The Center for Stem Cell Biology & Regenerative Medicine was initiated in 2007 with support from the Massachusetts Life Sciences Center to provide resources to the Commonwealth. The Center provides infrastructure for the support of translational research in academia and industry, as well as education, training and economic development at the regional, national and international level.

Three key programs of the Center for Stem Cell Biology & Regenerative Medicine include:

- The International Stem Cell Registry
- The Massachusetts Human Stem Cell Bank
- The Education & Training Division

Registration deadline is April 12th, 2010

Graduate course registration should be done through your institution (if in the Worcester Consortium), or through UMass Medical School.

To register for one or more professional development sessions, please complete the information below and mail the form, along with payment, to:

UMass Medical School
Stem Cell Center
C/O: Bursar’s Office
55 Lake Ave North
Worcester, MA 01655

Name: ____________________________________________________________
Address: __________________________________________________________
Phone: ____________________________________________________________
Email: ____________________________________________________________
School: ____________________________________________________________
Grade: _____ Subject: _______________________

Please indicate which session you will be attending:
- April 21st, 9:00 am - 2:00 pm
- April 22nd, 9:00 am - 2:00 pm
- April 23rd, 9:00 am - 2:00 pm

Cost is $45 per session.

Directions, confirmation and additional information will be emailed to you once payment has been received.

Checks should be made out to UMMS with a memo note stating:
“ST 113982 Grad Course/PV x66586”
This is a series of scientific seminars followed by hands-on laboratory practice and curriculum building. These seminars are directed to professional teachers of Secondary Education, faculty of two- and four-year colleges and graduate students with an interest in developing perspectives and skill-sets in teaching the basic principles and practices of stem cell biology and regenerative medicine.

 Teachers may enroll in one or more days for 5 professional development points per session, or may choose to take the entire series for 1.5 UMass Medical School graduate credits. Teachers that enroll for graduate credit will develop a presentation and lesson plan to share, that incorporates “cutting-edge science” concepts into activities and lessons to be used in the classroom. Grades will be based on establishing effectiveness of curriculum material that is developed following presentation of strategies and materials to participating faculty and students.

Schedule of Classes

April 20th, 9:00 am - 1:00 pm
Introduction to the Course and Stem Cell Biology Overview (Graduate Students Only)

April 21st, 9:00 am - 2:00 pm
Microscopes: Compound, Immunofluorescence and Electron
Seminar: Introduction to Electron Microscopy in Research Applications
Lab Activity: Nuclear and Cytoskeletal Staining with Immunofluorescence Microscope and Compound Microscope

April 22nd, 9:00 am - 2:00 pm
Understanding the Cell Cycle; from the Classroom to Research Applications
Seminar: Re-Examining the Cell Cycle; its utility in Current Research
Lab Activity: Using Zebrafish as a Developmental Model in the Classroom

April 23rd, 9:00 am - 2:00 pm
Bioethics: Helping Your Students be Good Science Consumers
Seminar: Biotechnology and Bioethics
Lab Activity: Town Hall Bioethics and Sickle Cell DNA Gel Electrophoresis

May 15th, 12:00 noon - 5:00 pm
Lesson Plan Group Presentation (Graduate Students Only)

COST
$45 per session, if taken as professional development/for graduate credit pricing contact your Registrar (if enrolled in Worcester Consortium) or UMass Registrar at 508.856.2267

LOCATION
The Center for Stem Cell Biology & Regenerative Medicine
Rose and Gordon Building
222 Maple Ave
Shrewsbury, MA 01545

For more information, please contact Amy Briggs at 508.856.7744 or amy.briggs@umassmed.edu