Stem Cells, Cell Therapies, and Bioengineering in Lung Biology and Diseases

PRE-CONFERENCE WORKSHOP
July 15, 2019

Track 1: Practical/Theoretical Course on State-of-the art Methods in Stem Cells, Cell Therapies, and Bioengineering
Led by: Darcy Wagner, PhD, Lund University and Dan Weiss, PhD, University of Vermont

Track 2: Professional Skills Course: Introduction to Technology Commercialization and Business Communication
Led by: Chelsea Magin, University of Colorado Denver and Erik Monsen, University of Vermont

9:00-11:45 AM Programming
12:00-1:00 PM Lunch with industry representatives
1:00-2:45 PM Programming
2:30-2:45 PM Coffee and networking break
2:45-4:00 PM Programming

CONFERENCE AGENDA
July 15-18, 2019

MONDAY, JULY 15

5:00-6:00 PM Welcoming Reception and Registration, Hotel Vermont

Session I: Understanding lung stem cells in the digital age
(Location: Hotel Vermont)

6:00-8:00 PM Lectures and Discussions

Free night in Burlington, Dinner on Your Own
TUESDAY, JULY 16 ~ Dame Julia Polak Memorial Bioengineering Session
(Location: Grand Maple Ballroom, Davis Center, UVM Campus)

7:45-8:30 AM  Shuttle bus looping between Hotel Vermont and UVM Campus
8:00-8:45 AM  Continental Breakfast and Continued Registration

Session II:  Building up the complexity of the lung: assessing lung stem and progenitor cells using 3D Models

9:00-10:20 AM  Lectures and Discussions
10:20-10:50 AM  COFFEE and NETWORKING BREAK

Session III:  Stem cell niche interactions

10:50 AM-12:10 PM  Lectures and Discussions
12:10-12:40 PM  Elevator Pitch Competition – Commercialize Your Research for Industry Sponsorship or SBIR/STTR Collaboration
                *One Minute Elevator Pitch Competition for Junior Trainees. 1 slide allowed; 1 minute buzzer.*
12:40-2:00 PM  MENTORING LUNCH
2:00-3:00 PM  Lectures and Discussions

Session IV:  Towards the development of new therapies using lung stem cells for cystic fibrosis

3:00-4:40 PM  Lectures and Discussions
4:40-5:00 PM  Panel Discussion

Session V:  Careers in Stem Cells, Cell Therapies, and Lung Bioengineering

5:00-5:45 PM  Lectures and Discussions
6:00-8:00  WOMEN AND DIVERSITY RECEPTION

Free night in Burlington, Dinner on your own
WEDNESDAY, JULY 17

8:30-9:00 AM  Shuttle bus looping between the Hotel and UVM Campus
8:30-9:00    Continental Breakfast

**Session VI: Careers in Stem Cells, Cell Therapies, and Lung Bioengineering**

9:00-10:30 AM  Lectures and Discussions
10:30-11:00 AM  COFFEE and NETWORKING BREAK

**Session VII: Bringing cell and tissue-derived products to market: regulation and commercialization of regenerative medicine products**

11:00 AM-12:20 PM  Lectures and Discussions
12:20-1:30 PM  GROUP PHOTO AND LUNCH
1:30-2:30 PM  Lectures and Discussions

**Session VIII: Immunomodulation via cell therapy and cell-derived extracellular vesicles (MSCs, EPCs, and ASC)**

2:30-4:10 PM  Lectures and Discussions
4:10-4:40 PM  Panel Discussion

**Session IX: Publishing and communicating with stem cells, cell therapies and bioengineering**

4:40-5:10 PM  Journal editor presentations
5:10-5:30    Panel Discussion with editors
5:30-9:00 PM  Dinner Cruise on Lake Champlain
              Award Ceremony
THURSDAY, July 18

8:30-9:00 AM  Continental Breakfast

Session X:  **New strategies for cellular delivery**

9:00-10:40 AM  Lectures and Discussions
10:40-11:00  COFFEE and NETWORKING BREAK

Session XI:  **Visualizing lung regeneration**

11:00 AM-11:30 PM  Lectures and Discussions

12:20-2:00 PM  BOX LUNCH and
*Open Discussion - Setting Priorities and Recommendations to the NIH and Other Organizations Regarding Future Research Opportunities*