

Stem Cells and Cell Therapies in Lung Biology and Lung Diseases

Supported by the National Heart, Lung, and Blood Institute, Alpha-1 Foundation, American Thoracic Society, Pulmonary Fibrosis Foundation, University of Vermont College of Medicine, Vermont Lung Center

Burlington, Vermont
July 25-28, 2011

AGENDA

MONDAY, JULY 25

5:00-7:00 PM Welcoming Reception and Registration, Sheraton Hotel

TUESDAY, JULY 26

6:45-7:15 AM Continental Breakfast and Continued Registration
Grand Maple Ballroom, Davis Center, UVM Campus

7:15-7:30 Welcome and Introduction

Session 1: Endogenous Lung Progenitor Cells/Lung Cancer Stem Cells
Moderator: **Jay Rajagopal, PhD** **Massachusetts General Hospital**

7:30-8:15 Introductory Talk: Critical Overview of Endogenous Progenitor
Cells in the Lung
Leonard Zon, MD **Children's Hospital Boston**

8:15-9:00 Endogenous Lung Progenitors: Lessons from Lung Development
Emma Rawlins, PhD **University of Cambridge**

(All subsequent talks: 20 min followed by a 10 min Q/A period)

9:00-11:00 Presentations with appropriate breaks
Ivan Bertonecello, PhD **Monash University, Australia**
Carla Kim, PhD **Children's Hospital Boston**
Susan Reynolds, PhD **National Jewish Health**
Barry Stripp, PhD **Duke University**

11:00-11:30 Lessons from the Beta Cell Consortium
Mark Magnuson, MD **Vanderbilt University**

11:30-12:30 PM Panel Moderated Discussion
Panelists TBA

12:30-2:00 Lunch and Poster Session: University of Vermont

Session 2: Embryonic Stem Cells, iPS, and Lung Regeneration
Moderator: **Carolyn Lutzko, PhD** **Children's Hospital Cincinnati**

2:00-2:30 Featured Presentation: Phenotypic and Functional Identification of Lung Epithelial Cells: Is That Really a Type 2 Cell?
Jeffrey Whitsett, MD **Cincinnati Children's Hospital**

2:30-3:00 Featured Presentation #2: iPS Cells, the good, bad, and ugly
Gustavo Mostoslavsky, PhD **Boston University**

3:00-3:15 BREAK

3:15-5:15 Presentations with appropriate breaks
Ali Samadikuchaksaraei **Imperial College, London**
Darrell Kotton, MD **Boston University**
Janet Rossant PhD **University of Toronto**
Hans-Willem Snoeck, MD, PhD **Mount Sinai School of Medicine**
Rick Wetsel, MD **University of Texas**

5:15-6:00 Panel Discussion
Panelists TBA

7:30 Dinner/Reception **ECHO Science Center, Burlington**

WEDNESDAY, JULY 27

7:30 – 8:00 AM Continental Breakfast

Session 3: Bioengineering Approaches to Lung Regeneration: Structure and Matrix

Moderator: Jason HT Bates, PhD University of Vermont

8:00-8:30 Featured Presentation #1: Engineering a new lung: overview
Dame Julia Polak, DBE, MD, DSc Imperial College London

8:30-9:15 Featured Presentation #2: Bioengineering the Trachea
Paolo Macchiarini, MD University of Barcelona

9:15-11:30 Presentations with appropriate breaks
Joaquin Cortiella, MD University of Texas
Christine Finck, MD Connecticut Children's Hospital
Andrew Hoffman, DVM, DVSc Tufts University
Peter Lelkes, PhD Drexel University
Angela Panoskaltsis-Mortari, PhD University of Minnesota
Laura Wangenstein MD PhD University of Vermont

11:45-12:30 PM Panel Discussion
Panelists TBA

12:30-2:00 Lunch and Poster Session: University of Vermont

Session 4: Bioengineering Approaches to Lung Regeneration: Function

Moderator: Thomas Gilbert, PhD University of Pittsburgh

2:00-2:30 Featured Presentation: Doris Taylor, PhD University of Minnesota

2:30-5:15 Presentations with appropriate breaks
David Hoganson, PhD Washington St. Louis
Daniel Huh, PhD Harvard Medical School
Cheryl Nickerson, PhD Arizona State University
Laura Niklason, PhD Yale University School of Medicine
Harald Ott, MD Massachusetts General
Daniel Tschumperlin, PhD Massachusetts General

5:15-6:00 Panel Discussion Panelists TBA

6:00 Dinner on your own in Burlington

THURSDAY, JULY 28

7:00-7:30 AM Continental Breakfast

Session 5: EPCs, MSCs and Cell Therapy Approaches for Lung Diseases

Moderator: **Armand Keating, MD** University of Toronto

7:30-8:00 Featured Speaker: **Darwin Prockop, MD, PhD** Texas A and M

8:00-10:45 Presentations with appropriate break

Sam Janes, PhD University College London

Michael Matthay, MD University of California – San Francisco

Duncan Stewart, MD Ottawa Hospital Research Institute

Daniel J. Weiss, MD, PhD University of Vermont

Mervin Yoder, MD Indiana University

10:45-11:30 Panel Discussion

Panelists TBA

11:30-12:00 Box Lunch Buffet

Session 6: Summation and Directions

Moderator: **Darwin Prockop, MD, PhD** Texas A & M

12:15-1:00 PM Perspectives from the NHLBI, FDA, Respiratory Disease Foundations

James Kiley PhD, Chief, Division of Lung Diseases, NHLBI

Donald Fink, Jr., PhD, FDA

Adam Wanner, MD, Alpha-1 Foundation

Michael Matthay, MD on behalf of the ATS

Daniel Rose, PhD, CEO Pulmonary Fibrosis Foundation

1:00-1:45 Ethics of Cell Therapy Approaches for Lung Diseases
(TBA)

1:45-2:30 Open Discussion: Setting Priorities and Recommendations to the NIH
Regarding Future Research Opportunities

2:30 Conclusion