

President's Report Year One Update on 5-Year Strategic Plan

Maria T. Millan, MD President & CEO June ICOC Board Meeting June 29, 2023





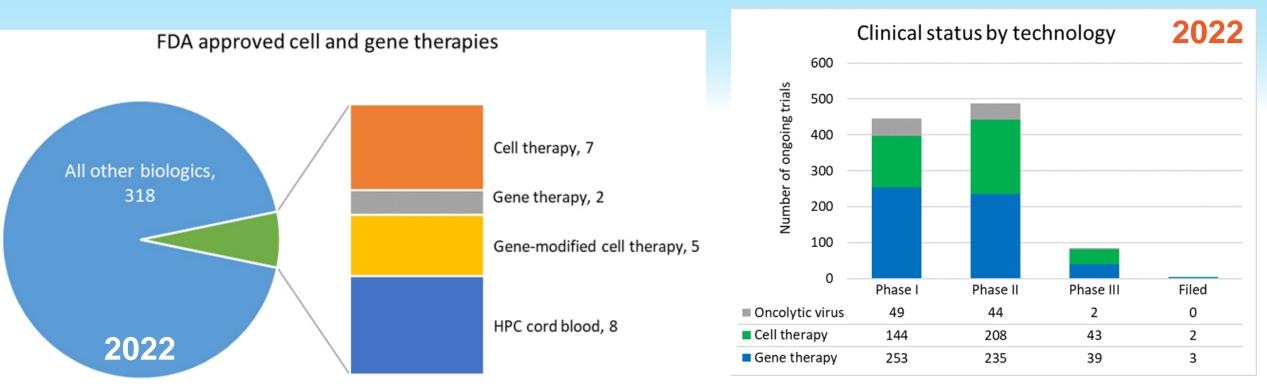


OUR MISSION

Accelerating world class science to deliver transformative regenerative medicine treatments in an equitable manner to a diverse California and world



Cell and Gene Therapy: State of the Field and CIRM



Source: FDA and Evaluate Pharma

To-Date

29 cell and gene therapies

5 expected in 2023

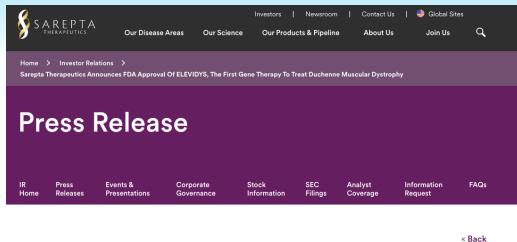
Sickle Cell Disease (2), Duchenne Muscular Dystrophy (2), Hemophilia A (1)

>90% CIRM **clinical** development programs in translational/early phase clinical trials



Recent Announcements point to Growing Potential for Cell and Gene Therapies





PDF Version

Sarepta Therapeutics Announces FDA Approval of **ELEVIDYS**, the First Gene Therapy to Treat Duchenne **Muscular Dystrophy**

06/22/23 2:02 PM EDT



Neurona Therapeutics Presents One-Year Data on the First Patient Treated with NRTX-1001 Cell Therapy in an Ongoing Phase I/II Trial for Drug-resistant Focal Epilepsy

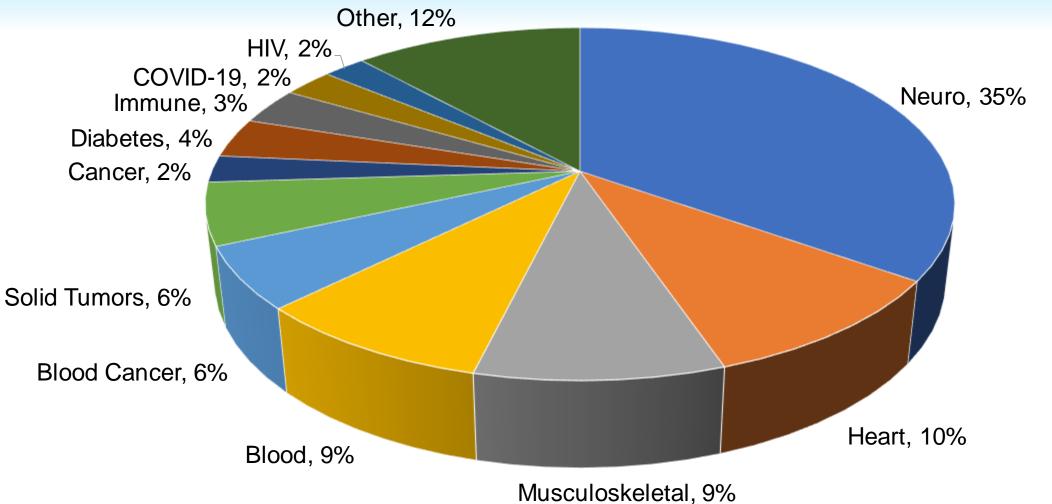
- Promising reduction (>95%) in seizure frequency at the key one-year post treatment endpoint in the first patient to receive NRTX-1001, memory improvements, and seizure-freedom since seven-months post-treatment

- Encouraging results seen in second patient dosed with NRTX-1001, where the cell therapy has been welltolerated with continued reduction (>90%) in overall monthly seizure frequency at seven-months post-treatment

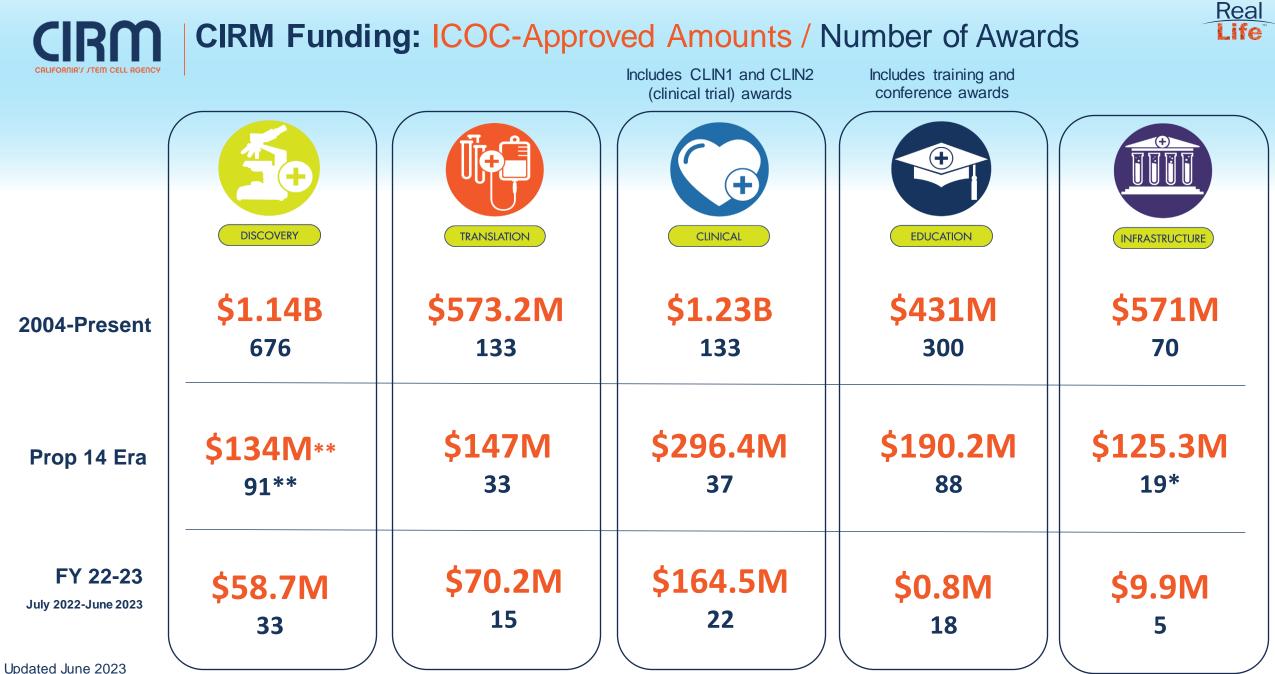
- Updated clinical and supporting preclinical data described in two oral presentations at the Annual Meeting of the International Society for Stem Cell Research (ISSCR)







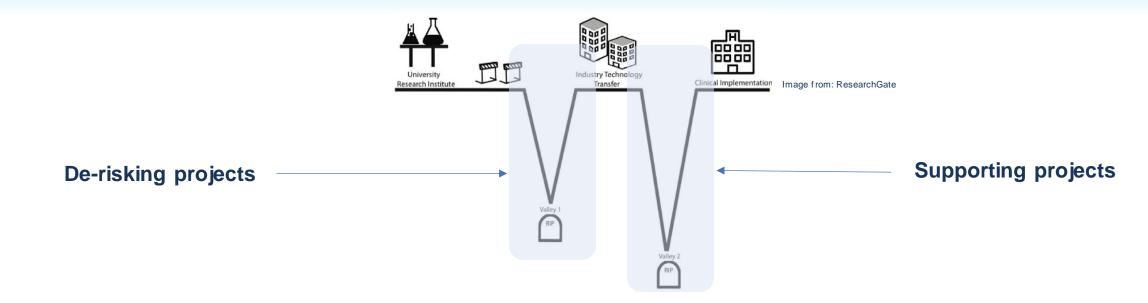
Updated June 2023 Normalized to total # of R&D awards



* # of awards does not include the supplementary Alpha Clinics awards

** Includes projects funded in prop 14 era but using prop 71 funds

FY 2022-2023 Progress on Prop 14 Strategic Plan Addressing Barriers to Delivering CGT



- Opened Shared Resource Labs RFA
- Funded First Manufacturing Programs
- Launched Alpha Clinics
- Launched Education Projects



Opened Patient Support Program RFA

Real

- Community Care Centers Concept Development
- Initiated Roadmap for Access and Affordability

CIRM De-risks Programs in Challenging Financial Markets and Leverages Partnerships

May 22, 2023

Novartis Deal Boosts CIRM Approach: The Swiss Giant Plunks Down Nearly \$88 Million for California-Financed Clinical Trial

CIRM funded the prior IND-enabling studies and ongoing clinical trial

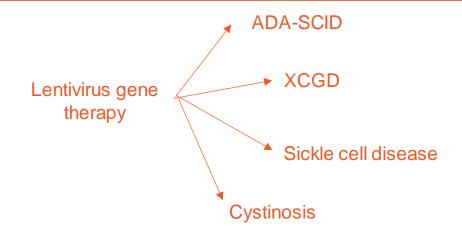
This adds to the total **\$24.4B** Industry investment in CIRM programs (10 deals between Jan 2022-June 2023)



Real

A platform therapeutic modality developed through partnership









≡ 🕬 heolth Life, But Better Fitness Food Sleep Mindfulness Relationships

Audio Live TV Q Log In



5-year-old with 'bubble boy disease' set for life-saving treatment

02:48 - Source: CNN

A drug company abandoned a treatment for 'bubble boy disease.' After a 5-year fight, this little girl is about to get it

> By <u>Elizabeth Cohen</u> and Lauren Mascarenhas, CNN Updated 5:01 PM EDT, Thu April 27, 2023

Autologous Ex Vivo Lentiviral Gene Therapy for Adenosine Deaminase Deficiency Donald B. Kohn, M.D., Claire Booth, M.B., B.S., Kit L. Shaw, Ph.D., Jinhua Xu-Bayford, D.I.P., Elizabeth Garabedian, R.N., Valentina Trevisan, M.D., Denise A. Carbonaro-Sarracino, Ph.D., Kajal Soni, B.S.c., Dayna Terrazas, R.N., Katie Smell, B.S.c., Alan Ikeda, M.D., Diego Leon-Rico, Ph.D., et al.



Treated as an infant Evie at age 10 Cured of ADA-SCID



- 50 babies treated
- 100% event-free survival at 24 months
- 90% cured at 2 yrs and 100% at 3 yrs
- better outcomes than historical BMT registry groups

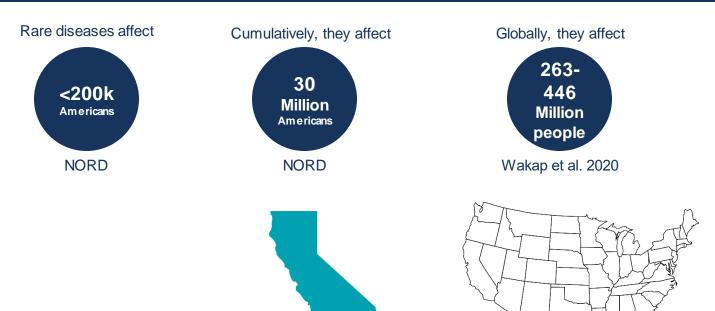
NEJM May 27, 2021



Real

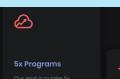
Opportunities:

Identify treatments for previously incurable and fatal diseases Develop technology and platforms that can be applied to address broad indications Develop delivery and access models that address the broad needs of CGT



RM Innovative Models to Deliver CGTs to Patients a Major Topic in 2023





Our goal is to take 5x programs from proof of concept to approval in tin to save the lives of childre affected in this generation



Focus On Children Our goal is to enable each program to treat as many

children as possible in effort to maximize GT

ix of of children eration! Epida TX will take on the same AAv9 technology programs in an effort to streamline all the process along the way.

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N-of-1 Trials

Elpida Featured at LABEST



We Can Cure Disease by Editing a Person's DNA. Why Aren't We?

A NEW PATH OF TRULY PERSONAL MEDICINES

The NEW ENGLAND IOURNAL of MEDICINE

tient-Customized Oligonucleotide Therapy for a Rare Genetic

An achievement in ultra-personalized medicine also rais questions about fairness and regulation.



Mila's Miracle Foundation presented at ASGCT



Pediatric CGT Access Think Tank

- Convened by Scientists looking for solutions on how to advance pediatric cancers & rare disease (CIRM, FDA & ARPA-H)
- Novel regulatory approaches
- Collaborations, Platform Trials, Point of Care Manufacturing
- Non-profit models, academic-based models, discussed





Consortia Models ASGCT Panel FNIH BeSpoke Gene Therapy Consortium for Pediatric Rare Disease



Partnership with Excellence





David Williams ASGCT Founders Award CIRMAwardee (NHLBI Cure Sickle Cell Partnership)



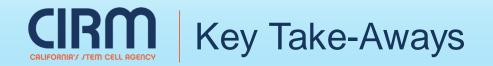




Ysabel Duron National Cancer Advisory Board by President Biden CIRM Board Member Patient Advocate The Latino Cancer Institute Joy Cavagnaro ASGCT Catalyst Award CIRM GWG Member



Helen Blau Ernest McCulloch Lecturer ISSCR Presidential Plenary CIRMAwardee





- CIRM's funding model has built a robust and diverse portfolio of discovery, therapeutics development, infrastructure and education programs.
- CIRM's 5-year Strategic Plan (2022-2027) was launched with the goal of advancing transformative science to clinical trials and therapies and to make them accessible to all in need.
- The CIRM funding model and strategy are adaptable to real-time advancements in field, emerging priorities and opportunities to advance CIRM's mission

(e.g. in rare disease, CNS disease, untreatable solid cancer and other priority areas under consideration)



How We Currently Build our Portfolio and Achieve our Strategic Objectives Through Funding

Dr. Gil Sambrano

