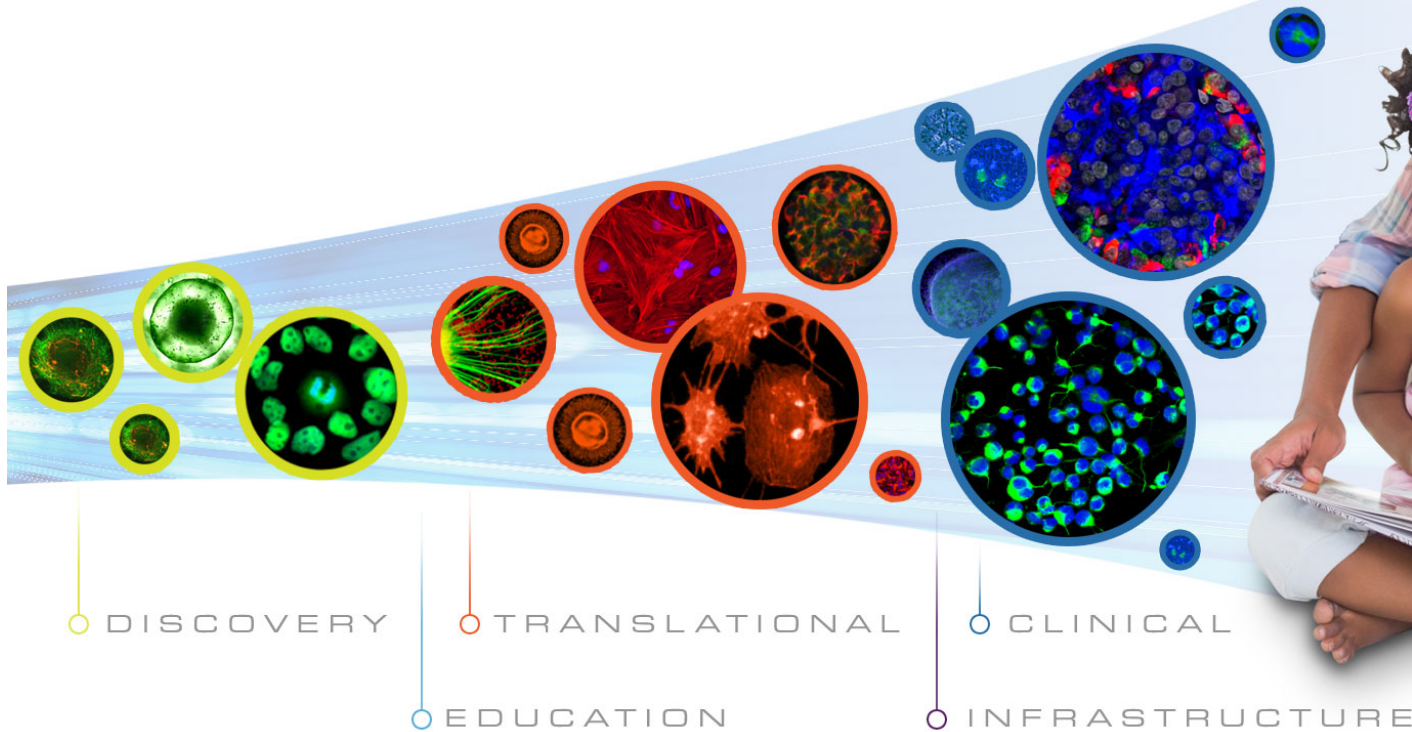


# CIRM

CALIFORNIA'S STEM CELL AGENCY

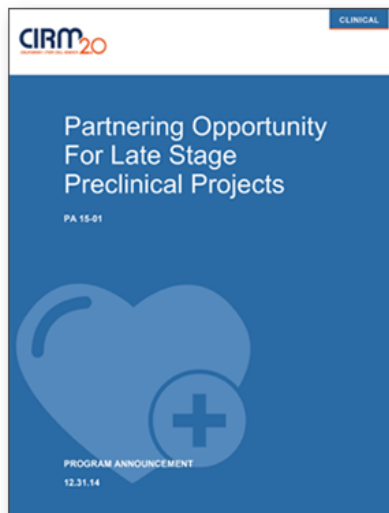


## GWG Review of Clinical Program Applications

**Rebecca Jorgenson**  
Senior Science Officer  
Portfolio Development and Review

# Clinical Stage Programs

## CLINICAL STAGE



CLIN 1



CLIN 2



CLIN 3

# Scoring System for 2.0 Applications

- Score of “1”  
*Exceptional merit and warrants funding.*
- Score of “2”  
*Needs improvement and does not warrant funding at this time but could be resubmitted to address areas for improvement.*
- Score of “3”  
*Sufficiently flawed that it does not warrant funding and the same project should not be resubmitted.*

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

# CLIN2-08334: Phase 2 Clinical Trial for Cardiomyopathy in Muscular Dystrophy Patients

**Therapy:** Allogeneic Cardiosphere-Derived Cells (CAP-1002)

**Indication:** Duchenne Muscular Dystrophy (DMD) Cardiomyopathy

**Goal:** Complete a randomized, open label Phase 2 clinical trial to test safety and efficacy of CAP-1002 in patients with cardiomyopathy secondary to DMD.

## Major Proposed Activities:

- Manufacture CAP-1002 in quantities sufficient to treat all subjects enrolled in the trial.
- Enroll and treat all subjects per the clinical protocol.

**Funds Requested:** \$3,376,259 (\$2,254,032 Co-funding)

# CLIN2-08334: Phase 2 Clinical Trial for Cardiomyopathy in Muscular Dystrophy Patients

**Budget Review:** Pass

**GWG Score:** 1\* Exceptional merit, warrants funding

- Votes for score of 1: **12**
- Votes for score of 2: **1**
- Votes for score of 3: **0**

**CIRM Team Recommendation:** Fund (concur with GWG recommendation)

**Award Amount:** \$3,376,259

\*2<sup>nd</sup> revision score - original “2” (2-7-4); 1<sup>st</sup> revision “2” (6-9-0)

# GWG Vote on Review Process

1. All members: “The review was scientifically rigorous, there was sufficient time for all viewpoints to be heard, and the scores reflect the recommendation of the GWG.”
2. ICOC patient advocate members: “The review was carried out in a fair manner and was free from undue bias.”

All members voted unanimously in favor of 1 (19-0)

ICOC members voted unanimously in favor of 2 (6-0)

# CLIN1-08363: Preclinical Development of a Gene Therapy Approach for Artemis-Deficient SCID

**Treatment:** Autologous CD34+ hematopoietic stem cells (HSC) from Artemis-deficient severe combine immunodeficiency (ART-SCID) patients modified by gene therapy to express a corrected copy of the Artemis gene.

**Indication:** Patients with ART-SCID lacking a matched sibling transplant donor or who have failed allogeneic transplant.

**Goal:** Complete preclinical research activities and submit an IND to conduct a subsequent clinical trial.

## Major Proposed Activities:

- Manufacture sufficient preclinical vector for toxicity and efficacy studies and clinical grade vector for the subsequent clinical trial.
- Complete nonclinical toxicity studies and demonstrate ability to manufacture transduced human cells at clinical scale.
- Complete nonclinical efficacy studies.

**Funds Requested:** \$4,268,865 (\$0 Co-funding)

# CLIN1-08363: Preclinical Development of a Gene Therapy Approach for Artemis-Deficient SCID

**Budget Review:** Pass

**GWG Score:** 1\* Exceptional merit, warrants funding

- Votes for score of 1: 8
- Votes for score of 2: 6
- Votes for score of 3: 1

**CIRM Team Recommendation:** Fund (concur with GWG recommendation)

**Award Amount:** \$4,268,865

\*Revised application score - originally scored "2" (0-13-0)



# GWG Vote on Review Process

1. All members: “The review was scientifically rigorous, there was sufficient time for all viewpoints to be heard, and the scores reflect the recommendation of the GWG.”
2. ICOC patient advocate members: “The review was carried out in a fair manner and was free from undue bias.”

All members voted unanimously in favor of 1 (20-0)

ICOC members voted unanimously in favor of 2 (6-0)