals. Stockholders at an annual meeting may only consider proposals or nominations specified in the notice of meeting or brought before the meeting by or at the direction of the board of directors or by a stockholder of record on the record date for the meeting, who is entitled to vote at the meeting and who has delivered timely notice in proper form to our corporate secretary of the stockholder's intention to bring such business before the meeting.

The required notice must be in writing and received by our corporate secretary at our principal executive offices not less than 90 days nor more than 120 days prior to the first anniversary of the preceding year's annual meeting. However, in the event that the date of the annual meeting is advanced by more than 30 days, or delayed by more than 60 days, from the first anniversary of the preceding year's annual meeting, a stockholder's notice must be so received no earlier than the 120th day prior to such annual meeting and not later than the close of business on the later of (A) the 90th day prior to such annual meeting and (B) the tenth day following the day on which notice of the date of such annual meeting was mailed or public disclosure of the date of such annual meeting was made, whichever first occurs. For stockholder proposals to be brought before the 2023 annual meeting of stockholders, the required notice must be received by our corporate secretary at our principal executive offices no earlier than February 10, 2023 and no later than March 12, 2023.

OTHER MATTERS

Our board of directors does not know of any other matters to be brought before the Annual Meeting. If any other matters not mentioned in this proxy statement are properly brought before the meeting, the individuals named in the proxy intend to use their discretionary voting authority under the proxy to vote the proxy in accordance with their best judgment on those matters.

By Order of the Board of Directors

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Axel Bolte President and Chief Executive Officer



YO	UR VOTE IS IMPORTANT! PLEASE VOTE BY:
505 2015	INTERNET Go To: www.proxypush.com/INZY Cast your vote online Have your Proxy Card ready Follow the simple instructions to record your vote
	PHONE Call 1-866-509-1045 • Use any touch-tone telephone • Have your Proxy Card ready • Follow the simple recorded instructions
\bowtie	 MAIL Mark, sign and date your Proxy Card Fold and return your Proxy Card in the postage-paid envelope provided
*	You must register in advance at www.proxydocs.com/INZY in order to attend the meeting online and to vote your shares electronically during the meeting

Inozyme Pharma, Inc.

Annual Meeting of Stockholders

For Stockholders of record as of April 11, 2022

TIME: Friday, June 10, 2022 9:00 AM, Eastern Time PLACE: Annual Meeting to be held live via Internet. Please visit

www.proxydocs.com/INZY for more details.

This proxy is being solicited on behalf of the Board of Directors

The undersigned hereby appoints Axel Bolte, Henric Bjarke and Sanjay Subramanian, and each of them, as the true and lawful attorneys of the undersigned, with full power of substitution and revocation, and authorizes them, and each of them, to vote all the shares of capital stock of Inozyme Pharma, Inc. which the undersigned is entitled to vote at the Annual Meeting of Stockholders to be held virtually on June 10, 2022 at 9:00 AM, Eastern Time and any adjournment thereof upon the matters specified and upon such other matters as may be properly brought before the meeting or any adjournment thereof, conferring authority upon such true and lawful attorneys to vote in their discretion on such other matters as may properly come before the meeting and revoking any proxy heretofore given.

THE SHARES REPRESENTED BY THIS PROXY WILL BE VOTED AS DIRECTED OR, IF NO DIRECTION IS GIVEN, SHARES WILL BE VOTED FOR THE ELECTION OF DIRECTORS IN PROPOSAL 1 AND FOR PROPOSAL 2. THIS PROXY, WHEN PROPERLY EXECUTED, WILL BE VOTED IN THE MANNER DIRECTED HEREIN. IN THEIR DISCRETION, THE NAMED PROXIES ARE AUTHORIZED TO VOTE UPON SUCH OTHER MATTERS THAT MAY PROPERLY COME BEFORE THE MEETING OR ANY ADJOURNMENT OR POSTPONEMENT THEREOF.

You are encouraged to specify your choice by marking the appropriate box (SEE REVERSE SIDE) but you need not mark any box if you wish to vote in accordance with the Board of Directors' recommendation. The Named Proxies cannot vote your shares unless you sign (on the reverse side) and return this card.

PLEASE BE SURE TO SIGN AND DATE THIS PROXY CARD AND MARK ON THE REVERSE SIDE

1.

2.

Inozyme Pharma, Inc.

Annual Meeting of Stockholders

Please make your marks like this: X

THE BOARD OF DIRECTORS RECOMMENDS A VOTE:

FOR EACH OF THE NOMINEES IN PROPOSAL 1 AND FOR PROPOSAL 2.

BOARD OF DIRECTORS RECOMMEND PROPOSAL YOUR VOTE The election of two Class II directors, Sarah Bhagat and Reinaldo Diaz, each to serve for a three-year term expiring at the 2025 annual meeting of stockholders. WITHHOLD FOR 1.01 Sarah Bhagat FOR \Box 1.02 Reinaldo Diaz FOR FOR ABSTAIN FOR The ratification of the appointment of Ernst & Young LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2022.

Note: The proxies are authorized to vote, in their discretion, upon such other business that may properly come before the Annual Meeting or any adjournment or postponement thereof.

You must register to attend the meeting online and/or participate at www.proxydocs.com/INZY

Authorized Signatures - Must be completed for your instructions to be executed.

Please sign exactly as your name(s) appears on your account. If held in joint tenancy, all persons should sign. Trustees, administrators, etc., should include title and authority. Corporations should provide full name of corporation and title of authorized officer signing the Proxy/Vote Form.

Signature (and Title if applicable)

Date

Signature (if held jointly)

Date