

Gil Sambrano, PhD Vice President, Portfolio Development and Review Grants Working Group Recommendations CLIN July 28, 2022







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







Annual Allocation: \$169 million

Amount Requested TodayApproved AwardsUnused Balance

Amounts are shown in millions







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") <u>or</u> 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 **for at least 6 months**.

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





- 1. 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?

CIRM GWG Composition and Roles





CIRM Board members with Conflicts of Interest



Board members with Conflicts of Interest for CLIN applications			
CLIN2-13267	CLIN1-13315 #2		
Haifaa Abdulhaq	Judy Gasson		
Loren Alving	Leon Fine		
Ysabel Duron	Art Torres		
Elena Flowers	Karol Watson		
Christine Miaskowski			
Art Torres			
Barry Selick			
Keith Yamamoto			





Title	Phase 1 Treatment of Urethral Strictures in Humans	
Therapy	An engineered urethral segment comprising autologous urothelial, smooth muscle, and progenitor cells within a tubular scaffold.	
Indication	Patients with urethral strictures that are too long for treatment by current methods	
Goal	Completion of phase 1 clinical trial to assess safety and feasibility	
Funds Requested	\$3,841,593 (co-funding: \$0)	

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

CIRM CLIN2-13267: Background Information



Clinical Background: Stricture disease can have a profound impact on quality of life, resulting in infection, bladder stones, fistulas, sepsis, and ultimately renal failure.

Value Proposition of Proposed Therapy: Standard of care for long segment urethral strictures may include internal urethrotomy, urethroplasty, and reconstruction using grafts or vascularized flaps. Stricture recurrence along with infections and other complications are very common with these techniques. The proposed therapy offers the potential for a life-long cure for urethral strictures that eliminates complications associated with existing therapies.

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

CLIN2-13267: Similar CIRM Portfolio Projects



Application/ Award	Project Stage	Project End Date	Indication	Candidate	Mechanism of Action
TRAN	Pre-IND	Aug 2022	Urinary incontinence	iPSC-derive smooth muscle cell progenitors	Transplantation of smooth muscle cell progenitors into urethral muscle to regenerate weak urethra.





Applicant has not previously received a CIRM award.





GWG Recommendation: Exceptional merit and warrants funding

Scientific Score	GWG Votes	
1	15	
2	0	
3	0	

DEI Score: 7 (scale 1-10)

CIRM Team Recommendation: Fund (concur with GWG recommendation)

CIRM Award Amount: \$ 3,841,593*

*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	\$3,999,959 (co-funding: \$999,990)	

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

CIRM 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.

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.





Applicant has not previously received a CIRM award.





GWG Recommendation: Exceptional merit and warrants funding

Scientific Score	GWG Votes	Previous GWG Votes
1	15	8
2	0	7
3	0	0

DEI Score: 7.0 (scale 1-10) Previous DEI Score: 5.5

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.