Rutgers COVID-19 Research Retreat 2021

Thursday, December 2, 2021
9:00 am – 3:30 pm EST


Meeting ID: 947 9154 6205
Passcode: 492439

---

## Retreat Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 am</td>
<td>Zoom link live for attendees to join</td>
<td></td>
</tr>
<tr>
<td>9:15</td>
<td>Welcome, Opening Remarks</td>
<td>William Gause, PhD&lt;br&gt;Senior Associate Dean for Research, NJMS&lt;br&gt;Director, RBHS Institute for Infectious and Inflammatory Diseases (iID)</td>
</tr>
</tbody>
</table>

### Session 1: Basic, Clinical, and Translational Science

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
</tr>
</thead>
<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&lt;br&gt;Center for Advanced Biotechnology and Medicine</td>
</tr>
<tr>
<td>9:45</td>
<td>CAR-NK for COVID-19</td>
<td>Dongfang Liu, PhD&lt;br&gt;Center for Immunity and Inflammation</td>
</tr>
<tr>
<td>10:00</td>
<td>Hamster model of SARS-CoV-2 infection</td>
<td>Selvakumar Subbian, PhD&lt;br&gt;Public Health Research Institute</td>
</tr>
<tr>
<td>10:15</td>
<td>An intra-cytoplasmic route for SARS-CoV-2 transmission unveiled by Helium-ion microscopy</td>
<td>Antonio Merolli, MD&lt;br&gt;Department of Physics and Astronomy</td>
</tr>
</tbody>
</table>
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*
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:45</td>
<td>Racial and ethnic differences in vaccine hesitancy among registered nurses in New Jersey: a cross-sectional survey</td>
<td>Pamela de Cordova, PhD</td>
<td>School of Nursing</td>
</tr>
<tr>
<td>3:00</td>
<td>Mental health issues for front line hospital staff during height COVID-19 pandemic</td>
<td>Cheryl Ann Kennedy, MD</td>
<td>New Jersey Medical School</td>
</tr>
<tr>
<td>3:15</td>
<td>Are the needs of immunosuppressed pediatric patients and young adults during the COVID-19 pandemic being met? Preliminary data from a single institution</td>
<td>Lauren Freidenrich</td>
<td>Robert Wood Johnson Medical School</td>
</tr>
</tbody>
</table>

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