HEPION PHARMACEUTICALS. INC.

PROXY FOR ANNUAL MEETING TO BE HELD ON JUNE 12, 2025 THIS PROXY IS SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS

The undersigned hereby appoints, John Brancaccio, as proxy with full power of substitution, to represent and to vote all the shares of common stock of Hepion Pharmaceuticals, Inc. (the "Company"), which the undersigned would be entitled to vote, at the Company's Annual Meeting of Stockholders to be held on June 12, 2025 and at any adjournments thereof, subject to the directions indicated on this Proxy Card.

In their discretion, the proxy is authorized to vote upon any other matter that may properly come before the meeting or any adjournments thereof.

THIS PROXY WILL BE VOTED IN ACCORDANCE WITH THE SPECIFICATIONS MADE, BUT IF NO CHOICES ARE INDICATED, THIS PROXY WILL BE VOTED FOR THE ELECTION OF ALL NOMINEES AND FOR THE PROPOSALS LISTED BELOW.

This proxy is governed by the laws of the State of Delaware.

IMPORTANT—This Proxy must be signed and dated below.

Important Notice Regarding the Availability of Proxy Materials for the Annual Meeting of Stockholders to be held on June 12, 2025 at 9:00 am local time at the offices of Sheppard Mullin Richter & Hampton, 30 Rockefeller Plaza, New York, NY 10112. The proxy statement and the 2024 Annual Report on Form 10-K are available at https://annualgeneralmeetings.com/hepa2025.

THIS IS YOUR PROXY

YOUR VOTE IS IMPORTANT!

Dear Stockholder:

We cordially invite you to attend the Annual Meeting of Stockholders of Hepion Pharmaceuticals, Inc. to be held at the offices of Sheppard Mullin Richter & Hampton, 30 Rockefeller Plaza, New York, NY 10112, on June 12, 2025, beginning at 9:00 a.m. local time.

Please read the proxy statement which describes the proposals and presents other important information, and complete, sign and return your proxy promptly in the enclosed envelope.

THE BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" PROPOSALS 1-4

1. Election of I	Directors							
Nominees.		FOR	WITHHOLD			FOI	R WITHHOLD	1
01.	John P. Brancaccio			03.	Kaouthar Lbiati, M.I) .		
02.	Timothy Block, Ph.D) . 🗆		04.	Michael Purcell			
2. Proposal to	,	ent of Grass FOR	si & Co., CPAs, P.C. a	as our independent re		nting firm for the fisc ABSTAIN	al year ending Dec	ember 31, 2025.
 3. Proposal to approve an amendment to the Company's Certificate of Incorporation, as amended (the "Certificate of Incorporation") to effect a reverse stock split of the Company's common stock at a ratio of between 1-for-5 and 1-for-20, with such ratio to be determined at the sole discretion of the board of directors of the Company and with such Reverse Stock Split to be effected at such time and date, if at all, as determined by the Board in its sole discretion. POR AGAINST ABSTAIN 								
4. Proposal to		isory basis, FOR	the compensation of	of the Company's nam		ABSTAIN		
Important: Please sign exactly as name appears on this proxy. When signing as attorney, executor, trustee, guardian, corporate officer, etc., please indicate full title.								
Date:								
Signature:								
Signature:								
Title:								
I agree to receive all future communications related to these holdings electronically via the email address provided below. I understand I am able to								

change this selection at any time in the future.

EMAIL ADDRESS:

Voting Instructions

You may vote your proxy in the following ways:

- ¹ Login to <u>https://annualgeneralmeetings.com/hepa2025</u>
- Call the second second

🖃 Via Mail:

Pacific Stock Transfer Company c/o Proxy Department 6725 Via Austi Parkway Las Vegas, NV 89119

CONTROL NUMBER

You may vote by Internet 24 hours a day, 7 days a week. Internet voting is available through 11:59 p.m., prevailing time, on June 11, 2025.

Your Internet vote authorizes the named proxies to vote in the same manner as if you marked, signed and returned your proxy card.