
San Jose State University Stem Cell Internships for Laboratory-based Learning (SJSU SCILL)

Grant Award Details

San Jose State University Stem Cell Internships for Laboratory-based Learning (SJSU SCILL)

Grant Type: Bridges

Grant Number: TB1-01195

Project Objective: To implement a stem cell training regimen within a two-year M.A./M.S. Biological Sciences or a Professional Science Master of Biotechnology (MBT) degree program. To develop and implement a general education course.

Investigator:

Name:	Tzvia Abramson
Institution:	San Jose State University
Type:	PI

Award Value: \$4,154,051

Status: Closed

Grant Application Details

Application Title: Stem Cell Internships for Laboratory-based Learning (SCILL)

Public Abstract: A Consortium for Stem Cell Internships in Laboratory-based Learning was formed by faculty and administrators from five institutions who made a commitment to educate and train 30 students at the graduate level for careers in stem cell biology, and to increase awareness about scientific and societal issues related to stem cell biology and regenerative medicine among non-science majors. These two goals will be achieved by means of a three-year CIRM Bridges to Stem Cell Research Award. The lead University has a strong tradition of educating a diverse student population, and the Program Director heads a department that offers the extensive classroom graduate laboratory training, and operates two nationally acclaimed graduate programs. The Consortium for Stem Cell Internship program is designed to equip students with a broad-based understanding of stem cell biology through classroom instruction and seminars, and in-depth, laboratory-based expertise in a specialty area unique to each student's professional development plan through a year-long internship. More than 60 stem cell research investigators from our consortium partner institutions are committed to educating and training graduate students of the highest caliber for careers in stem cell biology through year-long research internships and other educational-enhancing activities. Each student in the program will have diverse research internship opportunities in basic cell and molecular research at our research university partners, translational research involving stem cell product development at our corporate partner, and clinical applications of stem cell science at our non-profit institute partner. On successful completion of the curriculum and their year-long internship, these students will be awarded a master's degree and will be well-prepared for a stem cell career. The second goal (increasing awareness about scientific and societal issues related to stem cell biology and regenerative medicine among non-science majors) will be achieved by development of curricular materials appropriate for non-science majors to be included in a general education course. Materials developed for this course will be refined for wider online distribution and made available for inclusion in other biology courses at our university and elsewhere.

Statement of Benefit to California: A Consortium for Stem Cell Internships in Laboratory-based Learning was formed by faculty and administrators from five institutions who made a commitment to educate and train 30 students at the graduate level for careers in stem cell biology, and to increase awareness about scientific and societal issues related to stem cell biology and regenerative medicine among non-science majors. These two goals will be achieved by means of a three-year CIRM Bridges to Stem Cell Research Award. The lead University has a strong tradition of educating a diverse student population, and the Program Director heads a department that offers the extensive classroom graduate laboratory training, and operates two nationally acclaimed graduate internship programs. The Consortium for Stem Cell Internship program is designed to equip students with a broad-based understanding of stem cell biology through classroom instruction and seminars, and in-depth, laboratory-based expertise in a specialty area unique to each student's professional development plan through a year-long internship. More than 60 stem cell research investigators from our premiere consortium partner institutions are committed to educating and training graduate students of the highest caliber for careers in stem cell biology through year-long research internships and other educational-enhancing activities. Each student in the program will have diverse research internship opportunities in basic cell and molecular research at our research university partners, translational research involving stem cell product development at our corporate partner, and clinical applications of stem cell science at our non-profit institute partner. On successful completion of the curriculum and their year-long internship, these students will be awarded a master's degree and be well-prepared for a stem cell career. This CIRM-supported program, enthusiastically endorsed by the leaders in the stem cell arena, will ensure that California will continue to lead the nation in a providing regional stem cell workforce of the highest quality. The second goal (increasing awareness about scientific and societal issues related to stem cell biology and regenerative medicine among non-science majors) will be achieved by development of curricular materials appropriate for non-science majors to be included in a general education course. Materials developed for this course will be refined for wider online distribution and made available for inclusion in other biology courses at our university and elsewhere.

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