DAY 1 Chairs (tbd)

11:00 am  Registration opens

1:00 pm  Symposium Opens:
Welcome from David G. I. Kingston (Virginia Tech), Meeting Chair
Welcome from Jeff Gallagher, President, VirginiaBio

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

1:55 pm  Keynote 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  Keynote Q & A

2:45 pm  **Invited Talk 1:** Phil Bourne (University of Virginia)
“Drug Discovery in the Age of Data Science”

3:00 pm  **Coffee break/Poster Session**

4:00 pm  **Keynote 3:** Craig Lindsley (Vanderbilt University)
“CNS Drug Discovery in an Academic Environment”

4:40 pm  Keynote Q & A

4:45 pm  **Invited Talk 2:** P. Read Montague (Fralin Biomedical Research Institute at Virginia Tech Carilion & Department of Physics, Virginia Tech)
“Addiction is a Computational Disease”
5:00 pm **Invited Talk 3**: Xiang-Yang Wang (Virginia Commonwealth University)  
“Developing the Next Generation of Immune Modulator for Improved Cancer Immunotherapy”

5:15 pm **Panel Discussion 1**: Big Data and Drug Discovery  
Phil Bourne (University of Virginia), Chair

6:15 pm Beer & Biotech Mixer

7:30 pm Dinner

8:30 pm After-Dinner remarks by Mike Friedlander (Fralin Biomedical Research Institute at Virginia Tech Carilion)

Day 2 Chairs (tbd)

7:30 am Breakfast

8:30 am Welcome to Day 2:

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 Keynote Q & A

9:20 am **Keynote 5**: Susan Amara (NIH)  
“Dynamic regulation of signaling in dopamine neurons: new pathways for neuropsychiatric drug discovery”

10:00 am Keynote Q & A

10:05 am **Coffee break/Poster Session**

11:00 am **Panel Discussion 2**: “How to move your project towards commercialization and win a Catalyst award”  
Jim Powers (Hemoshear), Chair

12:00 pm **Lunch and Sponsor Presentations** (Advion, VCU Innovation Gateway)

1:00 pm **Invited Speaker 4**: Saleet Jafri (George Mason University)  
“Translational Applications of Protein Structure Simulation: Predicting Phenotype of Missense Variants”
1:15 pm  **Invited Speaker 5:** O. John Semmes (Eastern Virginia Medical School)  
“Building Multi-Omic Disease Models of Cancer to Drive Personalized Medicine”

1:30 pm  **Invited Speaker 6:** Warren Bickel (Fralin Biomedical Research Institute at Virginia Tech Carilion) representing the iTHRIV CTSA award team  
title: tbd

1:45 pm  **Gold Sponsor:** The Medicines For All Initiative  
B. Frank Gupton (Virginia Commonwealth University)

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  Keynote Q & A

3:00 pm  Symposium Wrap-up

3:15 pm  Meeting close