

M E M O R A N D U M

March 3, 2014

From: Lisa Kadyk, Ph.D., Science officer

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To: Independent Citizens Oversight Committee (ICOC)

Subject: Concept proposal for RFA 14-02: Preclinical Development Awards

This concept proposal addresses a new initiative that is proposed to facilitate the advancement of promising therapeutic candidates towards the clinic. Applicants will have completed all research activities necessary to identify a single therapeutic candidate to move into development (a Development Candidate). This award will fund key early development activities necessary for a productive preIND meeting with the Food and Drug Administration (FDA). Such activities include development of a good manufacturing process (GMP), assay development and qualification, optimization of dosing and route of administration, mechanism-of-action studies, development of a clinical plan, and holding a well-prepared preIND meeting with the FDA to discuss the IND-enabling development plan. Completion of the activities in this award should position a project on the development pathway to be successful in IND filing and moving into Phase 1 clinical trials for patients, to attract industry partners and to be competitive for future funding.

Concept Proposal for RFA 14-02: Preclinical Development Awards

Program Goal: To support early preclinical development of promising Development Candidates, positioning them for successful IND filing and Phase 1 clinical trials, adding value to them for partnering or for accessing other funding.

Award Amounts:

- \$40M total allocation for 4-5 awards
- Up to \$8M/award (\$10M in extraordinary circumstances)

Award mechanism:

- Grant, for a not-for-profit organization, or
- Choice of Grant or Loan, for a for-profit applicant organization.

Objective: Completion of a successful preIND meeting with the FDA within 30 months.

Eligibility:

- Projects for which CIRM has funded prior early translational work on the intended therapeutic candidate, or
- New projects that have industry partnerships.

Readiness: Single therapeutic development candidate selected, with strong reproducible evidence for disease-modifying activity by the proposed candidate in the target (or related) disease/injury.

Provisional Time Table:

Posting of RFA 14-02	May	2014
LOI applications due	June	2014
Full Applications due	August	2014
Review of Applications by Grants Working Group (GWG)	Q4	2014
Review and Approval by ICOC	Q1	2015
Earliest Funding of Awards	Q2	2015





Preclinical Development Awards Concept Plan PreRead

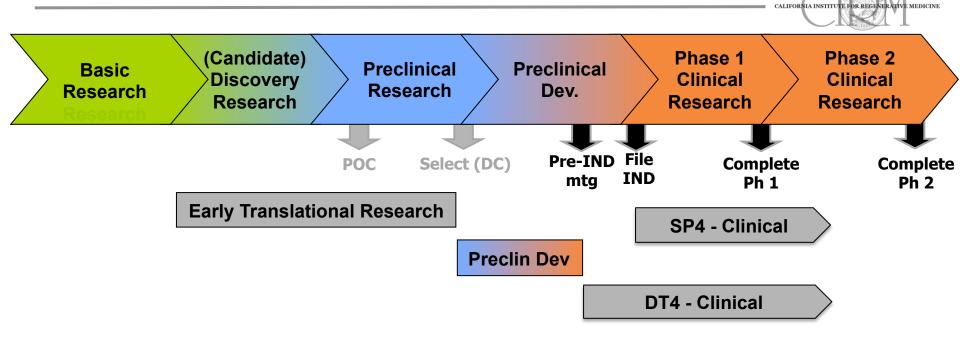
ICOC Meeting March 11, 2014 Agenda Item # 7



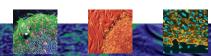




Purpose and Scope: Preclinical Development Awards



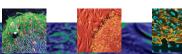
- New award would fund early development activities needed to transition between identification of a Development Candidate and conduct of a pre-IND meeting.
- Goal is to position promising projects to have successful IND filings, attract partners and/or be competitive for future funding.



Goal & Objective:



- Program Goal: Initiate development with promising existing or new (if partnered with industry) therapeutic candidates
- Project Objective: Completion of a well-prepared pre-IND meeting with the FDA within 30 months
 - Rationale:
 - Requires critical FDA input on project which helps to define plans and readiness for future development.
 - Limits investment for early development work. Pivotal INDenabling activities (GLP safety studies, GMP manufacture of clinical therapeutic candidate, IND filing and Phase 1 clinical studies) would require new funding.
 - Facilitates external interest by potential partners.



Strategic Alignment:



- Aligned with focus of CIRM's 2012 strategic plan:
 - To advance stem cell science toward clinical trials that have the potential to generate evidence of therapeutic benefit to patients.
 - To leverage CIRM's investment through partnership with industry.





Eligibility:

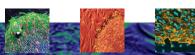
Preclinical Development Awards



 CIRM funded earlier translational work on the intended therapeutic candidate

OR

- New project if have a research/development agreement with a large biotech/pharma partner or can show strong evidence of partner interest at time of application (e.g research collaboration term sheet).
 - Partner may provide co-funding or in-kind support
 - Signed agreement required before approval by ICOC
- Applicant may be for-profit or not-for-profit



Readiness:



- Single therapeutic development candidate selected
- Strong, reproducible evidence for preclinical diseasemodifying activity for the proposed candidate in target (or related) disease/injury
- Preliminary assessments of dose/safety
- Research scale production/assays in place



Activities:

Preclinical Development Awards

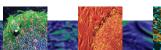
CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE

In-Scope

- Development of a stage-appropriate GMP manufacturing process and assay development/qualification
- Optimization of dose, route of administration in models
- Mechanism of Action studies
- Development of a clinical plan
- Conducting pre-preIND and preIND meetings

Out of Scope

- ☐ Research to identify a therapeutic candidate
- ☐ Studies to explore other non-related indications
- □ Pivotal IND-enabling safety studies
- Manufacture of clinical supplies of therapeutic candidate





Therapeutic Candidates: Preclinical Development Awards

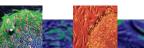


In-Scope

- □ Pluripotent-cell derived
- Allogeneic or autologous adult stem or progenitor cells (with exceptions)
- ☐ Genetically- or pharmacologically modified HSC or MSC
- ☐ Tissue-engineered tissues
- □ Small molecule or biologic that targets normal endogenous stem cells

Out of Scope

- ☐ Unmodified HSC or MSC
- ☐ Minimally manipulated bone marrow or cord blood cells
- ☐ Small molecules or biologics not targeting endogenous stem cells



Award Information:



- Total Program Costs: up to \$40 MM
 - Estimate 4-5 awards
- Award Amount
 - \$8 MM per project
 - Under exceptional circumstances up to \$10 MM
- Award Term
 - 2.5 years (30 months)
- Award mechanism
 - Grant (non-profit applicant organization)
 - Grant or Loan (for-profit applicant organization)





Provisional Time Table:

Preclinical Development Awards



ET Preclinical Development Provisional Time Table			
Post RFA 14-02	May	2014	
LOI applications due	June	2014	
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Review of Applications by Grants Working Group (GWG)	Q4	2014	
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ICOC March 2014

Request for Approval:

Preclinical Development Awards



 Request approval of the concept plan for the CIRM Preclinical Development Awards RFA 14-02 with a proposed budget of \$40 MM.

Questions?





