

VirginiaDrugDiscoveryRx: Cardiovascular, Pulmonary and Metabolic Disorders

May 24-25, 2022

Doubletree Midlothian, Richmond VA

DAY 1

10:00 AM - 1:00 PM Meet, Greet & “Collaboreet” (James River Foyer)

12:00 PM - 1:00 PM Poster Session 1 (Parlor EFG)

1:00 PM Talks (Parlor H)
Welcome from Paul Carlier (VT), Chair, VADDC
Welcome from John Newby, CEO, Virginia Bio (VABIO)
Instructions on A/V technology, Q&A sessions, recording talks, bio-break facilities, etc.

Session 1: Pulmonary Drug Discovery

Chair: John Catravas (ODU)
Mikell Paige (GMU)

1:15 PM Keynote 1: Michael Matthay, MD - Professor of Medicine and Anesthesia, UCSF
“Mesenchymal Stromal Cells – Preclinical studies to Clinical Trials for ARDS”

1:50 PM Q&A

2:00 PM Invited Talk 1: Alpha A. (Berry) Fowler III, MD - Professor of Medicine,
VCU Health System
“Pathway to a new therapy to save lives”

2:25 PM Q&A

2:30 PM Invited Talk 2: Rachel Rath, MBA, MPH (BARDA)
“BLUE KNIGHT™: Engaging with a Public-Private Partnership to Drive Preparedness
Solutions”

2:55 PM Q&A

3:00 PM Oral Poster Talk 1

3:10-3:30 PM Refreshments and Bio-Break (Parlor EFG)

Session 2: Cardiovascular Drug Discovery

Chair: Umesh Desai (VCU)
Marion Ehrich (VT)

3:30 PM Keynote 2: David Gailani, MD - Goodpasture Chair in Experimental Pathology for
Translational Research, Vanderbilt
“Coagulation Factor XIa - A novel target for preventing thrombosis”

4:05 PM Q&A

4:15 PM Invited Talk 3: Robert G. Gourdie PhD, Fralin Biomedical Research Institute, and
Department of Biomedical Engineering and Mechanics, Virginia Tech
“Novel milk exosome-based drug delivery technology”

4:40 PM Q&A

- 4:45 PM Invited Talk 4: Jeff Saucerman, Ph.D., F.A.H.A., Professor of Biomedical Engineering and Cardiovascular Medicine, University of Virginia
“Systems pharmacology model to predict drugs for cardiac fibrosis”
- 5:10 PM Q&A
- 5:15 PM Oral Poster Talk 2
- 5:25 PM Oral Poster Talk 3
- 5:35 PM Day 1 Conclusion
- 5:35-6:30 PM Poster Session 2 (Parlor EFG)
- 6-6:30 PM Platinum Sponsor Presentation: Va. Beach Dept. of Economic Development (Parlor EFG)
- 6:30 PM Pre-Dinner Meet, Greet and “Collaboreet” (Shenandoah Corridor)
- 7:00 PM Semi Formal Dinner (Parlor CD)

DAY 2

7:30 - 8:25 AM Breakfast@Hotel (Parlor CD)

8:25 AM Talks (Parlor H)
Welcome from Program Co-Chair Umesh Desai (VCU)

Session 3: Pulmonary Drug Discovery

Chair: Paul Carlier (VT)
Beth Sharlow (UVA)

- 8:30 AM Keynote 3: Yulia A. Komarova, PhD - Department of Pharmacology and Regenerative Medicine, University of Illinois College of Medicine
“From therapeutic target to pharmacological intervention for ARDS: a pre-clinical development study”
- 9:05 AM Q&A
- 9:15 AM Invited Talk 5: Yun Michael Shim, MD - UVA Department of Medicine & Radiology Division of Pulmonary and Critical Care
“Challenges and Pitfalls of Pulmonary Drug Discovery: A case for multidisciplinary integration”
- 9:40 AM Q&A
- 9:45 AM Invited Talk 6: Masahiro Sakagami, Ph.D. - VCU School of Pharmacy, Department of Pharmaceutics
“Targeting Impaired VEGF Signaling for Reversing Emphysema: Case Studies with CDSO3 and Salvianolic Acid B”
- 10:10 AM Q&A
- 10:15 AM Oral Poster Talk 4

10:25 AM Refreshments and Bio-Break (Parlor EFG)

10:25 AM - 11:30 AM Poster Session 3 (Parlor EFG)

Session 4: Metabolic Disorders Drug Discovery

Chair: Cliff Stains (UVA)
Kathryn Cole (CNU)

11:30 AM Keynote 4: David Stepp, PhD - Charbonnier Chair in Physiology, Vascular Biology Center, Medical College of Georgia
“Targeting vascular disease in obesity: Learning from exercise”

12:05 PM Q&A

12:15 PM Invited Talk 7: Webster Santos PhD - Professor, Department of Chemistry and Lilly Faculty Fellow of Drug Discovery, Virginia Tech
“Stereoselective Borylation Reactions & Exercise Pill-a Chemist Approach”

12:40 PM Q&A

12:45 PM Oral Poster Talk 5

1:00 PM Plated Lunch@Hotel (Parlor CD)

1:30 – 2:00 PM Silver Sponsor Presentations: VCU Innovation Gateway (Parlor CD)

Session 5: Drug Discovery At-Large

Chair: Paul Fisher (VCU)
Beth Sharlow (UVA)

2:30 PM Keynote 5: Matthew Hall, PhD - Director, Early Translation Branch, National Center for Advancing Translational Sciences
“Assays to Lead the Way: Drug Discovery at NCATS”

3:05 PM Q&A

3:15 PM Invited Talk 8: Banumathi K. Cole, PhD, Scientific Director at HemoShear Therapeutics
“REVEAL-Tx™: Combining biological and computational models of human disease to accelerate discovery of targets and develop new treatments for diseases”

3:40 PM Q&A

3:45 PM Keynote 6: Michelle Bateson, PhD - VP and Head of R&D, GSK
“A Strategic’s View: The Importance of R&D to Innovative Consumer Health Solutions”

4:20 PM Q&A

4:30 PM Day 2 Conclusion & Close: Paul Carlier (VT), Chair, VADDC