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

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>9:00 am</td>
<td>Zoom link live for attendees to join</td>
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| 9:15   | Welcome, opening remarks                                            | David Alland, MD  
Director, CCRP2                                      |

Session 1: Basic, Clinical, and Translational Science

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>9:30 am</td>
<td>A novel discovery platform for SARS-CoV-2 vaccines with enhanced potency and more broadly protective immunity</td>
<td>Stephen Anderson, PhD</td>
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<tr>
<td>9:45</td>
<td>Novel suction-based <em>in vivo</em> cutaneous DNA transfection platform for SARS-CoV-2 vaccine delivery</td>
<td>Hao Lin, PhD</td>
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<td>10:00</td>
<td>CAR-NK for COVID-19</td>
<td>Dongfang Liu, PhD</td>
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<td>10:15</td>
<td>Hamster model of SARS-CoV-2 infection</td>
<td>Selvakumar Subbian, PhD</td>
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<td>10:30</td>
<td>Impact of acute SARS-CoV-2 infection on human plasmacytoid dendritic cells</td>
<td>Patricia Fitzgerald-Bocarsly, PhD</td>
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<tr>
<td>10:45</td>
<td>An intra-cytoplasmic route for SARS-CoV-2 transmission unveiled by Helium-ion microscopy</td>
<td>Antonio Merolli, MD</td>
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11:00 am ----- Break -----
**Session 2: Public Health and Epidemiology**

11:15 am  Presence of SARS-CoV-2 aerosol in homes of COVID-19 patients  
Howard Kipen, MD, MPH

11:30  More accessible COVID-19 treatment through monoclonal antibody infusion in the Emergency Department  
Sara Heinert, PhD, MPH

11:45  Assessing mental health of pregnant women during the SARS-CoV-2 pandemic  
Ashna Shome

12:00 pm  Sewer epidemiology for SARS-CoV-2: Individual buildings to millions of gallons per day  
William Morales Medina, PhD

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

**Keynote Speaker Presentation**

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

**Session 3: Social Sciences**

2:00 pm  COVID-19 policy response and population mental health in Uganda  
Slawa Rokicki, PhD

2:15  Migrant detention, deportation, and COVID-19 transmission: public health and safety challenges in New Jersey  
Ulla Berg, PhD

2:30  COVID-19 vaccine misperceptions, uncertainty, and health outcomes  
Katherine Ognyanova, PhD

2:45  Racial and ethnic differences in vaccine hesitancy among registered nurses in New Jersey: a cross-sectional survey  
Pamela de Cordova, PhD

3:00  Mental health issues for front line hospital staff during height COVID-19 pandemic  
Cheryl Ann Kennedy, MD

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

3:30 pm  
----- Adjourn -----