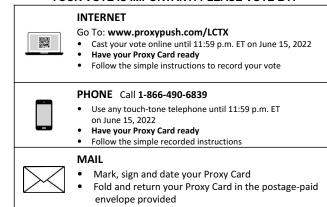


P.O. BOX 8016, CARY, NC 27512-9903

#### YOUR VOTE IS IMPORTANT! PLEASE VOTE BY:



## Lineage Cell Therapeutics, Inc.

#### Annual Meeting of Shareholders

For shareholders of record as of April 20, 2022

TIME: Thursday, June 16, 2022, 8:00 AM Pacific Time PLACE: 2173 Salk Avenue, Suite 200, Carlsbad, CA 92008

### THIS PROXY IS BEING SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS.

#### Proxy for 2022 Annual Meeting of Shareholders

The undersigned hereby appoints Brian M. Culley and Kevin L. Cook (the "Named Proxies"), as proxies and true and lawful attorneys-in-fact of the undersigned, with full power of substitution, and hereby authorizes them, and each or either of them, to represent and vote all the common shares which the undersigned is entitled to vote at the Annual Meeting of Shareholders of Lineage Cell Therapeutics, Inc. to be held on June 16, 2022 at 8:00 a.m. Pacific Time, or any adjournment or postponement thereof, as designated on the reverse side of this proxy card and as the Named Proxies deem advisable, in their discretion, on any other matter as may properly come before the meeting or any adjournment or postponement thereof, revoking any other proxy heretofore given.

This proxy, when properly executed, will be voted in the manner directed herein. If no such direction is given, this proxy will be voted in accordance with the recommendations of the Board of Directors. If other matters are properly brought before the meeting or any adjournment or postponement thereof, the Named Proxies are authorized to vote on those matters as the Named Proxies, or either of them, deem advisable, in their discretion.

You are encouraged to specify your choice by marking the appropriate box (SEE REVERSE SIDE) but you need not mark any box if you wish to vote in accordance with the Board of Directors' recommendations. The Named Proxies cannot vote your shares unless you sign (on the reverse side) and return this card.

## Lineage Cell Therapeutics, Inc.

2022 Annual Meeting of Shareholders

#### Please make your marks like this: X

# THE BOARD OF DIRECTORS RECOMMENDS A VOTE: FOR EACH NOMINEE LISTED IN PROPOSAL 1 AND FOR ON PROPOSALS 2 AND 3

	PROPOSAL	YOUR VOTE	BOARD OF DIRECTORS RECOMMENDS
1.	To elect nine directors to hold office until the 2023 annual meeting of shareholders and until their respective successors are duly elected and qualified.		
	1.01 Alfred D. Kingsley		FOR
	1.02 Dipti Amin		FOR
	1.03 Deborah Andrews		FOR
	1.04 Don M. Bailey		FOR
	1.05 Neal C. Bradsher		FOR
	1.06 Brian M. Culley		FOR
	1.07 Anula Jayasuriya		FOR
	1.08 Michael H. Mulroy		FOR
	1.09 Angus C. Russell		FOR
2.	To ratify the appointment of WithumSmith+Brown, PC as the company's independent registered public accounting firm for its fiscal year ending December 31, 2022.		FOR
3.	To approve, on an advisory basis, the compensation paid to the company's named executive officers.		FOR

4 NOTE: To transact such other business as may properly come before the meeting or any adjournment or postponement thereof.

Check here if you would like to attend the meeting in person.

Authorized Signatures - Must be completed for your instructions to be executed.

Please sign exactly as your name(s) appears on your account. If held in joint tenancy, all persons should sign. Trustees, administrators, etc., should include title and authority. Corporations should provide full name of corporation and title of authorized officer signing the Proxy/Vote Form.