

CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE

CIRM Shared Research Labs and Training Programs

Agenda Item #6C1-4

**Michael Yaffe, Ph.D.
Associate Director, Research Activities**

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CIRM Shared Research Laboratories



- Program Goals
 - To establish “safe havens” for stem cell research
 - To establish advanced core services to facilitate stem cell research
 - To provide expertise and training in stem cell techniques for the California research community
- Program Features
 - 17 labs established and supported at universities and research institutes throughout California
 - Facilities and expertise for cell culture, human stem cell derivation, cytometry and microscopy
 - Training
 - 6 Shared Labs were funded to provide formal stem cell techniques courses
 - One-on-one instruction, workshops and informal courses

CIRM Shared Research Laboratories



- Program Funding
 - Total funds committed: \$72 million
 - Lab setup and 3 years of operations (2007): \$50.5 million
 - 3 year continuation (2011): \$21.5 million
- SAB Recommendation: no further funding of Shared Labs
- Staff accepts the SAB recommendation on Shared Labs
 - “safe haven” role is no longer needed or essential to CIRM’s mission
 - Facilities are established; equipment operational and available
 - Shared Labs should operate on a revenue-neutral basis through recharge and/or institutional support
 - Some training courses may not be as necessary, since considerable stem cell expertise now exists in the California research community
 - Other training courses can be supported by course fees

CIRM Training Grants

- Program Goals:
 - To support training and development of graduate and post-graduate level stem cell scientists in California
 - To expand stem cell research by creating a cadre of young scientists with appropriate knowledge and skills



- Program Features
 - mentored laboratory research
 - courses, seminars and other educational activities
 - support of graduate students, postdoctoral fellows and clinical fellows



CIRM Training Grants



- Programs

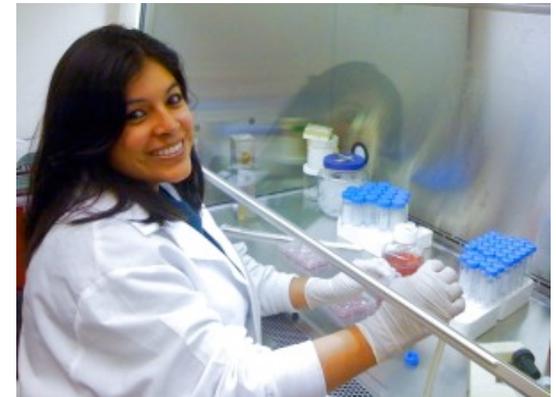
- 17 programs
- research projects across spectrum of CIRM portfolio; majority in basic research including model systems
- 149 current CIRM Scholars; 742 CIRM Scholars to date
- CIRM Scholars have worked in 439 labs
- CIRM Scholars have been authors on >775 publications
- programs provide foci for local research communities

- Program Budget

- Total funds committed \$130.9 million
 - Training I (2005) \$38.9 million
 - Training II (2009) \$45.2 million
 - 3-year extension (2011) \$46.8 million

Bridges to Stem Cell Research

- Program Goals:
 - To expand California's workforce in stem cell science and regenerative medicine
 - To provide research and training opportunities for undergraduate and Master's level students representing the diversity of California's population
- Program Features
 - Student research internships in stem cell labs (6-12 months)
 - Techniques course at CIRM-funded shared lab or equivalent facility
 - Integration of internships with undergraduate or Master's programs at home institutions
 - Annual Bridges Trainee Meeting



Bridges to Stem Cell Research

- Programs

- 16 programs (13 state universities and 3 community colleges)
- 144 current interns; 635 trainees to date
- Trainees have worked in >300 labs at 46 institutions
- Most trainees get jobs in stem cell labs or enter graduate school

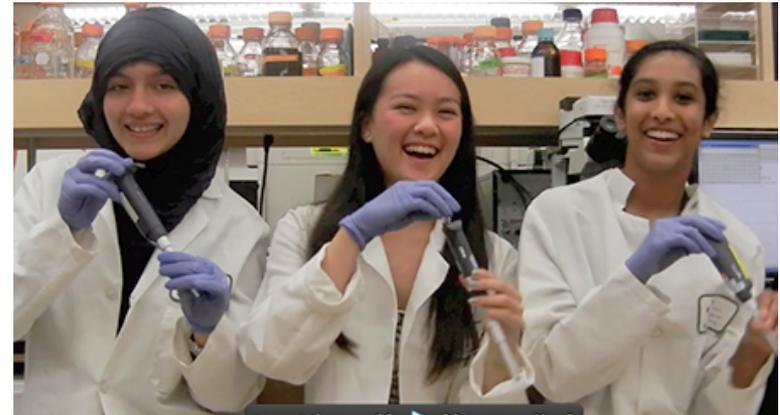


- Program Budget

- Total funds committed \$50.6 million
- Initial program (2009) \$24.0 million
- 3-year extension (2011) \$26.6 million

CIRM Creativity Awards

- Summer internship program for high school students
- Directed participation in research and other educational activities
- 9 programs at research universities and institutes
- ~70 students/yr
- 132 students have participated to date
- Creativity Poster Day
- Program Funding, 3 yrs (2012): \$1.7 million



CIRM Training Programs

- SAB Recommendation: continue support for training programs
- Staff agrees with recommendation and proposes 3-year extensions of Training Grants, Bridges and Creativity Awards programs.

– Proposed future funding:

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|-------------------------------|----------------------|
| • Training (3 yr extension) | \$45.0 million |
| • Bridges (3 yr extension) | \$26.6 million |
| • Creativity (3 yr extension) | <u>\$1.7 million</u> |

TOTAL: \$73.3 million