



T H E  
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R E S E A R C H  
I N S T I T U T E

**NIH Human Embryonic Stem Cells:  
Comprehensive Training Program**

**September 9-18, 2008**

**Center for Regenerative Medicine  
The Scripps Research Institute  
10550 North Torrey Pines Road  
La Jolla, California 92037**

**Course Director:** Jeanne F. Loring

**Co-Directors:** Philip H. Schwartz and Robin L. Wesselschmidt

Application deadline for TSRI course: **July 15, 2008**

Notification: **August 1, 2008**

Tuition due: **August 15, 2008** (Please see website for details of charges)

**Instructions:**

**Please submit the following as attachments via email to:**

**[stemcells@scripps.edu](mailto:stemcells@scripps.edu)**

- 1. Completed Application Form**
- 2. NIH-style Biographical Sketch**
- 3. Email or letter of support from the laboratory director or principal investigator, if you are not the director or PI.**

Questions should be addressed to:

Jackie Ferrell [jackief@scripps.edu](mailto:jackief@scripps.edu)

## APPLICATION FORM

PART 1: Applicant and Institution			
A. Applicant Information			
First Name		Last Name	
Phone		Fax	
Email			
U.S. Citizen?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Nationality (if not US citizen)		Visa status and duration	
B. Institution Information			
Institution Name			
Department			
Street Address			
City		State/Province	
Postal Code		Country	
Name of Lab Head (if applicable)			
Institution Type	<input type="checkbox"/> Academic <input type="checkbox"/> Nonprofit Research Institute <input type="checkbox"/> For Profit Research Institute / Company <input type="checkbox"/> Government		
Position	<input type="checkbox"/> Principal Investigator <input type="checkbox"/> Postdoctoral <input type="checkbox"/> Graduate Student <input type="checkbox"/> Technician <input type="checkbox"/> Other		
Education (highest degree)	<input type="checkbox"/> M.D. <input type="checkbox"/> Ph.D. <input type="checkbox"/> M.D. & Ph.D. <input type="checkbox"/> M.S./M.A. <input type="checkbox"/> B.S. / B.A.		

**PART 2: Technical Experience**

**A. Cell Culture Experience**

Very briefly, list the types of cells you have cultured. Have you derived primary cell lines? Have you derived or cultured mouse or other non-human embryonic stem cells? What specific experience do you have with human embryonic stem cells?

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**B. Other Technical Experience**

Please indicate your level of expertise in the following techniques.

	No experience	Some experience	Expert
<b>Microscopy/Histology/Cell Sorting</b>			
Light microscopy (Phase, Brightfield)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fluorescence Microscopy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confocal microscopy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Histology (sectioning/staining)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Immunocytochemistry (cells or tissues)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flow Cytometry/FACS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Gene/protein Expression Analysis</b>			
PCR/RTPCR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quantitative ("Real-time") RTPCR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gene expression (mRNA) Microarray	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Immunoblot (Western)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>DNA/Chromosome/Chromatin Analysis</b>			
Karyotyping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FISH (specific chromosomes) or SKY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SNP Genotyping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chromatin analysis (ChIP, ChIP-seq, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### C. Technical Interests

Please explain what particular expertise you would like to acquire in this course. Is there a technique or area of research that you hope to learn?

### PART 3: Additional Information

*The NIH requests that we gather information about your current NIH grants and plans for grant applications. Please briefly answer the following questions (please only provide public information). Please note that **this information is not required** for consideration of your application for the training course.*

#### A. Current NIH Grant Information

Please list your laboratory's NIH grant support (and the PI for each grant). Please indicate whether any of these grants are specific to human embryonic stem cells.

**B. Future Plans for Human Embryonic Stem Cell Research**

Please describe your objectives for taking this course.

How do you intend to use human embryonic stem cells in your laboratory after taking this course?