



CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE

Consideration of Recommendations from the Grants Working Group on Stem Cell Genomics Center of Excellence Award Applications

Agenda item #7

CIRM Genomics Centers Awards: Key Goals

- Provide advanced genomics and bioinformatics resources for California stem cell researchers
- Support resource-intensive genomics projects that will substantially advance stem cell biology and therapeutics
- Facilitate the standardization, coordination, handling, and analysis of genomic data and the advance of genomics technology and bioinformatics applied to stem cell research

CIRM Genomics Centers Awards

Eligibility and Application

- Open to for-profit and non-profit organizations
- Multi-institutional proposals were encouraged
- Proposed centers should augment and interface with existing genomics and bioinformatics resources
- Significant institutional commitment expected

Award Details:

- Support for up to 5 years
- Funding of one or two centers
- Total program costs of up to \$40 million

CIRM Stem Cell Genomics Centers of Excellence Awards



Application Components:

- Center Organization and Operational Plan
- Collaborative Research Activities
 - access to state-of-the-art genomics and bioinformatics technologies
 - expertise and assistance in experimental design and data analysis
- Center-initiated Research Projects (2-4 distinct projects)
 - critical, transformative, data-intensive human genomics research applied to stem cell biology
 - novel technology development projects addressing major bottlenecks in stem cell genomics research
- Data Coordination and Management
 - provide infrastructure and expertise for storage, transfer, assembly and publication of data from stem cell genomics projects
 - if two awards are made, only one will be funded for this activity

CIRM Stem Cell Genomics Centers of Excellence Awards



Review Criteria:

- Center Organization and Operational Plan
 - Center leadership has appropriate experience and expertise
 - Proposed organization is coherent and well developed with well defined and appropriate leadership and operational responsibilities
 - Budget for Center administration reflects realistic and reasonable costs
 - Institutional support for the Center is significant and appropriate

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Review Criteria:

- Collaborative Research Activities
 - Appropriate and well developed plans for recruiting, evaluating and accepting collaborative projects are proposed
 - Program leaders have experience coordinating large collaborative projects
 - Plans for executing collaborations and coordinating center and collaborator activities are well developed
 - Adequate and appropriate center resources and personnel will be available to facilitate collaborative projects

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Review Criteria:

- Center-initiated Research Projects (separate evaluation for each project)
 - Significance and Innovation
 - Feasibility and Experimental Design
 - Project Leadership and Research Team

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Review Criteria:

- Data Coordination and Management
 - Leadership and operational team have appropriate expertise and experience
 - Existing and proposed infrastructure will adequately support needed data capacity
 - Proposed technology and informatics platforms have sufficient scope and quality
 - Proposed staffing and budget are appropriate and adequate

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GWG Review

- Second Review Round
 - Proposals accepted from 1st round applicants
 - Applicants were allowed to change proposal components, establish new collaborations and/or combine efforts
- 5 applications received
- Review Meeting, Nov. 7-8, 2013
- Applications were each scored separately for Genomics Center and for Data Coordination and Management
- Reviewers could propose removal of individual Center Initiated Projects

Genomics Awards: Review Ranking and Scores



Genomics Center

| Application | Average | Median | Std Dev | Lowest | Highest | Tier | Budget |
|-------------|---------|--------|---------|--------|---------|------|--------------|
| GC1R-06673 | 88 | 90 | 8 | 70 | 95 | 1 | \$29,327,073 |
| GC1R-06708 | 82 | 80 | 5 | 74 | 90 | 1 | \$32,261,939 |
| GC1R-06709 | 76 | 74 | 6 | 70 | 88 | 1 | \$33,143,019 |
| GC1R-06702 | 75 | 75 | 4 | 64 | 80 | 1 | \$25,169,813 |
| GC1R-06683 | 70 | 70 | 6 | 60 | 80 | 2 | \$36,000,000 |

Data Coordination and Management

| Application | Average | Median | Std Dev | Lowest | Highest | Tier | Budget |
|-------------|---------|--------|---------|--------|---------|------|-------------|
| GC1R-06673 | 90 | 90 | 2 | 85 | 95 | 1 | \$3,999,999 |
| GC1R-06702 | 78 | 80 | 4 | 70 | 82 | 1 | \$3,974,209 |
| GC1R-06709 | 72 | 70 | 7 | 65 | 82 | 2 | \$3,838,953 |
| GC1R-06708 | 71 | 71 | 5 | 60 | 80 | 2 | \$4,000,000 |
| GC1R-06683 | 63 | 65 | 2 | 60 | 65 | 3 | \$4,000,000 |

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Staff Recommendation

- Fund GC1R-6673 Genomics Center (top scoring proposal)
 - Retain Center Initiated Project #2 (GWG Minority Report recommendation)
 - Remove Center Initiated Project #3 (GWG recommendation)
- Fund GC1R-6673 Data Coordination and Management Component (GWG recommendation)
- Total award: \$33,327,073