

Rutgers COVID-19 Research Retreat 2021

Thursday, December 2, 2021

9:00 am – 3:30 pm EST

Register at <https://bit.ly/3CGU6dk>

Join us on Zoom at <https://bit.ly/3CLDqBO>

Meeting ID: 947 9154 6205

Passcode: 492439

Retreat Agenda

| <u>Time</u> | <u>Title</u> | <u>Presenter</u> |
|--|---|---|
| 9:00 am | Zoom link live for attendees to join | |
| 9:15 | Welcome, Opening Remarks | <p><i>William Gause, PhD</i> Senior Associate Dean for Research, NJMS Director, RBHS Institute for Infectious and Inflammatory Diseases (i³D)</p> <p><i>Jonathan Holloway, PhD</i> President, Rutgers University</p> <p><i>David Alland, MD</i> Director, Center for COVID-19 Response and Pandemic Preparedness (CCRP2)</p> |
| <u>Session 1: Basic, Clinical, and Translational Science</u> | | |
| <i>Moderated by Amariliz Rivera, PhD (Center for Immunity and Inflammation)</i> | | |
| 9:30 am | A novel discovery platform for SARS-CoV-2 vaccines with enhanced potency and more broadly protective immunity | <p><i>Stephen Anderson, PhD</i> Center for Advanced Biotechnology and Medicine</p> |
| 9:45 | CAR-NK for COVID-19 | <p><i>Dongfang Liu, PhD</i> Center for Immunity and Inflammation</p> |
| 10:00 | Hamster model of SARS-CoV-2 infection | <p><i>Selvakumar Subbian, PhD</i> Public Health Research Institute</p> |
| 10:15 | An intra-cytoplasmic route for SARS-CoV-2 transmission unveiled by Helium-ion microscopy | <p><i>Antonio Merolli, MD</i> Department of Physics and Astronomy</p> |

- 10:30 Impact of acute SARS-CoV-2 infection on human plasmacytoid dendritic cells *Patricia Fitzgerald-Bocarsly, PhD*
Center for Immunity and Inflammation
- 10:45 Novel suction-based *in vivo* cutaneous DNA transfection platform for SARS-CoV-2 vaccine delivery *Hao Lin, PhD*
Department of Mechanical Engineering

11:00 am ----- Break -----

Session 2: Public Health and Epidemiology

Moderated by *Henry Raymond, DrPH, MPH* (School of Public Health)

- 11:15 am Presence of SARS-CoV-2 aerosol in homes of COVID-19 patients *Howard Kipen, MD, MPH*
Environmental and Occupational Health Sciences Institute
- 11:30 More accessible COVID-19 treatment through monoclonal antibody infusion in the Emergency Department *Sara Heinert, PhD, MPH*
Department of Emergency Medicine
- 11:45 Assessing mental health of pregnant women during the SARS-CoV-2 pandemic *Ashna Shome*
New Jersey Medical School
- 12:00 pm Sewer epidemiology for SARS-CoV-2: Individual buildings to millions of gallons per day *William Morales Medina, PhD*
Department of Civil & Environmental Engineering

12:15 pm ----- Break -----

Keynote Speaker Presentation

Introduced by *Amariliz Rivera, PhD* (Center for Immunity and Inflammation)

- 12:30 pm Innate immune dysfunction in COVID-19 *Catherine Blish, MD, PhD*
Professor of Medicine
Stanford University

1:30 pm ----- Break -----

Session 3: Social Sciences

Moderated by *Jason Yang, PhD* (Center for Emerging Pathogens)

- 2:00 pm COVID-19 policy response and population mental health in Uganda *Slawa Rokicki, PhD*
School of Public Health
- 2:15 Carceral ethnography in a time of pandemic: examining the detention and deportation of migrants during COVID-19 *Ulla Berg, PhD*
Department of Latino & Caribbean Studies
- 2:30 COVID-19 vaccine misperceptions, uncertainty, and health outcomes *Katherine Ognyanova, PhD*
School of Communication and Information

- 2:45 Racial and ethnic differences in vaccine hesitancy among registered nurses in New Jersey: a cross-sectional survey *Pamela de Cordova, PhD*
School of Nursing
- 3:00 Mental health issues for front line hospital staff during height COVID-19 pandemic *Cheryl Ann Kennedy, MD*
New Jersey Medical School
- 3:15 Are the needs of immunosuppressed pediatric patients and young adults during the COVID-19 pandemic being met? Preliminary data from a single institution *Lauren Freidenrich*
Robert Wood Johnson Medical School
- 3:30 pm ----- **Adjourn** -----