



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 Ray Goodrich & Alan Rudolph.

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

**5–6 p.m.** Keynote by Michael Kurilla (NIAID) with 15 minutes Q&A.

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

**6:30–7:30 p.m.** Socializing hour with cocktails and hot appetizers.

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, Military Infectious Diseases Research Program: *Mass spectrometry and small molecule biomarkers as a novel diagnostic for tick-borne pathogens*

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

**Chair: Dennis Pierro**

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

**9:50–10:10 a.m.** 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.** 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.** Jeff Wilusz, CSU: *How RNA Viruses Escape the Wrath of the Cellular RNA Decay Machinery*

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

**11:50 a.m.–12:10 p.m.** 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.** 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: Gregg Dean, John Belisle**



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**1:45–2 p.m.** Ed Hoover & John Belisle, CSU: *Introduction to Colorado State University's Department of Microbiology, Immunology & Pathology*

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

**2:30–2:50 p.m.** 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.** Anne Lenaerts, CSU: *New Tools in Preclinical Drug Development for Tuberculosis*

**3–3:30 p.m.** 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.** Brian Kidd, Mount Sinai: *The Discovery of Translational Tools for Infectious Diseases via Systems Immunology*

**4:45–5:15 p.m.** 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.** Ric Slayden, CSU: *Next generation treatment strategies for bacterial infections*

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

**5:55–6:15 p.m.** 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. Gavin Macgregor-Skinner, Abt Associates: *Decision Support Systems: Translating Research to Public Health Action***

**Session 3 – Biomedical Engineering in the BioPharma Industry**

***Chair: Stu Tobet, Dave Dandy***

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

**9:15–9:40 a.m. 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. 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. Heather Pidcoke, Terumo BCT: *Mirasol Pathogen Reduction Technology***

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

**12:05–12:20 p.m. *Discussion & Q/A***



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**12:20–1:30 p.m. Lunch**

**Session 4 – Advancing Infectious Disease Research**

**Chair: Ray Goodrich**

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

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

**2:20–2:40 p.m.** Joseph Kittle, ProClaRx: *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.** 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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