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DESIGNATION (IF ANY)
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Your vote matters – here’s how to vote!

You may vote online or by phone instead of mailing this card.



Votes submitted electronically must be received by 1:00am, Eastern Time, on June 4, 2019.



Online
Go to www.investorvote.com/IDRA or scan the QR code – login details are located in the shaded bar below.



Phone
Call toll free 1-800-652-VOTE (8683) within the USA, US territories and Canada



Save paper, time and money! Sign up for electronic delivery at www.investorvote.com/IDRA

Using a **black ink** pen, mark your votes with an **X** as shown in this example. Please do not write outside the designated areas.



2019 Annual Meeting Proxy Card

1234 5678 9012 345

▼ IF VOTING BY MAIL, SIGN, DETACH AND RETURN THE BOTTOM PORTION IN THE ENCLOSED ENVELOPE. ▼

A Proposals – The Board of Directors recommends a Vote FOR the nominees listed below and FOR Proposals 2, 3, 4 and 5.

1. Election of Directors

	For	Withhold		For	Withhold
01 - Mark Goldberg, M.D.	<input type="checkbox"/>	<input type="checkbox"/>	02 - Carol A. Schafer	<input type="checkbox"/>	<input type="checkbox"/>



2. Approval of the advisory vote on executive compensation

For	Against	Abstain
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. Approval of amendment to 2013 Share Incentive Plan

For	Against	Abstain
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. Approval of amendment to 2017 Employee Stock Purchase Plan

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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5. Ratification of the selection of Ernst & Young LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2019

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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B Authorized Signatures – This section must be completed for your vote to count. Please date and sign below.

Please sign this proxy exactly as your name appears hereon. Joint owners should each sign personally. Trustees and other fiduciaries should indicate the capacity in which they sign. If a corporation or partnership, this signature should be that of an authorized officer who should state his or her title.

Date (mm/dd/yyyy) – Please print date below.

Signature 1 – Please keep signature within the box.

Signature 2 – Please keep signature within the box.



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IDERA PHARMACEUTICALS, INC.

ANNUAL MEETING OF STOCKHOLDERS

Tuesday, June 4, 2019

8:30 a.m.

Idera Pharmaceuticals, Inc.

505 Eagleview Boulevard

Suite 212

Exton, PA 19341



Small steps make an impact.

Help the environment by consenting to receive electronic delivery, sign up at www.investorvote.com/IDRA



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Proxy – Idera Pharmaceuticals, Inc.



Idera Pharmaceuticals, Inc.
505 Eagleview Boulevard
Suite 212
Exton, PA 19341

This proxy is solicited by the Board of Directors for use at the Annual Meeting of Stockholders on June 4, 2019.

The undersigned hereby appoints Mr. Vincent J. Milano and Mr. Bryant D. Lim, and each of them, with full power of substitution, to vote, as designated below, all the shares of Idera Pharmaceuticals, Inc. common stock held of record by the undersigned at the close of business on April 18, 2019, at the 2019 annual meeting of stockholders, to be held June 4, 2019, and at any and all adjournments or postponements thereof. The undersigned hereby revokes any and all earlier dated proxies with respect to the annual meeting. This proxy, when properly executed, will be voted in the manner directed herein by the undersigned. If no direction is made, this proxy will be voted FOR each of the nominees for election as a Class III member of the Board of Directors, FOR the approval of the advisory vote on executive compensation, FOR approval of an amendment to the 2013 Share Incentive Plan, FOR approval of an amendment to the 2017 Employee Stock Purchase Plan, and FOR ratification of the selection of Ernst & Young LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2019.

If any other business is presented at the annual meeting, including matters incidental to the conduct of the meeting or otherwise, this proxy will be voted by those named in this proxy in their best judgment. At the present time, the board of directors knows of no other business to be presented at the meeting.

THIS PROXY WHEN PROPERLY EXECUTED WILL BE VOTED AS DIRECTED OR, IF NO DIRECTION IS GIVEN, WILL BE VOTED AS THE BOARD RECOMMENDS.

See reverse for voting instructions.

C Non-Voting Items

Change of Address – Please print new address below.

Meeting Attendance

Mark box to the right if you plan to attend the Annual Meeting.

