## **XENON PHARMACEUTICALS INC.**

Proxy Form - Annual Meeting of Shareholders of Xenon Pharmaceuticals Inc. (the "Corporation") held on June 1, 2023 (the "Meeting")

## **Notes to Proxy**

1. This proxy must be signed by a holder or his or her or its attorney duly authorized in writing. If you are an individual, please sign exactly as your name appears on this proxy. If the holder is a corporation, a duly authorized officer or attorney of the corporation must sign this proxy, and if the corporation has a corporate seal, its corporate seal should be affixed.

2. If the common shares of the Corporation (the "**Common Shares**") are registered in the name of an executor, administrator or trustee, please sign exactly as your name appears on this proxy. If the Common Shares are registered in the name of a deceased or other holder, the proxy must be signed by the legal representative with his or her name printed below his or her signature, and evidence of authority to sign on behalf of the deceased or other holder must be attached to this proxy.

3. A shareholder has the right to appoint a person to attend and act for him or her or it and on his or her or its behalf at the Meeting other than the persons designated in this form of proxy. Such right may be exercised by filling in the name of such person in the blank space provided and striking out the names of management's nominees. A person appointed as nominee to represent a shareholder need not be a shareholder of the Corporation. A person appointed as your proxyholder must be present at the Meeting to vote.

4. Beneficial holders may be forwarded either a form of proxy already signed by the intermediary or a voting instruction form to allow them to direct the voting of Common Shares they beneficially own. Beneficial holders should follow instructions for voting conveyed to them by their intermediaries. Some holders may own Common Shares as both a registered and a beneficial holder; in which case you may receive more than one Proxy Statement and Management Information Circular and will need to vote separately as a registered and beneficial holder.

5. If Common Shares are held by two or more individuals, any one of them present or represented by proxy at the Meeting may, in the absence of the other or others, vote at the Meeting. However, if one or more of them are present or represented by proxy, they must vote together the number of Common Shares indicated on the proxy.

6. This proxy confers discretionary authority on the person appointed hereby to vote in his or her discretion with respect to amendments or variations to the matters identified in the Notice of Meeting accompanying this proxy and any other matters which may properly come before the Meeting or any adjournment or postponement thereof.

All holders should refer to the Proxy Statement and Management Information Circular for further information regarding completion and use of this proxy and other information pertaining to the Meeting.

#### This proxy is solicited by and on behalf of the management and the Board of Directors of the Corporation.

(Continued and to be signed on the reverse side.)

# ANNUAL MEETING OF SHAREHOLDERS OF XENON PHARMACEUTICALS INC.

### June 1, 2023

## **PROXY VOTING INSTRUCTIONS**

INTERNET - Access "www.voteproxy.com" and follow the on-screen instructions or scan the QR code with your smartphone. Have your proxy card available when you access the web page.

FAX AND EMAIL - You may alternatively fax your proxy to 718-765-8730 or scan and email to proxy@amstock.com.

TELEPHONE - Call toll-free 1-800-PROXIES (1-800-776-9437) in the United States and Canada or 1-718-921-8500 from other countries from any touch-tone telephone and follow the instructions. Have your proxy card available when you call.

MAIL - Complete, sign, date and mail your proxy card in the envelope provided.

ONLINE AT THE MEETING - To vote during the Meeting, please visit https://web.lumiagm.com/254509977 and log in with your control number. The password will be "xenon2023" (case sensitive).

ALL PROXIES MUST BE RECEIVED BY 11:59 P.M. (EDT) ON MAY 30, 2023.

#### PLEASE MARK YOUR VOTE IN BLUE OR BLACK INK AS SHOWN HERE $\overline{\times}$

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	ANAGEMENT RECOMMENDS VOTING "FOR" ALL OF THE FOLLOW	WING ITEMS.					
1.	Election of Directors	FOR	AGAINST				
	Simon Pimstone						
	Dawn Svoronos						
	Mohammad Azab				A.		
	Steven Gannon				A) a haldar(a) af Cu		
	Elizabeth Garofalo				g holder(s) of Co on"), hereby appoir		
	Patrick Machado				ation or failing him d of any of the for		
	lan Mortimer			OR, IIISIea			
	Gary Patou			Print the nam	ne of the person you are a		
			NST ABSTAIN	as proxy o	f the undersigned,		
•	Compensation of Named Executive Officers Approve, on an advisory basis, the compensation of the Corporatio				e with the directio t may properly co		
	named executive officers				n to be held at 11:		
	Appointment of Auditor	FOR	WITHHOLD		t https://web.lumiag		
	Appoint KPMG LLP as the Corporation's auditor to hold office until the next annual meeting of the Corporation or until their successors are d elected				nents thereof in the if the undersigned		
١.	Remuneration of Auditor	FOR AGA	NST ABSTAIN				
	Authorizing the Audit Committee of the board of directors of Corporation to fix the remuneration to be paid to the auditor of Corporation			Request f	or Financial State		
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n		I/We authorize you to act in accordance with my/our instructions set out above. I/We hereby revoke any proxy previously given with respect to the Meeting. <b>If no voting instructions are indicated</b>					
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Signature of Shareholder

Note



COMPANY NUMBER	
ACCOUNT NUMBER	

#### pointment of Proxyholder

ommon Shares of Xenon Pharmaceuticals Inc. (the t lan Mortimer, President and Chief Executive Officer of Sherry Aulin, Chief Financial Officer of the Corporation eaoina

ppointing if this person is someone other than the individuals listed above to attend, act and vote on behalf of the undersigned in n provided on all the foregoing matters and any other me before the Annual Meeting of Shareholders of the 30 a.m. PDT on June 1, 2023, to be held virtually via live m.com/254509977, and at any and all adjournments or e same manner, to the same extent and with the same were personally present, with full power of substitution.

#### ments

an securities regulations, shareholders may cial Statements and related MD&As, and may inancial Statements and related MD&As.

ancial statements by mail, you may choose n SEDAR at <u>www.sedar.com</u>.

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Id like to receive the Interim Financial &A)

ote online and wish to receive financial plete the online request for financial voting instructions.

ed, please fax this side to 718-765-8730.

Date: Signature of Shareholder Please sign exactly as your name or names appear on this Proxy. When shares are held jointly, each holder should sign. When signing as executor, administrator, attorney, trustee or guardian, please give full title as such. If the signer is a corpora please sign full corporate name by duly authorized officer, giving full title as such. If signer is a partnership, please sign in partnership name by authorized person. All proxies must be received by 11:59 P.M. EDT on Tuesday, May 30, 2023.

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Date:

is a corporation,