



INFECTIOUS DISEASE
RESEARCH CENTER
COLORADO STATE UNIVERSITY



Symposium Agenda

Day 1 – Wednesday June 7, 2017

12–3 p.m. Optional IDRC Foothills Campus Tours.

3 p.m. Registration opens at University Center for the Arts.

4–4:30 p.m. Opening statements by Dr. Ray Goodrich & Dr. Alan Rudolph.

4:30–5 p.m. Dr. Nicole Archambeau, CSU: *Modern Disease, Medieval Cures: MRSA, Plague, and the History of Yersinia Pestis*

5–6 p.m. Keynote by Dr. Michael Kurilla, NIAID: *Infectious Disease & Public Health: Reactive, Proactive, Hyperactive, and Somewhat Unattractive with 15 minutes Q&A.*

6–6:30 p.m. Dr. Brad Ringeisen, DARPA: *DARPA Biological Technologies Office: Outpacing Infectious Disease*

6:30–7:30 p.m. Socializing hour with cocktails, hot appetizers, and live music.

Day 2 – Thursday June 8, 2017

7:30–8 a.m. Registration, Coffee and Networking

8–8:15 a.m. Opening statements by Organizers, Session Chairs.

8:15–9 a.m. COL Michael Kozar, The US Military Infectious Diseases Research Program: *Research Gaps and Opportunities*

Session 1 – Manufacturing and Delivering on Products to Address Public Health Concerns

Chair: Dr. Dennis Pierro

9–9:30 a.m. Dr. Scott Walker, Merck: *Large-scale Antibacterial Screening and Systematic Hit Triage Reveal Novel Targets and Novel Inhibitors for Established Targets*

9:30–9:50 a.m. Dr. Richard Bowen, CSU: *TerraForma Lab and Methods for Understanding Infectious Agent Behavior in Natural Environments*

9:50–10:10 a.m. Dr. Heidi Nelson-Keherly, CSSi LifeSciences: *Development of Vaccines for Infectious Diseases: The Pathway for Development of Vaccines for both humans (FDA) and animals (USDA)*

10:10–10:30 a.m. Dr. Dennis Pierro, CSU: *Continuous Manufacturing and Other Innovations for Biological Product Manufacturing*

10:30–10:45 a.m. *Discussion & Q/A*

10:45–11:00 a.m. *Morning Coffee Break*

11:10–11:30 a.m. Dr. Jeff Wilusz, CSU: *How RNA Viruses Escape the Wrath of the Cellular RNA Decay Machinery*

11:30–11:50 a.m. Dr. Brad Borlee, CSU: *Feral Macrophage and Models for Investigating Biofilm Organization and Disruption*

11:50 a.m.–12:10 p.m. Dr. Jeannine Petersen, CDC: *Metagenomics as a High-Throughput Tool for Unbiased Detection of Tick-Borne Agents in Clinical Specimens*

12:10–12:30 p.m. Dr. Claudia Molins, CDC: *Mass Spectrometry and Small Molecule Biomarkers as a Novel Diagnostic for Tick-Borne Pathogens*

12:30–12:45 p.m. *Discussion & Q/A*

12:45–1:45 p.m. *Lunch*

Session 2 – The New Frontiers of Infectious Disease Research

Chair: Dr. Ed Hoover & Dr. John Belisle



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1:45–2 p.m. Dr. Gregg Dean, CSU: *Introduction to Colorado State University’s Department of Microbiology, Immunology & Pathology*

2–2:30 p.m. Dr. Mike Busch, BSRI: *Addressing the Challenges of Emerging Arbovirus Infectious Agents for Transfusion Safety*

2:30–2:50 p.m. Dr. Brian Foy, CSU: *CSU’s AIDL: Combining lab and field studies to understand and control vector-borne diseases in Colorado and globally*

2:50–3:10 p.m. Dr. Anne Lenaerts, CSU: *New Tools in Preclinical Drug Development for Tuberculosis*

3–3:30 p.m. Dr. Candace Mathiason, CSU: *Protein Misfolding Disorders... and Beyond*

3:30–3:45 p.m. *Discussion & Q/A*

3:45–4:15 p.m. *Afternoon Coffee Break*

4:15–4:45 p.m. Dr. Brian Kidd, Mount Sinai: *The Discovery of Translational Tools for Infectious Diseases via Systems Immunology*

4:45–5:15 p.m. Dr. Joe Dudley, Leidos Inc: *Keystone Challenges for Infectious Disease Research in the 21st Century: Pathogen/Host Ecology and Epidemiology*

5:15–5:35 p.m. Dr. Ric Slayden, CSU: *Next generation treatment strategies for bacterial infections*

5:35–5:55 p.m. Dr. Brendan Podell, CSU: *The Pathologic Intersection of Metabolism and Infectious Disease*

5:55–6:15 p.m. Dr. Rushika Perera, CSU: *The MINDER Initiative: Emerging Role of Metabolism in Infectious Disease Research*

6:15–6:30 p.m. *Discussion & Q/A*



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6:30–7:30 p.m. Happy Hour

Day 3 – Friday June 9, 2017

7:30–8 a.m. Registration, Coffee and Networking

8–8:05 a.m. Opening statements by Organizers, Session Chairs.

8:05–8:45 a.m. Dr. Gavin Macgregor-Skinner, Abt Associates: *Decision Support Systems: Translating Research to Public Health Action*

Session 3 – Biomedical Engineering in the BioPharma Industry

Chair: Dr. Stu Tobet & Dr. Dave Dandy

8:45–9:15 a.m. Dr. Abhaya Dandekar, UC Davis: *Reprogramming plant cells for the just-in-time production of human therapeutics*

9:15–9:40 a.m. Dr. Amy Charkowski, CSU: *Infectious disease in plants – the role of plant public health in producing a healthy seed supply*

9:40–10:05 a.m. Dr. Jean Peccoud, CSU: *Cyberbiosecurity in Biopharmaceutical and Biological Manufacturing*

10:05–10:20 a.m. Discussion & Q/A

10:20–10:45 a.m. Morning Coffee Break

10:45–11:15 a.m. Tina Larson, Achaogen: *Making Drugs for Superbugs*

11:15–11:40 a.m. Dr. Heather Pidcoke, Terumo BCT: *Mirasol* Pathogen Reduction Technology (PRT) System for Platelets, Plasma, and Whole Blood*

11:40 a.m.–12:05 p.m. Dr. Ken Reardon, CSU: *Sensors for Continuous Monitoring of Disposable Bioreactors*



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12:05–12:20 p.m. Discussion & Q/A

12:20–1:30 p.m. Lunch

Session 4 – Advancing Infectious Disease Research

Chair: Dr. Ray Goodrich

1:30–2 p.m. Dr. Mark Lupa, High Country Venture: *From Science to Business: Challenges and Opportunities for Biotech*

2:00–2:20 p.m. Dr. Josh Lipton & Dr. Michelle Krasnec, Abt Associates: *A geospatial visualization tool to assess Zika virus transmission risk under alternative scenarios*

2:20–2:40 p.m. Dr. Joseph Kittle, ProClRx: *Targeting Extracellular DNA Binding Proteins to Defeat Bacterial Biofilms*

2:40–3 p.m. Amy Aspelund, Vivaldi BioScience: *Development of a Genetically Attenuated Influenza Vaccine for Greater Efficacy and Broad Cross Protection*

3-3:20 p.m. Dr. Lyndsey Linke, SiVEC Biotechnologies: *A Rapid-Response Antiviral for Poultry: Aerosolized Ammunition against Avian Influenza Outbreaks*

3:20–3:30 p.m. Closing Remarks & Q/A

3:30–5:30 p.m. Optional Brewery Tasting Event



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