

**Stem Cells, Cell Therapies, and Bioengineering in Lung Biology and Diseases**  
**PRE-CONFERENCE WORKSHOP ~ July 17, 2023**  
**Stafford Hall ~ University of Vermont Campus**

Note: all times are EDT.

8:25 AM Shuttle bus from hotel (Hotel Vermont/Courtyard Marriott) to UVM HSRF/Given Building

8:30-9:00 Continental Breakfast ~ Stafford Hall, UVM campus

**Practical Course on State-of-the-Art Methods in Stem Cells, Cell Therapies, and Bioengineering**

**Led by: Amy Ryan, PhD, University of Iowa and Daniel J. Weiss, MD, PhD, University of Vermont**

8:55-9:00 Welcome and Introductions ~ **Stafford 101**

9:00-10:30 **Laboratory Techniques Rotation 1:**

Option A: **Using Precision Cut Lung Slices (PCLS) to Study Lung Biology & Disease ~ Stafford 103**

Led by Darcy Wagner's Laboratory (Lund University, SWE)

Option B: **Application of Organoids and Hydrogels to Study Lung Biology & Disease ~ Stafford 104/Votey 336**

Led by Chelsea Magin (University of Colorado, Denver | Anschutz Medical Campus, CO), Evan Hoffman (University of Pennsylvania) and Alicia Tannenberger (University of Colorado, Denver | Anschutz Medical Campus, CO)

Option C: **Application of Flexivent to Study Biomechanical Regulation of Lung Function ~ HSRF 241/Stafford 101**

Led by Bradford Smith's Laboratory (University of Colorado Denver | Anschutz Medical Campus, CO)

10:30-11:00 Coffee and Networking Break

11:00-12:30 PM **Laboratory Techniques Rotation 2:**

Option A: **Using Precision Cut Lung Slices (PCLS) to Study Lung Biology & Disease ~ Stafford 103**

Led by Darcy Wagner's Laboratory (Lund University, SWE)

Option B: **Application of Organoids and Hydrogels to Study Lung Biology & Disease ~ Stafford 104/Votey 336**

Led by Chelsea Magin (University of Colorado, Denver | Anschutz Medical Campus, CO), Evan Hoffman (University of Pennsylvania) and Alicia Tannenberger (University of Colorado, Denver | Anschutz Medical Campus, CO)

Option C: **Application of Flexivent to Study Biomechanical Regulation of Lung Function ~ HSRF 241/Stafford 101**

Led by Bradford Smith's Laboratory (University of Colorado Denver | Anschutz Medical Campus, CO)

12:30-1:30 Lunch and Networking Break

1:30-2:45 **Scientific Skills Rotation:**

Option D: **Introduction to Bioinformatics Analysis ~ Stafford 103**

Led by Dr. Crystal Marconett (Norris Cancer Center, University of Southern California, CA)

Option E: **Developing Your Research Pitch ~ Stafford 104**

Led by Dr. Finn Hawkins (Boston University, MA) & Dr. Jed Mahoney (CFF, Lexington, MA)

Option F: **A Career in Translational Science (High School Students Only) ~ Stafford 101**

Led by Dr. Amy Ryan (University of Iowa, IA) and Dr. Dan Weiss (University of Vermont, VT)

2:45-3:00 Coffee and Networking Break

3:00-4:15 Plenary Session ~ **Stafford 101**

Option G: **Discovair.com: Application of the Human Lung Cell Atlas to Your sc-RNAseq Analysis**

Led by: Prof. Martijn Nawijn (University Medical Center Groningen, The Netherlands)

4:20-4:40 PM Shuttle bus from Stafford Hall to hotels (Hotel Vermont/Courtyard Marriott)