

**VirginiaDrugDiscoveryRx:
Emerging Targets, Technologies, and Therapeutics for Cancer and
Neuroscience**

**May 21-22, 2019
Hotel Roanoke, Roanoke VA**

Day 1 Chairs: Paul Carlier, Elizabeth Sharlow

11:00 am Registration opens
Roanoke Foyer

1:00 pm Symposium Opens
Roanoke Ballroom (DGH)

Welcome from the Honorable Sherman Lea, Mayor, City of Roanoke

Welcome from David G. I. Kingston (Virginia Tech), Meeting Chair

Welcome from Jeff Gallagher, CEO, Virginia Bio

1:15 pm **Keynote 1:** Laura Bohn (Scripps Research Institute)
“Harnessing opioid receptor function to improve physiological responses”

1:55 pm Q & A

2:00 pm **Keynote 2:** Judy Leopold (University of Michigan)
“Precision Polypharmacology: A Rational Design Approach to Cancer Drug Resistance”

2:40 pm Q & A

2:45 pm **Invited Talk 1:** P. Read Montague (Fralin Biomedical Research Institute at VTC & Department of Physics, Virginia Tech) “Addiction is a Computational Disease”

3:00 pm Q & A

3:05 pm **Coffee break/Poster Session**
Roanoke Ballroom (AB)

4:05 pm **Keynote 3:** Craig Lindsley (Vanderbilt University)
“CNS Drug Discovery in an Academic Environment”
Roanoke Ballroom (DGH)

- 4:45 pm Q & A
- 4:50 pm **Invited Talk 2:** Phil Bourne (University of Virginia)
“Drug Discovery in the Age of Data Science”
- 5:05 pm Q & A
- 5:10 pm **Invited Talk 3:** Xiang-Yang Wang (Virginia Commonwealth University)
“Developing the Next Generation of Immune Modulator for Improved Cancer Immunotherapy”
- 5:25 pm Q & A
- 5:30 pm **Panel Discussion 1:** Big Data and Drug Discovery
Phil Bourne (University of Virginia, Chair), Aaron Black (INOVA),
Francis X. Farrell (Carilion)
- 6:15 pm Beer & Biotech Mixer
Roanoke Ballroom (AB)
- 7:30 pm Dinner
Crystal Ballroom
- 8:30 pm After-Dinner remarks by Mike Friedlander (Fralin Biomedical Research Institute
at VTC)

Day 2 Morning Chairs: John Lazo, Umesh Desai

- 8:00 am Continental Breakfast
Roanoke Ballroom (AB)
- 8:30 am Welcome to Day 2
Roanoke Ballroom (DGH)
- 8:35 am **Keynote 4:** Susan Band Horwitz (Albert Einstein College of Medicine)
“Taxol, Tubulin, and Tumors: a Story of Drug Development”
- 9:15 am Q & A
- 9:20 am **Keynote 5:** Susan Amara (National Institute of Mental Health, NIH)
“Dynamic Regulation of Signaling in Dopamine Neurons: New Pathways for
Neuropsychiatric Drug Discovery”

- 10:00 am Q & A
- 10:05 am **Coffee break/Poster Session**
Roanoke Ballroom (AB)
- 11:00 am **Panel Discussion 2: “Key success factors for early stage companies”**
Jim Powers (Hemoshear, Chair), Jeff Conroy (Embody), Robert Lloyd (BrightSpec), Webster Santos (Continuum Bio & Flux Therapeutics), Guy Yachin (Serpina Pharma)
Roanoke Ballroom (DGH)
- 12:00 pm **Lunch and Sponsor Presentations** (Advion, VCU Innovation Gateway)
Roanoke Ballroom (CEF), Elizabeth Sharlow, Moderator.

Day 2 Afternoon Chairs: Ali Andalibi, David Kingston

- 1:15 pm **Invited Speaker 4:** O. John Semmes (Eastern Virginia Medical School)
“Building Multi-Omic Disease Models of Cancer to Drive Personalized Medicine”
- 1:30 pm Q & A
- 1:35 pm **Invited Speaker 5:** Saleet Jafri (George Mason University)
“Translational Applications of Protein Structure Simulation: Predicting Phenotype of Missense Variants”
Roanoke Ballroom (DGH)
- 1:50 pm Q & A
- 1:55 pm **Invited Speaker 6:** Warren Bickel (Fralin Biomedical Research Institute at Virginia Tech Carilion) “Addiction: Identifying a Novel Determinant of Drug Valuation”
- 2:10 pm Q & A
- 2:15 pm **Keynote 6:** Donna Huryn (University of Pittsburgh)
“Development of Novel Inhibitors of the AAA ATPase p97 to Interrogate Novel Biology and Fuel Drug Discovery”
- 2:55 pm Q & A
- 3:00 pm **Keynote 7:** B. Frank Gupton (Virginia Commonwealth University)
“Third World Health Care Issues within the United States”

3:40 pm Keynote Q & A

3:45 pm Symposium Wrap-up

3:50 pm Meeting close

