

Second Quarter 2020 Financial Results and Update

06 August 2020

Forward Looking Statements

This presentation contains forward-looking statements as defined in the Private Securities Litigation Reform Act of 1995, as amended. Forward-looking statements are statements that are not historical facts, and in some cases can be identified by terms such as "may," "will," "could," "expects," "plans," "anticipates," and "believes." These statements include, but are not limited to, statements regarding the Company's business and strategic plans, the availability of cash resources, the Company's hiring expectations and expected additions to its Board of Directors or Scientific Advisory Board, the progress, design and timing of the Company's research and development programs, including the anticipated dates for the initiation, completion and readouts of its clinical trials, the Company's expectations regarding the number of patients or the timelines for the commencement of patient dosing in its clinical trials, the Company's expectations regarding the timing of IND filings, the buildout and expansion of the Company's facilities, and the Company's expectations regarding the impact of the ongoing COVID-19 pandemic, including the expected duration of disruption and immediate and long-term impact and effect on its business and operations. Although Ziopharm's management team believes that the expectations reflected in such forward-looking statements are reasonable, investors are cautioned that forward-looking information and statements are subject to various risks and uncertainties, many of which are difficult to predict and generally beyond the control of Ziopharm, that could cause actual results and developments to differ materially from those expressed in, or implied or projected by, the forward-looking information and statements. These risks and uncertainties include among other things, changes in our operating plans that may impact our cash expenditures, the uncertainties inherent in research and development, future clinical data and analysis, including whether any of Ziopharm's product candidates will advance further in the preclinical research or clinical trial process, including receiving clearance from the U.S. Food and Drug Administration or equivalent foreign regulatory agencies to conduct clinical trials and whether and when, if at all, they will receive final approval from the U.S. FDA or equivalent foreign regulatory agencies and for which indication; the strength and enforceability of Ziopharm's intellectual property rights; competition from other pharmaceutical and biotechnology companies as well as risk factors discussed or identified in the public filings with the Securities and Exchange Commission made by Ziopharm, including those risks and uncertainties listed in Ziopharm's Quarterly Report on Form 10-Q filed by Ziopharm with the Securities and Exchange Commission. In addition, the extent to which the COVID-19 pandemic impacts the Company's business, clinical development and regulatory efforts and the value of its common stock, will depend on future developments that are highly uncertain and cannot be predicted with confidence at this time, such as the ultimate duration of the pandemic, travel restrictions, quarantines, social distancing and business closure requirements, and the effectiveness of actions taken globally to contain and treat the disease. The global economic slowdown, the overall disruption of global healthcare systems and the other risks and uncertainties associated with the pandemic could have a material adverse effect on the Company's business, financial condition, results of operations and growth prospects. We are providing this information as of the date of this press release, and Ziopharm does not undertake any obligation to update or revise the information contained in this press release whether as a result of new information, future events or any other reason.

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Second Quarter Results and Update

Response to COVID-19:

- Ziopharm employees mostly working remotely with exceptions such as in our laboratory; successfully advancing internal programs; adapting to ongoing pandemic
- Assisting collaborators at National Cancer Institute and MD Anderson Cancer Center to expedite progress as those institutions handle **COVID-19** work restrictions

Sleeping Beauty TCR-T Program:

- Ziopharm completed engineering runs in Houston facility to facilitate patient TCR-T dosing at NCI
- NCI has initiated screening of patients for neoantigens and T-cell receptors (or TCRs) to expand pool for TCR-T trial
- For two Ziopharm TCR-T trials, pre-IND reviewed, and instructive feedback received from FDA related to IND process; Team focused on generating the CMC and nonclinical IND-enabling data, to support IND early next year

Controlled IL-12 Program:

- Completed enrollment in phase 2 trial of Controlled IL-12 in combination with Libtayo®
- First DIPG patient dosed in phase 1/2 pediatric trial
- Company presented updated data on Controlled IL-12 monotherapy and combination with Opdivo® at ASCO 2020

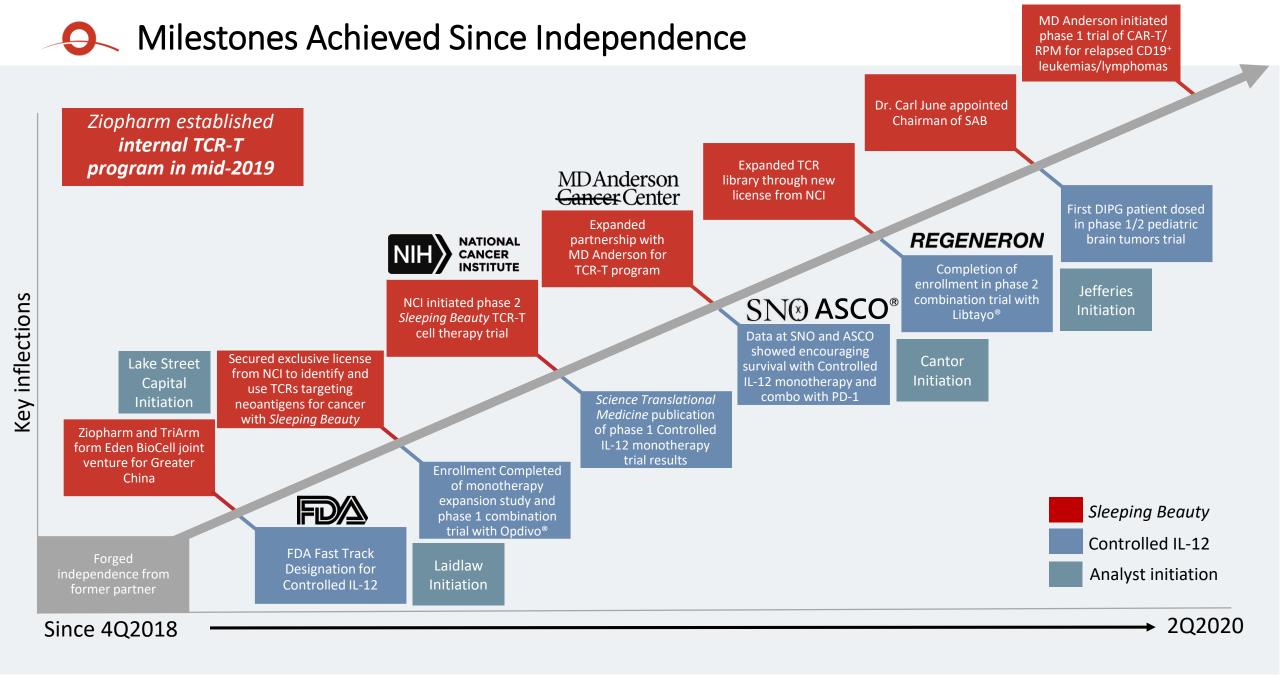
Sleeping Beauty CAR-T Program:

- Initiated phase 1 Sleeping Beauty allogeneic CD19-specific CAR-T trial using Rapid Personalized Manufacturing (RPM) technology at MD **Anderson Cancer Center**
- Eden BioCell to file IND this year for clinical trial in Taiwan to assess autologous CD19-specific CAR-T produced using RPM

Operational:

- Carl June, M.D., appointed as Chairman of Scientific Advisory Board
- Named James Huang to Ziopharm Board of Directors

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Financial Snapshot: Cash of \$153.5 million

Current resources fund operations into mid-2022; allows visibility into key clinical readouts

Selected Balance Sheet Data

Cash and cash equivalents as of 6/30/20 **\$153.5 million**

At MD Anderson from prepayment for programs to be conducted by the Company as of 6/30/20 **\$14.0 million**

Cash resources of approximately \$153.5 million, plus pre-paid balance at MD Anderson, is sufficient to:

- Fund planned operations and execute our strategy into mid-2022; recruit key personnel to support growth
- Continue the expansion of our proprietary TCR library to support our TCR hotspot mutations trial
- Support potential broadening of Controlled IL-12
 Program
- Proceed with incremental buildout of our expanded footprint on MD Anderson campus
- Allow for visibility into additional clinical milestones / data readouts in our three core programs

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Anticipated 2020 Milestones

- Advance enrollment and dosing of DIPG patients in recently commenced pediatric trial for Controlled IL-12 at Lurie Children's Hospital, Dana-Farber Cancer Institute and UCSF
- Present additional clinical data for Controlled IL-12 program; initial data from phase 2 combination with Libtayo
- Commence patient dosing in RPM CAR-T study, recently initiated at MD Anderson Cancer Center
- File IND for Sleeping Beauty autologous CD19-specific CAR-T RPM trial in Taiwan with Eden BioCell
- Dose first patient in NCI-led Sleeping Beauty TCR-T phase 2 trial targeting solid tumors
- Generate CMC and nonclinical IND-enabling data to support IND in early 2021 for Ziopharm TCR-T trial to be undertaken at MD Anderson
- Expand Scientific Advisory Board under Dr. Carl June as Chair
- Continue review of potential additions to Board of Directors; Recruitment of key executive leadership

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Broad Pipeline of Oncology Innovation

Asset	Indication	Phase 1	Phase 2
Sleeping Beauty TCR-T targeting neoantigens	Multiple solid tumors	Personalized TCR-T (NCI sponsor)	NIH NATIONAL CANCER INSTITUTE
	Multiple solid tumors	Library TCR-T ("hotspots") (Ziopharm sponsor* at MD Anderson)	
	Multiple solid tumors	Personalized TCR-T (Ziopharm sponsor* at MD Anderson)	Ziopharm oncology
Ad-RTS-hIL-12 + veledimex	*CDM	Combination with Libtayo®	25051152011
	rGBM	(Ziopharm sponsor)	REGENERON
	rGBM	Combination with	
		OPDIVO® (Ziopharm sponsor)	
	rGBM	Monotherapy expansion (Ziopharm sponsor)	Ziopharm
	Pediatric brain tumor/DIPG	Monotherapy (Ziopharm sponsor)	
Sleeping Beauty CAR-T	Leukemia/lymphoma	RPM CD19 with mbIL15 (MD Anderson sponsor)	MD Anderson Cancer Center
	Leukemia/lymphoma	RPM CD19 with mbIL15 (Eden BioCell sponsor)	Eden <mark>BioCell</mark>
ubject to FDA discussions and feedback regarding the trial phase and design.			nitiated Planned

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Thank you...

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