

BENSON HILL®

BENSON HILL, INC.
1001 NORTH WARSON ROAD
ST. LOUIS, MO 63132



**SCAN TO
VIEW MATERIALS & VOTE**



VOTE BY INTERNET

Before The Meeting - Go to www.proxyvote.com or scan the QR Barcode above

Use the Internet to transmit your voting instructions and for electronic delivery of information up until 11:59 p.m. Eastern Time on July 17, 2024.

Have your proxy card in hand when you access the web site and follow the instructions to obtain your records and to create an electronic voting instruction form.

During The Meeting - Go to www.virtualshareholdermeeting.com/BHIL2024

You may attend the meeting via the Internet and vote during the meeting. Have the information that is printed in the box marked by the arrow available and follow the instructions.

VOTE BY PHONE - 1-800-690-6903

Use any touch-tone telephone to transmit your voting instructions up until 11:59 p.m. Eastern Time on July 17, 2024. Have your proxy card in hand when you call and then follow the instructions.

VOTE BY MAIL

Mark, sign and date your proxy card and return it in the postage-paid envelope we have provided or return it to Vote Processing, c/o Broadridge, 51 Mercedes Way, Edgewood, NY 11717.

YOUR VOTE IS IMPORTANT

We strongly recommend that you vote in advance of the Virtual Annual Meeting, even if you plan to access the meeting.

TO VOTE, MARK BLOCKS BELOW IN BLUE OR BLACK INK AS FOLLOWS:

V52908-P15282

KEEP THIS PORTION FOR YOUR RECORDS
DETACH AND RETURN THIS PORTION ONLY

THIS PROXY CARD IS VALID ONLY WHEN SIGNED AND DATED.

BENSON HILL, INC.

The Board of Directors recommends you vote FOR Proposals 1, 2, 3, 4 and 5:

1. Election of Directors

Nominees:

For Against Abstain

For Against Abstain

- 1a. Adrienne Elsner
- 1b. DeAnn Brunts
- 1c. J. Stephan Dolezalek
- 1d. Daniel Jacobi
- 1e. Richard Mack
- 1f. Molly Montgomery
- 1g. Craig Rohr
- 1h. Linda Whitley-Taylor

2. To ratify the appointment of Ernst & Young LLP as the independent registered public accounting firm of Benson Hill, Inc. for the fiscal year ending December 31, 2024.

- 3. To amend our Certificate of Incorporation to effect a reverse stock split of the outstanding shares of our common stock at a ratio in the range of 1-for-10 to 1-for-50, with such ratio to be determined at the discretion of our Board of Directors.
- 4. To amend our Certificate of Incorporation to provide for the exculpation of our officers as permitted by Delaware law.
- 5. To approve the adjournment of our Annual Meeting to a later date or dates if our Board of Directors deems necessary or appropriate, including to solicit additional proxies in favor of the other proposals.

NOTE: To transact any other business as may properly come before our Annual Meeting or any adjournment or postponement thereof.

For any other matter properly coming before the Annual Meeting of Stockholders, this proxy will be voted at the discretion of the proxy holder.

Please sign exactly as your name(s) appear(s) hereon. When signing as attorney, executor, administrator, or other fiduciary, please give full title as such. Joint owners should each sign personally. All holders must sign. If a corporation or partnership, please sign in full corporate or partnership name by authorized officer.

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Signature [PLEASE SIGN WITHIN BOX]

Date

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Signature (Joint Owners)

Date

Important Notice Regarding the Availability of Proxy Materials for the Annual Meeting:

The Proxy Statement, Annual Report to Security Holders, and Form 10-K are available at
www.proxyvote.com.

V52909-P15282

BENSON HILL, INC.
Annual Meeting of Stockholders
July 18, 2024 9:00 a.m. Central Time
This proxy is solicited by the Board of Directors

By signing the proxy, the undersigned stockholder hereby revokes all prior proxies and appoints Adrienne Elsner and Daniel J. Cosgrove, and each of them, with full power of substitution, as proxies, and hereby authorizes them to represent and to vote all shares of Benson Hill, Inc. that the undersigned is entitled to vote on the matters shown on the reverse side and any other matters which may come before the Annual Meeting to be held on July 18, 2024 at 9:00 a.m. Central Time, and at all adjournments and postponements thereof.

This proxy, when properly executed, will be voted in the manner directed herein. If no such direction is made, this proxy will be voted in accordance with the Board of Directors' recommendations.

Continued and to be signed on reverse side