

SIGN AND RETURN THIS PAGE TO CIRM RS1-00228-1
NOTICE OF GRANT AWARD – Leon J. Thal SEED Grant
California Institute for Regenerative Medicine

Issue Date: August 9, 2007

Grant Number:	RS1-00228-1	Budget Period:	Annual as of 8/1/2007
Grantee ID:	NE-A0006A-SD	Project Period Start:	8/1/2007
Principal Investigator:	Dr. Catriona Jamieson	Project Period End:	7/31/2009
Project Title:	Derivation and Characterization of Cancer Stem Cells from Human ES Cells		

Authorized Organizational Official and Address:
 Clarice Lin Park
 Contract and Grant Officer
 9500 Gilman Dr. #0934
 La Jolla, CA 92093-0934

Official and Address to Receive Payments:
 Office of Contracts and Grants
 Attn: Clarice Lin Park
 9500 Gilman Dr. #0934
 La Jolla, CA 92093-0934

The California Institute for Regenerative Medicine (CIRM) hereby awards a Grant in the amount of **\$616,305** to be disbursed over a total period of 2 years to **University of California, San Diego** (Grantee ID NE-A0006A-SD) in support of the above referenced project. This award is pursuant to the California Stem Cell Research and Cures Act (Health and Safety Code section 125290.10 *et. seq.*) and is subject to terms and conditions referenced below. (Capitalized terms are defined in the *CIRM Grants Administration Policy for Academic and Non-Profit Institutions (GAP)*, a copy of which may be found on the CIRM website at: http://www.cirm.ca.gov/reg/pdf/reg100500_policy.pdf.)

In accepting this Grant, the Grantee warrants to CIRM that any funds expended under the award will be for the purposes set forth in the approved application and agrees to comply with all applicable CIRM regulations and standards. See Item II (page 3) below. In addition, in accepting this Grant the Principal Investigator and Authorized Organizational Official certify that organizational approval for the proposed use of biohazardous materials, radioisotopes, and/or controlled substances is current and will remain in effect for the proposed project period and that key personnel will obtain formal training and appropriate authorization for the use of said materials prior to their commencing work on the proposed project or activity.

To accept this Grant, the Principal Investigator and Authorized Organizational Official must sign and return this Notice of Grant Award (NGA) to CIRM within 30 days of the issue date. Payment will be issued only after the signed NGA is received by CIRM. If the applicant cannot accept the award, including the legal obligation to perform in accordance with its provisions, it should notify CIRM immediately upon receipt of the NGA. Grant funds will be sent to the organization's address listed above under *Official and Address to Receive Payments* unless an alternative address is provided in the box below.

If you have any questions about this award, please contact the CIRM staff referenced on page 3.

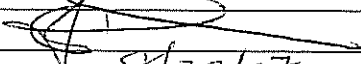
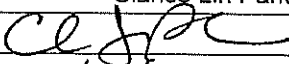
Alternative Official and Address to Receive Payments:

Office of Post Award Financial Services
 Attn: Mark Cooper, Director
 University of California, San Diego
 9500 Gilman Drive, #0954
 La Jolla, CA 92093-0954

Arlene Y. Chiu

Arlene Y. Chiu, Ph.D.
 Interim Chief Scientific Officer
 California Institute for Regenerative Medicine

AWARD ACCEPTANCE: The Principal Investigator and Authorized Organizational Official must sign and return this top page to CIRM to accept the Grant award.

	Principal Investigator	Authorized Organizational Official
Name	Dr. Catriona Jamieson	Clarice Lin Park
Signature		
Date	8/30/07	8/31/07

CIRM USE ONLY	Date received:	Accepted by:
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I. AWARD DATA:

AWARD DETAIL (U.S. Dollars):

	Year 1	Year 2
<u>Direct Project Costs</u>		
Personnel and Trainee Costs	\$123,540	\$127,171
Travel	\$2,000	\$2,000
Supplies	\$74,338	\$70,629
Equipment		
Consultants/Subcontracts		
Total Project Costs	\$199,878	\$199,800
<u>Facilities Costs</u>		
Facilities Costs – Category A	\$29,982	\$29,970
Facilities Costs – Category B	\$26,984	\$26,973
<u>Indirect Costs</u>		
Indirect Costs	\$51,369	\$51,349
APPROVED BUDGET TOTAL	\$308,213	\$308,092

ANTICIPATED PAYMENT SCHEDULE (All payment dates are approximate.):

		Year 1	Year 2
Installment 1	Date	8/1/2007	8/1/2008
	Amount	\$308,213*	\$231,069*
Installment 2	Date	n/a	7/31/2009
	Amount	n/a	\$77,023
TOTAL FOR YEAR		\$308,213	\$308,092

*Any interest accrued by the Grantee from the Grant payment must be used for the Leon J. Thal SEED Grant Program.

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II. TERMS AND CONDITIONS

This award is based on the application submitted to CIRM, and as approved by the ICOC on the above-titled project and is subject to the terms and conditions incorporated either directly or by reference in the following:

- A. The *California Stem Cell Research and Cures Act* (Health and Safety Code Section 125290.10 *et. seq.*) and program regulation cited in this NGA.
- B. The *CIRM Grants Administration Policy for Academic and Non-Profit Institutions* (Title 17, California Code of Regulations, Section 100500), *CIRM Intellectual Property Policy for Non-Profit and Academic Institutions*, the *CIRM Medical and Ethical Standards Regulations* (Title 17, California Code of Regulations, Sections 100010-1000110), *CIRM Use of Fetal Tissue* (Title 17, California Code of Regulations, Section 10085), and any subsequently adopted applicable regulations.
- C. This NGA, including any terms and conditions contained herein.

Please check the following website for updated policy documents: <http://www.cirm.ca.gov/faq/policy.asp>

III. CIRM CONTACTS:

Amy Lewis, Grants Management Officer
Phone: (415) 396-9110 Email: alewis@cirm.ca.gov Fax: (415) 396-9141

Patricia Olson, Ph.D., Interim Director of Scientific Activities
Phone: (415) 396-9116 Email: polson@cirm.ca.gov Fax: (415) 396-9141

The CIRM home page is at <http://www.cirm.ca.gov>

CIRM Mailing Address:

California Institute for Regenerative Medicine
Attn: Grants Management Officer
210 King Street
San Francisco, CA 94107

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Budget Adjustments**Note:** Predoc original Annual Base Stipend higher than cap - adjusted down to 25k.**Note:****Note:**

	Year 1 original	Year 1 adjusted	Year 2 original	Year 2 adjusted	Original Total	Adjusted Total
Subtotal for all personnel (non-trainee)	\$98,497	\$98,497	\$101,452	\$101,452	\$199,949	\$199,949
Subtotal for all trainees	\$25,165	\$25,043	\$25,919	\$25,719	\$51,084	\$50,762
Personnel and Trainee Costs	\$123,662	\$123,540	\$127,371	\$127,171	\$251,033	\$250,711
Travel	\$2,000	\$2,000	\$2,000	\$2,000	\$4,000	\$4,000
Supplies	\$74,338	\$74,338	\$70,629	\$70,629	\$144,967	\$144,967
Equipment	\$0	\$0	\$0	\$0	\$0	\$0
Total Consultants/Subcontracts	\$0	\$0	\$0	\$0	\$0	\$0
Other Project Costs	\$76,338	\$76,338	\$72,629	\$72,629	\$148,967	\$148,967
Total Project Costs	\$200,000	\$199,878	\$200,000	\$199,800	\$400,000	\$399,678
Excluded Expenses	\$0	\$0	\$0	\$0	\$0	\$0
Adjusted Project Costs	\$200,000	\$199,878	\$200,000	\$199,800	\$400,000	\$399,678
Rate for Operation/Maintenance Expenses	13.00%	13.00%	13.00%	13.00%		
Rate for Library Expenses	2.00%	2.00%	2.00%	2.00%		
Sum of Category A Rates	15.00%	15.00%	15.00%	15.00%		
Category A Costs Requested	\$30,000	\$29,982	\$30,000	\$29,970	\$60,000	\$59,952
Rate for Depreciation or Use Allowances	8.50%	8.50%	8.50%	8.50%		
Rate for Interest on Capital Debt	5.00%	5.00%	5.00%	5.00%		
Sum of Category B(1) Rates	13.50%	13.50%	13.50%	13.50%		
Category B(1) Costs Requested	\$27,000	\$26,984	\$27,000	\$26,973	\$54,000	\$53,957
Facilities Costs	\$57,000	\$56,965	\$57,000	\$56,943	\$114,000	\$113,908
Sum Adj. Proj. Cost and Facilities Costs	\$257,000	\$256,843	\$257,000	\$256,743	\$514,000	\$513,586
Indirect Cost Rate	25%	20%	25%	20%		
Indirect Costs	\$64,250	\$51,369	\$64,250	\$51,349	\$128,500	\$102,717
Total Funds Requested	\$321,250	\$308,213	\$321,250	\$308,092	\$642,500	\$616,305