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)