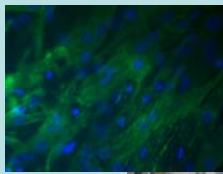




**“HANDS-ON”
TISSUE ENGINEERING:
A LABORATORY SHORT-COURSE**
Tissue Engineering Resource Center
Tufts University, Medford, MA
August 17 – 22, 2009

The Tissue Engineering Resource Center will be holding a laboratory-based short course to expose interested scientists to the many aspects of tissue engineering, scaffold formulation, and analytical techniques that are at the cutting edge of the field.

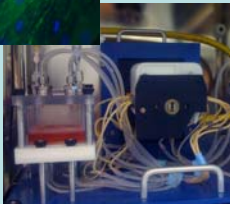
Module I – Cell Culture Techniques



Monday 8/17

Topic I-1: Basic Stem Cell Culture & Differentiation

Topic I-2: 2-D, 3-D Culture Systems & Bioreactors



Tuesday 8/18

Topic I-3: Bone Marrow, Adipose & Embryonic Stem Cell Culture

Topic I-4: Stem Cell Transfection

Module II – Scaffold Fabrication & Testing

Wednesday 8/19

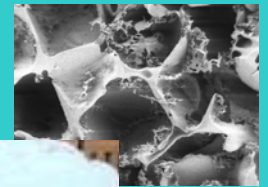
Topic II-1: Scaffold Fabrication

Topic II-2: Mechanical Testing

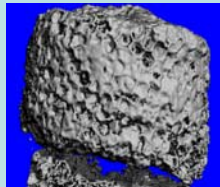
Thursday 8/20

Topic II-3: Scaffold Seeding & Degradation

Topic II-4: Drug Delivery Models – Nano and microparticles



Module III – Analytical Techniques



Friday 8/21

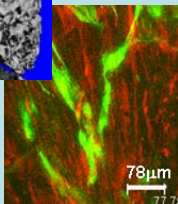
Topic III-1: Bio-analytical Methods (ELISA, RT-PCR, etc.)

Topic III-2: In vitro Inflammation Screening

Saturday 8/22

Topic III-3: Physical & Chemical Analytical Methods

Topic III-4: Confocal Microscopy & Other Imaging Techniques



Attendees can register for the entire 6 days or any of the two-day modules. Each day will be from 9 am – 4:30 pm with lunch provided.

Fee Structure:

All 3 modules: \$3200

Each individual Module: \$1200

To Register:

<http://ase.tufts.edu/terc/>

Contact: Dr. Bruce Panilaitis

bruce.panilaitis@tufts.edu