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Vice President, Portfolio Development and Review Grants Working Group Recommendations CLIN April 19, 2022





Mission Statement



OUR MISSION

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





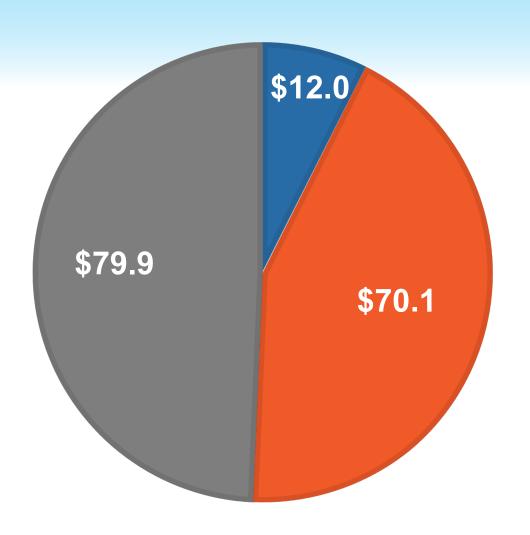
2021/22 Clinical Budget Status



Annual Allocation: \$162 million

- Amount Requested Today
- Approved Awards
- **■** Unused Balance

Amounts are shown in millions





Scientific Scoring System



Score of "1"

Exceptional merit and warrants funding.

May have minor recommendations and adjustments that do not require further review by the GWG

Score of "2"

Needs improvement and does not warrant funding at this time but could be resubmitted to address areas for improvement.

GWG should provide recommendations that are achievable (i.e., "fixable changes") or request clarification/information on key concerns.

Score of "3"

Sufficiently flawed that it does not warrant funding and the same project should not be resubmitted <u>for at least 6 months</u>.

Applications are scored by all scientific members of the GWG with no conflict.

CIRM Review Criteria



- Does the project hold the necessary significance and potential for impact? (i.e., what value does it offer; is it worth doing?)
- 2. Is the rationale sound? (i.e., does it make sense?)
- 3. Is the project well planned and designed?
- 4. Is the project feasible? (i.e., can they do it?)
- 5. Does the project address the needs of underserved communities?



GWG Composition and Roles



Scientific GWG Member



Scientific evaluation (disease area expert, regulatory, CMC, product development)

Provides scientific score on all applications

Patient Advocate or Nurse GWG Member



DEI evaluation, patient perspective on significance and potential impact, oversight on process

Provides DEI score on all applications

Provides a suggested scientific score

Scientific Specialist (non-voting)



Scientific evaluation (specialized expertise as needed)

Provides initial but not final scientific score





Title	Phase 1, open label, dose escalation study of oncolytic virus (OV)-loaded cytokine induced killer (CIK) cells in patients with advanced solid tumors		
Therapy	Cytokine-induced killer cells with oncolytic virus that target cancer cells		
Indication	Advanced refractory solid tumors		
Goal	Completion of phase 1 clinical trial to assess safety and tolerability		
Funds Requested	\$7,999,689 (co-funding: \$0)		

Maximum funds allowable for this category: \$8,000,000



CLIN2-12823: Background Information



Clinical Background: Refractory solid tumors such as colorectal, ovarian, breast, and osteosarcoma that fail to respond to standard treatments represent a significant unmet medical need.

Value Proposition of Proposed Therapy: The standard of care varies by tumor type but may involve chemotherapy, radiation, resection, and/or available drugs. If successful, the proposed therapy would provide a safe and effective therapeutic option for patients with solid tumors where approaches such as CAR-T have been less successful.

Why a stem cell or gene therapy project: Hematopoietic progenitor cells are used to manufacture the therapy.



CIRM CLIN2-12823: Similar CIRM Portfolio Projects



Application/ Award	Project Stage	Project End Date	Indication	Candidate	Mechanism of Action
TRAN	Pre-IND	Jul 2022	Ovarian cancer	Neural stem cells loaded with oncolytic virus	Neural stem cells target solid tumor cells to deliver oncolytic virus.



Previous CIRM Funding to Applicant Team



Applicant has not previously received a CIRM award.



CLIN2-12823: GWG Review



GWG Recommendation: Exceptional merit and warrants funding

Scientific Score	GWG Votes
1	14
2	1
3	0

DEI Score: 8 (scale 1-10)

CIRM Team Recommendation: Fund (concur with GWG recommendation)

CIRM Award Amount: \$ 7,999,689*

^{*}Final award shall not exceed this amount and may be reduced contingent on CIRM's final assessment of allowable costs and activities.





Title	Hematopoietic Stem Cell Gene Therapy for X-linked Chronic Granulomatous Disease (XCGD)	
Therapy	Autologous gene-corrected hematopoietic stem cells	
Indication	X-linked Chronic Granulomatous Disease (XCGD)	
Goal	Completion of IND-enabling studies and IND submission	
Funds Requested	ds Requested \$3,999,959 (co-funding: \$0)	

Maximum funds allowable for this category: \$4,000,000



CLIN1-13315: Background Information



Clinical Background: X-linked Chronic Granulomatous Disease (X-CGD) is a rare immune disorder that prevents white blood cells from killing foreign invaders. This results in severe, recurrent infections that can impact quality and length of a patient's life. X-CGD is usually diagnosed before age 5, but without treatment, children die before age 10.

Value Proposition of Proposed Therapy: The current standard of care involves ongoing antibacterial and antifungal prophylaxis and allogeneic hematopoietic stem cell transplant. If successful, the therapy offers patients the potential for immune restoration and cure.

Why a stem cell or gene therapy project: The therapeutic candidate is composed of gene-modified hematopoietic stem cells.



CIRM CLIN1-13315: Similar CIRM Portfolio Projects



Application/ Award	Project Stage	Project End Date	Indication	Candidate	Mechanism of Action
CLIN2	Phase 1/2 clinical trial	Dec 2022	XCGD	Autologous gene-corrected CD34+ cells	Lentiviral vector correction of gene defect in patient CD34+ cells.



Previous CIRM Funding to Applicant Team



Applicant has not previously received a CIRM award.



N CLIN1-13315: GWG Review



GWG Recommendation: Exceptional merit and warrants funding

Scientific Score	GWG Votes
1	8
2	7
3	0

DEI Score: 5.5 (scale 1-10)

CIRM Team Recommendation: Fund (concur with GWG recommendation)

CIRM Award Amount: \$ 3,999,959*

*Final award shall not exceed this amount and may be reduced contingent on CIRM's final assessment of allowable costs and activities.