BIOLINERX LTD.

For the Annual General Meeting of Shareholders to be held on June 29, 2025

THIS PROXY IS SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS

The undersigned shareholder of BioLineRx Ltd. (the "**Company**") hereby appoints Mali Zeevi and/or Raziel Fried, and each or either of them, the true and lawful attorney, agent and proxy of the undersigned, with full power of substitution, to vote, as designated on the reverse side, all of the ordinary shares of the Company which the undersigned is entitled in any capacity to vote at the Annual General Meeting of Shareholders of the Company which will be held at the offices of the Company at Modi'in Technology Park, 2 HaMa'ayan Street, Modi'in 7177871, Israel, on June 29, 2025 at 3:00 p.m. (Israel time) (the "**Meeting**"), and all adjournments and postponements thereof.

Each shareholder voting on Proposal 3 who votes via proxy, will be deemed to have confirmed that such shareholder, and any related party thereof, does not have a personal interest (as defined in the Proxy Statement for the Meeting) in Proposal 3, unless such shareholder has delivered a written notice to the Company notifying of the existence of a personal interest no later than 10:00 a.m. (Israel time) on Sunday, June 29, 2025. Any such written notice must be sent to the Company via registered mail at the Company's Offices; Attention: Chief Financial Officer.

(CONTINUED AND TO BE SIGNED ON REVERSE SIDE)	See Reverse Side	
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ANNUAL GENERAL MEETING OF SHAREHOLDERS OF

BIOLINERX LTD.

June 29, 2025

THIS PROXY, WHEN PROPERLY EXECUTED, WILL BE VOTED AS DIRECTED HEREIN. IF NO DIRECTION IS INDICATED, THIS PROXY WILL BE VOTED "FOR" THE ELECTION OF THE DIRECTORS NAMED IN ITEM 1 AND "FOR" ALL OTHER PROPOSALS.

Please mark your vote for the following resolutions as in this example B	X		
1 TO APPROVE the re-election of the following persons as Class II directors, each to serve until the Company's annual general meeting of shareholders to be held in 2028, and until their respective successors have been duly elected and qualified.	FOR	AGAINST	ABSTAIN
Dr. BJ Borman			
Dr. Raphael Hofstein			
2. TO APPROVE an increase in the Company's authorized share capital, and to amend the Company's Articles of Association accordingly.	FOR	AGAINST	ABSTAIN
 TO APPROVE the adoption of the renewed Compensation Policy for Executive Officers and Directors, in the form attached as <u>Appendix A</u> to the Proxy Statement for the Meeting, for a three-year period. 	□ FOR	□ AGAINST	□ ABSTAIN
4. TO APPROVE the reappointment of Kesselman & Kesselman, Certified Public Accountants (Isr.), a member firm of PricewaterhouseCoopers International Limited, as the Company's independent registered public accounting firm for the year ending December 31, 2025, and until the Company's next annual general meeting of shareholders, and to authorize the Audit Committee of the Board of Directors to fix the compensation of said auditors in accordance with the scope and nature of their services.	FOR □	AGAINST	ABSTAIN
Name:			
Number of shares:			
Signature:			
Date:			
NOTE: Please mark date and sign exactly as the name(s) appear on this please sign the full corporate name by a duly authorized officer. Executor state their full title or capacity. Joint owners should each sign.			