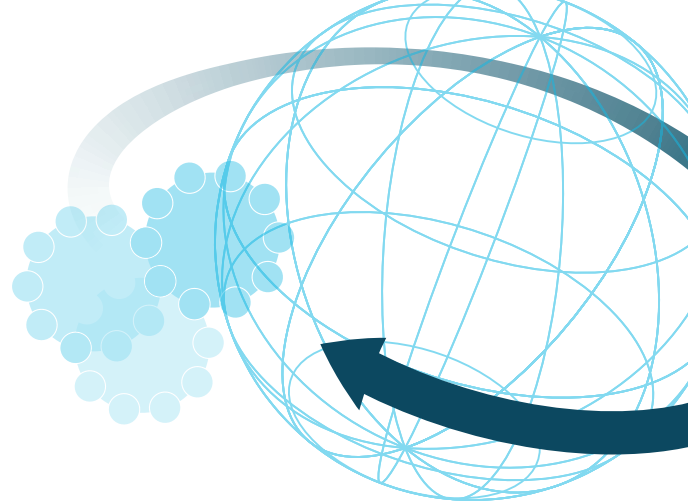


Viral Traits & Infectious Disease Emergence

September 9–10, 2024



Monday, 9 September

8:00 AM Welcome — *Light breakfast, coffee, tea, and juice*
Welcoming remarks given by John Drake, CEID

8:30 AM
Michael Letko:
“Looking for pre emergent threats with functional viromics”

9:00 AM
Christine Kreuder Johnson (REMOTE):
“On the Frontlines: Surveillance for Emerging Viruses”

9:30 AM Break — *Light snacks, coffee, tea, and juice*

10:00 AM
Angel Desai (REMOTE):
“Spillovers 2.0: Assessing the Risk and Preparing for Disease X”

10:30 AM
Iris Holmes:
“Will Pathogen X follow the path of other spillovers?”

11:00 AM
Panel discussion: The Big Picture

11:30 AM Working lunch — *Lunch served in the CEID*

1:30 PM
Sophie Lockwood:
“Leveraging within-host models to understand patterns in viral virulence and shedding”

2:00 PM Poster session and break — *Light snacks, coffee, tea, and juice*

3:00 PM
Alison Kell:
“Understanding hantavirus virulence through host-specific innate immune activation”

3:30 PM
Raina Plowright (REMOTE):
“Determinants of spillover from virus and host perspectives”

4:00 PM
Panel Discussion: The Host Perspective

4:30 PM
Conclusion and review of details for symposium dinner

6:00–9:00 PM Dinner — *Networking dinner at the Rialto Club, Hotel Indigo*

Tuesday, 10 September

9:00 AM Breakfast — *Light breakfast, coffee, tea, and juice*

9:15 AM
Review of the agenda and welcoming remarks

9:30 AM
Colin Carlson (REMOTE):
“Looking for biochemistry in all the wrong places: the dimensionality-interpretability tradeoff and embedding-based shortcuts”

10:00 AM
Asher Leeks (REMOTE):
“Social conflict within viral populations: from evolutionary causes to epidemiological consequences”

10:30 AM
Tyler Starr:
“Molecular evolution of SARS-CoV-2 and related bat coronaviruses”

11:00 AM
Jayna Raghvani:
“How do viruses persist in changeable environments?”

11:30 AM Panel Discussion: The Virus’ Point of View

12:00 PM Working lunch — *Lunch served in the CEID*

1:00 PM
Stephanie Siefert:
“Predicting host-virus compatibility from -omics data: promise and pitfalls”

1:30 PM
Louise Moncla:
“Phylogenetic approaches for reconstructing highly pathogenic avian influenza evolution and transmission”

2:00 PM
Heather Wells:
“Genetic and Ecological Drivers of Coronavirus Recombination”

2:30 PM
Katia Koelle:
“Viral traits and pandemic emergence: can we bridge the disconnect with multiscale models”

3:00 PM Panel Discussion: Ecology, Evolution, and Genetics

3:30 PM Break — *Light snacks, coffee, tea, and juice*

3:45–5:00 PM
Synthesis Session and closing remarks