AGENDA

MONDAY, JULY 17

8:30 AM-4:00 PM  Workshop  ~ See Workshop Program

4:30-6:00 PM  Welcome Reception and Registration Check-In, Hotel Vermont
Transition to: COURTYARD BURLINGTON HARBOR HOTEL, HARBOR ROOM

6:00-6:10 PM  Opening Remarks
Suresh V. Garimella, PhD ~ President, University of Vermont

Session I:  Engineering New Models of Lung Disease and Repair
Moderators:  
Chelsea Magin, PhD ~ University of Colorado, Anschutz, Denver, CO
Rebecca Heise, PhD ~ Virginia Commonwealth University, Richmond, VA

6:15-6:40  Featured Presentation: 3D-Printed Lungs to End the Organ Shortage
Keri Dame, PhD, Lung Biotechnology, Manchester, NH

6:40-7:05  Featured Presentation: High-Resolution 3D Printing of Whole Lung Structure
Jeremy Hirota, PhD, McMaster University, Hamilton, ON, Canada

7:05-7:30  Featured Presentation: Microstructured Hydrogels to Guide Self-Assembly and Function of Lung Alveolospheres
Claudia Loebel, PhD ~ University of Michigan, Ann Arbor, MI

7:30-7:55  Featured Presentation: Engineering Motile Apical-Out Airway Organoid to Probe Respiratory Pathophysiology
Xi (Charlie) Ren, PhD ~ Carnegie Mellon University, Pittsburgh, PA

7:55-8:10  Outstanding Abstract Achievement Award Presentation
~

8:10-8:30  Panel Discussion
TUESDAY, JULY 18

All sessions at the Dudley H. Davis Center, UVM Campus, Grand Maple Ballroom.

7:30-8:30 AM Breakfast

8:30-9:00 Welcome Remarks
Amy Ryan ~ 2023 Conference Chair
UVM Representatives

Session II: Lung Repair and Regeneration: Integrating Omics with Function
Moderators:
Christopher Waters, PhD ~ University of Kentucky, Lexington, KY
Alexander Misharin, MD, PhD ~ Northwestern University, Evanston, IL

9:00-9:25 AM Featured Presentation: Spatial Metabolomics and Pulmonary Fibrosis
Ramon Sun, PhD ~ University of Florida, Gainesville, FL

Jamie Hook, MD, PhD – Icahn School of Medicine at Mount Sinai, New York, NY

9:50-10:15 Featured Presentation: TBD
Alexander Misharin, MD, PhD ~ Northwestern University, Evanston, IL

10:15-10:30 Outstanding Abstract Achievement Award Presentation:

10:30-10:50 Panel Discussion

10:50-11:05 Coffee and Networking Break

11:05-12:05 PM “Minute to Win It” Competition
Moderators:
Finn Hawkins PhD, Boston University, Boston, MA
Thien-Khoi (TK) Phung, PhD ~ Harvard University, TH Chan School of Public Health, Boston, MA

Panel of Senior Investigator Judges:
Erik Monsen, PhD ~ University of Vermont, Burlington, VT
Kirk Dombrowski, PhD ~ University of Vermont, Burlington, VT
Sue Reynolds, PhD, Nationwide Children's Hospital, Columbus, OH
Jed Mahoney, PhD, Cystic Fibrosis Foundation, Lexington, MA

One Minute Elevator Pitch Competition for Junior Trainees.
1 slide allowed: 1-minute buzzer. Two prizes awarded.

12:05-1:00 PM Lunch
1:00-2:15  **Poster Session #1**

*Poster Discussion Moderators:*

~ A  
~ B  

*Poster Judges:*

~ A  
~ B  
~ C  
~ D  
~ E

**Session III:**  **Heterogeneity in Lung Immune Cells and Influences on Regeneration**

*Moderators:*

Anna Krasnodembskaya, PhD ~ Queen’s University, Belfast, Northern Ireland  
Patrick Hume, PhD ~ National Jewish Health, Denver, CO

2:15-2:40 PM  **Featured Presentation:**  

*Foxp3+ regulatory T cells (Tregs) in Immune Homeostasis and Repair of Damaged Lung Tissue*  

Jason Mock, PhD ~ University of North Carolina, Chapel Hill, NC

2:40-3:05  **Featured Presentation:**  

*Immune Cell Signaling and Epithelial Regeneration in COPD*  

Thomas Conlon, PhD ~ Helmholtz, Munich (Postdoctoral Research Fellow)

3:05-3:30  **Featured Presentation:**  

*Airspace Macrophage Populations in Health and Inflammation*  

Kara Mould, MD, MPH ~ National Jewish Health, Denver, CO

3:30-3:45  **Outstanding Abstract Achievement Award Presentation:**

~

3:45-4:00  **Panel Discussion**

4:00-4:15  **Coffee and Networking Break**

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

*Moderator:*

Amy Ryan, PhD ~ University of Iowa, Iowa City, IA

4:15-5:00  **Featured Presentation:**  

*Pursuing Translational Biomedical Science in an Academic Lab*  

Polly Parsons, MD ~ University of Vermont, Burlington, VT

5:00-6:30  **WOMEN AND DIVERSITY PANEL AND NETWORKING**

*Moderators:*

*Panelists*

Enid Neptune, MD, PhD ~ Johns Hopkins University, Baltimore, MA  
Venkataramana Sidhaye, MD ~ Johns Hopkins University, Baltimore, MA  
Karen Ridge, PhD ~ Northwestern University, Chicago, IL  
Alexandra Noel, PhD ~ Louisiana State University, Baton Rouge, LA
WEDNESDAY, JULY 19

7:30-8:30 AM  Breakfast and Breakfast Session 1
7:30-8:30  
**Funding and Financial Management of Your Lab – Panel Discussion**

~ NSF

~ DOD

~ NIH, Bethesda, MD

~ John Sheridan, PhD - Cystic Fibrosis Foundation, Lexington, MA

**Session V: Application of Surgical Techniques to Advance Stem Cell Therapeutics**

*Moderators:*
Sriram Vaidyanathan, PhD ~ Stanford University, Stanford, CA
Rob Hynds, PhD ~ University College London, London, UK

8:30-8:55 AM  
*Featured Presentation: TBD*
Laura Mattrka, MD ~ Ohio State University College of Medicine, Columbus, OH

8:55-9:20  
*Featured Presentation: TBD*
Tendy Chiang, MD, FACS ~ Nationwide Children’s Hospital, Columbus, OH

9:20-9:55  
*Featured Presentation: TBD*
Do-Yeon Cho, MD ~ University of Alabama, Birmingham, AL

9:55-10:10  
*Outstanding Abstract Achievement Award Presentation:*

10:10-10:30  
*Panel Discussion*

10:30-10:45  
Coffee and Networking Break

**Session VI: Compassionate Use of Cell and Gene Therapies**

Co-sponsored by the International Society for Cell & Gene Therapy (ISCT)

*Moderators:*
Laertis Ikonomou, PhD ~ University at Buffalo, Buffalo, NY; Chair of the ISCT Committee on the Ethics of Cell and Gene Therapy
Patricia Zettler, JD ~ Ohio State University, Columbus, OH; Chair of the ISCT Expanded Access Working Group

10:45-11:00  
*Panel Presentation: TBD*
Alison Bateman-House, PhD ~ NYU Grossman School of Medicine, New York, NY
11:00-11:15  *Panel Presentation: Compassionate Use Access to Unlicensed Products for Patients with Serious and Life-threatening Medical Conditions: An Industry Perspective*  
Paul Aliu, PharmD ~ Novartis

11:15-11:30  *Panel Presentation: TBD*  
Dean A. Lee, MD, PhD ~ Nationwide Children’s Hospital, Columbus, OH

11:30-12:00  *Panel Discussion*

12:00-1:15 PM  **MENTORING/MEET THE FACULTY LUNCH**

1:15-2:30 PM  **Poster Session #2**  
*Poster Discussion Moderators:*  
~ A  
~ B

*Poster Judges:*  
~ A  
~ B  
~ C  
~ D  
~ E

2:30-2:45  Coffee and Networking Break

### Session VII: Epithelial Plasticity: Cells Going Awry in Lung Injury

**Moderators:**  
Michael Beers, MD ~ Perelman School of Medicine at the University of Pennsylvania  
Yael Aschner, MD ~ University of Colorado Anschutz Medical Campus, Aurora, CO

2:45-3:10  *Featured Presentation: Ineffectual ATII-to-AT1 Cell Differentiation in Recovery after Lung Injury*  
Rachel Zemans, MD ~ University of Michigan, Ann Arbor, MI

3:10-3:35  *Featured Presentation: Implications of Fibroblast Injury for Lung Regeneration*  
Anne-Karina Perl, PhD ~ Cincinnati Children’s Hospital, Cincinnati, OH

3:35-4:00  *Featured Presentation: Plastic or Metaplastic: Regenerative Responses of the Distal Lung Epithelium*  
Jaymin Kathiriya, PhD ~ University of California, San Francisco, CA

4:00-4:15  *Outstanding Abstract Achievement Award Presentation:*  
~

4:15-4:35  *Panel Discussion*

4:40-5:20 PM  *Buses leave at intervals to transport to dinner cruise (and to hotels if not attending the dinner cruise).*
6:00 PM  Dinner Cruise on Lake Champlain ~ Award Ceremony
(Cruise boards from 6:00-6:30 and departs promptly at 6:30pm.)

9:00 PM  Cruise disembarks.
(Please advise UVM in advance if you will need transportation back to the hotel following
the cruise. The distance to walk is about two blocks uphill.)

THURSDAY, JULY 20

7:30-8:30 AM  Breakfast and Breakfast Session 2
Finding a Position and Starting Your Own Lab – Panel Discussion
Jamie Hook, MD ~ Ichan School of Medicine at Mount Sinai, NY
Sriram Vaidyanathan, PhD ~ Stanford University, Stanford, CA
Jaymin Kathiriya, PhD ~ University of California, San Francisco, CA
Jeremy Katzen PhD ~ University of Pennsylvania, PA

Session VIII: Dame Julia Polak Memorial Bioengineering Session
Mechanotransduction in Lung Development and Disease  Laertis Ikonomou, PhD ~ University at Buffalo, Buffalo, NY; Chair of the
ISCT Committee on the Ethics of Cell and Gene Therapy
Patricia Zettler, JD ~ Ohio State University, Columbus, OH; Chair of the ISCT
Expanded Access Working Group

Moderators:
Jin-Ah Park, PhD ~ Harvard University, Cambridge, MA
Daniel Tschumperlin, PhD ~ Mayo Clinic, Rochester, MN

8:30-8:55 AM  Featured Presentation: Mechanical Control in the Early Development of the Lung
Celeste Nelson, PhD ~ Princeton University, Princeton, NJ

8:55-9:20  Featured Presentation: Mechanochemical Control of Stem Cell Division in Health and Disease
Thomas Worzfeld, PhD ~ Max Planck Institute for Heart and Lung Research, Germany

9:20-9:45  Featured Presentation: Genetic and Epigenetic Regulations of Stem Cells by Mechanical Force
Yekaterina Miroshnikova, PhD ~ NIH: NIDDK, Bethesda, MD

9:45-10:00  Outstanding Abstract Achievement Award Presentation
~

10:00-10:20  Panel Discussion

10:20-10:45  Coffee / Networking Break and GROUP PHOTO

Session IX: Challenges and Controversies in Human Mesenchymal Stromal
Cell Therapy
Moderators:
Tracey Bonfield, PhD ~ Case Western, Cleveland, OH
Shirley Mei, PhD ~ Ottawa Hospital Research Institute, Ottawa, CA  
10:50-11:05  Panel Presentation  
Tracy Heng, PhD ~ Monash University, Australia  

11:05-11:20  Panel Presentation  
Lauralyn Mcintyre, MD ~ University of Toronto, Canada  

11:20-11:35  Panel Presentation  
Jacques Galipeau, MD ~ University of Wisconsin Madison, WI  

11:35-12:00  Panel Discussion  

12:00-1:15 PM Lunch Break  

**Session X:**  The Matrix Revealed: Understanding Extracellular Matrix Influence of Repair and Regeneration  
Moderators:  
Janette Burgess, PhD ~ University of Groningen, Groningen, Netherlands  
Alicia Tanneberger ~ University of Colorado, Denver ι Anschutz, Denver, CO  

1:15-1:40 PM  Featured Presentation: TBD  
Martin Kolb, MD, PhD ~ McMaster University, Ontario, Canada  

1:40-2:05  Featured Presentation: TBD  
Amanda Tatler, PhD ~ Nottingham University, Nottingham, UK  

2:05-2:30  Featured Presentation: Complexities of Responses to ECM Mechanics in Pulmonary Fibrosis and Lung Metastasis  
Nuria Gavara, PhD ~ University of Barcelona, Barcelona, Spain  

2:30-2:45  Outstanding Abstract Achievement Award Presentation:  
~  

2:45-3:05  Panel Discussion  

3:05-3:20  Coffee and Networking Break  

**Session XI:**  Concluding Discussion  
Moderator:  
Daniel J. Weiss, MD, PhD ~ University of Vermont, Burlington, VT  

3:20-5:00 PM  Open Discussion - Setting Priorities and Recommendations to the NIH and Other Organizations Regarding Future Research Opportunities  
Shuttle bus - continuous looping from Davis Center to Airport and Hotels.