CELL THERAPY AND TISSUE ENGINEERING

A variety of diseases and injuries to tissues require restorative therapies. Since groups of cells form discrete and highly specialized tissues, it follows that cell-based therapies have the potential to be engineered to regenerate tissues not able to repair themselves. Initially empirically based, tissue engineering strategies are now being developed on the basis of new scientific principles that employ components of cell, molecular and developmental biology and embryology with aspects of biochemistry, materials science and mechanical and biomedical engineering. Currently, adult stem cells are being used in new therapies based on their capacity to secrete immunoregulatory and trophic drugs that form the new field of Regenerative Medicine. These new scientific areas including Tissue Engineering and Cell-based Therapies bring together physicians, engineers and basic scientists with the goal of designing and developing new delivery modalities for a broad spectrum of clinical uses. This course focuses on Cell-based Therapies and Tissue Engineering and the protocols for accomplishing these therapies. The afternoon laboratory session will center on the “How-to-do-it” of cell-based therapies as provided by visual insight into the complex, multi-step technologies of today and tomorrow and provide the basis for standardizing cell-based technologies between various laboratories throughout the world.

2015 SPONSORS

FACULTY

Stewart Abbot Ph.D. - Celgene Cellular Therapeutics
Francois Binette, Ph.D. - OncoCyte Corporation
Tracey Bonfield, Ph.D. - Case Western Reserve University
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Arnold I. Caplan, Ph.D. - Case Western Reserve University
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Horst von Recum, Ph.D. - Case Western Reserve University
Neil Riasdan, Ph.D. - Medistem Panama, Inc.
Vincent Ronfard, Ph.D. - Smith & Nephew
Carlo Tremolada, M.D. - Instituto Image Srl
Catherine Verfaillie, M.D. - Stamcel Institut, Leuven

SPONSORS CONT.

The Skeletal Research Center and the Department of Biology of Case Western Reserve University will offer the 11th Annual short course entitled “Cell-Based Therapies and Tissue Engineering” on May 12 to May 14, 2015 in Cleveland, Ohio. This course, organized by Arnold I. Caplan, will involve morning lectures by eminent scholars and afternoon laboratories and lectures on the “HOW TO” of adult stem cell cultures and cell-scaffold interactions. The course is intended for graduate students, postgraduate students and health science professionals who are interested in Tissue Engineering with emphasis on the principles and detailed protocols used or being modeled for direct clinical use. A syllabus from lectures and labs will be available to all registered participants.
THURSDAY, MAY 14, 2015
SESSION III: Biologies and Stem Cells
8:00-9:00 a.m. Tailoring Cell Therapy for Optimal Activity in Orthopedic Indications, Francois Binetti, Ph.D., OrthoCite Corp.
9:00-10:00 a.m. Engineering Interfaces: Cells and Scaffolds. Antonios Milas, Ph.D. - Rice University.
10:00-10:15 a.m. Break
10:15-10:30 a.m. TBA. Karen K. Hinchi, Ph.D., - Yale University
11:15-12:15 p.m. Periosteal Nature or Nurture: Do MSCs Exist Outside Culture Flasks? Bruno Pizziali, Ph.D. - University of California.
12:15-1:00 p.m. Lunch Provided
1:00-2:00 p.m. Engineering Scaffolds to Maximize Biological Response. Ann Banger, Ph.D. - Wright Medical Technology - Sponsor Lecture
2:00-3:00 p.m. New Logic in Surfaces of Materials. Horst von Recum, Ph.D. - Case Western Reserve University
3:00-3:15 p.m. Break

ACCOMMODATIONS
The preferred local hotels offer special room rates and are located on the Case campus.

Courtyard by Marriott University Circle
2021 Cornell Road; Cleveland, Ohio 44106
216.291.6578  800.228.9290
CWRU - CTTE 15 Group

Glidden House Inn
1901 Ford Drive; Cleveland, OH 44106
216.231.4900  866.812.4517
www.gliddenhouse.com

Registrants are responsible for their own arrangements. Book by April 20, 2015 to receive the special rate. Contact the hotel directly and ask for the CWWU-CTTE15 rate when making your reservation. Other student housing is also available on campus.

COURSE FEES
All fees include: access to all lectures, lecture notebook, labs, all coffee breaks, lunches and dinner reception.

Standard Fee: $1300.
Early Registration Fee (by April 13th): $1100.
For members of the Endorsing Societies: $1150.
For graduate students: $495.

WHO SHOULD ATTEND
Cell-Based Therapies and Tissue Engineering is designed for graduate students, postgraduate students and science professionals who are interested in tissue engineering and stem cells.

REGISTRATION
You may register by completing the attached registration form and returning it by regular mail, fax, email or if you prefer register by phone.

Fax: 216.368.4077  Phone: 216.368.3562
Email: tammie.lee@case.edu

Checks should be made payable to Case Western Reserve University/CTTE15 and mailed to:
Tammie Lee
Biology Department SRC
Case Western Reserve University
10900 Euclid Avenue
Cleveland, OH 44106-7080
Skeletal Research Center
Course Website: http://www.case.edu/artsci/biol/skeletal/

SRC/Website: http://www.case.edu/artsci/biol/skeletal/

REFUND POLICY:
All refund requests must be made in writing. Full refunds will be given for cancellations received by April 25, 2015. Cancellations received April 26, 2015 through May 7, 2015 will be subject to a $200 cancellation fee. No refunds will be given after May 7, 2015.

REGISTRATION FORM

Name/Title ____________________________________________
Company/University ____________________________
Address ____________________________________________
City __________________ State ______ Zip ____________
Phone __________________ Fax ____________
Email __________________ Check appropriate box:
[ ] I am a member of an endorsing society
[ ] I am a graduate student.
[ ] Special Registration Code _________________________
[ ] Check enclosed: Amount _________________________
[ ] Select Your Credit Card: [ ] Discover [ ] Master Card [ ] Visa
Card Number _________________________
Expiration Date ___________________ 3 Digit CVV2 Code
Card Holder’s Name ______________________________________
Billing Address ______________________________________
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*Amount

I am a member of __________________
Check Holder’s Signature ____________________________________________

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