COVID-19 SYMPOSIUM
JUNE 4, 2021

Presented by The Immunology, Inflammation, and Infectious Disease Initiative (3i). Register HERE today!

9:00 AM – WELCOME AND OVERVIEW
Daniel Leung, MD, MSc, & Ryan O’Connell, PhD, 3i Initiative Directors

9:05 AM – OPENING KEYNOTES (moderated by Daniel Leung, MD, MSc)
Lindsay T. Keegan, PhD - Model-Based Decision Support for COVID-19 in Utah
Julio Delgado, MD, MS - COVID-19 Laboratory Testing: A Tale of Delays, Confusion, Improvisation, Innovation

10:00 AM – CONCURRENT SESSIONS 1 & 2

SESSION 1: Data Science & Genomic Medicine (moderated by Yves Lussier, MD)
Ravi Chandran, PhD - Physics based Modeling of the Spread of COVID-19 Infection
Ram Gouripeddi, MS & Julio Facelli, PhD - Informatics for COVID-19 Research
Stephen Goldstein, PhD - Extensive Recombination-Driven Coronavirus Diversification Expands the Pool of Potential Pandemic Pathogens
Kyle Kazemini - A Modular, Performance-Oriented Network Model for COVID-19 in Long Term Care Facilities
Clement Vachet, MS - AI/CXR early warning system for infectious respiratory disease outbreaks

SESSION 2: Environmental Impact/Minimizing Exposure (moderated by Kerry Kelly, PhD)
James Sutherland, PhD - Using Computational Fluid Dynamics to Inform COVID-19 Risk Mitigation Strategies
Divya Chandrasekhar, PhD - Responding to Concurrent Disasters: Perspectives From the Field
Andy Hong, PhD, PE - Disinfection of Coronavirus Surrogate by Airborne Microdroplets
Hanseup Kim, PhD - Development of an In-situ Airborne Virus Sensor

11:00 AM – SPECIAL COMMUNITY LECTURE / LUNCH / POSTER SESSION

Special Virtual Lecture: Research During a Crisis: How University of Utah Scientists Mobilized to Learn More About and Fight COVID-19
This is a separate event from the main symposium. You will need to register separately: https://my.demio.com/ref/hjbR8PlqVrzwx9o

12:05PM – CONCURRENT SESSIONS 3 & 4

SESSION 3: Social Impact & Policy (moderated by Richard Forster, PhD)
Anna Neatrour, MLIS - COVID-19 and Oral Histories
Alexander Hohl, PhD - Understanding Adverse Population Sentiment Towards the Spread of COVID-19 in the United States
Tabitha Benney, PhD - Intra-city variability of fine particulate matter during COVID-19 lockdown: A case study from Park City, Utah
Sonia Salari, PhD - Measuring a Multidemic: A Mixed-Methods Study of COVID-19 Impacts on Domestic Violence Across the Life-Course
Rachel Nelson - Communication Technology in Public Health: Lessons from the COVID-19 Pandemic in Utah
Mike Lindow - Partisanship, Fear, and Resistance to COVID-19 Directives
Holly Shoemaker, MPH - Longitudinal survey of Telehealth during COVID-19
SESSION 4: Impacts Across Populations (moderated by Steven Lacey, MS, PhD)

- Rebecca G. Simmons, MPH, PhD - Contraceptive use in Utah during the Covid-19 Pandemic
- Kristin G. Clayes, PhD, MN, RN - Cancer, caregiving, and the COVID-19 pandemic: Exploring impact on social support networks and interactions, stress, and mental health of cancer survivors and their caregivers
- Sara Grineski, PhD - Anxiety and depression among US college students engaging in undergraduate research during the COVID-19 pandemic
- Frederik Denorme, PhD - Neutrophil extracellular traps contribute to immunothrombosis in COVID-19 acute respiratory distress syndrome
- Alex Beams - Common Colds might not be so "Common" in the future
- Bernadette Kiraly, MD - Long-Haul COVID-19: Understanding patient needs

Parham Namdaran, MD - Cardiac and inflammatory biomarkers in predicting adverse cardiac outcomes in high-risk patients with COVID-19

1:30PM – AFTERNOON KEYNOTES (moderated by Chris Hill, DPhil)

- Andrew J. Smith, PhD - Harnessing Recovery Capital to Meet Resilience Challenges
- Jake Jensen, PhD - Public Perception of COVID Communication Across 36 Weeks: A Rolling Cross-Sectional Design with U.S. Adults

2:30 PM – BREAK / POSTER SESSION

2:45 PM – CONCURRENT SESSIONS 5 & 6

SESSION 5: Mental Health & The Brain (moderated by Deborah Yurgelun-Todd, PhD)

- Joseph Kim, PhD - Risk and Resilience to Loneliness in Older Adults during the COVID-19 Pandemic: Wave 1
- Monisha Pasapathi, PhD - College, Interrupted: Covid-19 and First-year Students
- Kiran Kaur, MS - Impact of COVID-19 on Emotional Health for Five Communities of Color in Salt Lake City
- Su Rin Choi - Social Interaction and Sleep during COVID-19
- Dylan Neff, HBS, BMus - Risk and resiliency in pregnant women during COVID-19
- Kelly J. Mansfield, BSN, RN - Comparing Audio Diaries of Cancer Survivors and their Support Person During COVID-19

SESSION 6: Testing and Treating COVID-19 (moderated by Alfred K. Cheung, MD)

- Hans Haecker, MD, PhD - A simple, rapid and affordable point of care test for detection of SARS-CoV-2-specific antibodies based on hemagglutination and AI-based image interpretation
- Robert Paine III, MD - Induction of ACE2 in the alveolar epithelium by hypoxia- implications for the pathogenesis of acute respiratory failure in COVID-19
- Shawn Owen, PhD - Split-luciferase assays for rapid and sensitive detection of anti-SARS CoV-2 antibodies
- Sarah Apple, PhD - Discovery and Design of a D-peptide Entry Inhibitor of SARS-Related Coronavirus
- Jeff Sellman, MD - COVID Aftercare Clinic: A Multidisciplinary Approach to Long COVID
- Danielle Green, MD - Remdesivir Extraction by Extracorporeal Life Support Circuits

4:00PM – CLOSING KEYNOTES (moderated by Willard H. Dere, MD)

- Elizabeth A. Middleton, MD - COVID-19: A Reflection on Opportunity During a Crisis
- Jennifer Weidhaas, PhD, PE(ID) - Monitoring SARS-CoV-2 in sewersheds and trend analysis

5:00 PM – CONCLUSION

Andrew S. Weyrich, PhD