Infectious Diseases Institute Virtual 3rd Annual Meeting

**Thursday, April 22, 2021 | 8:30 a.m. – 6:00 p.m.**

Please join us for an all-day meeting featuring two keynote speakers, breakout sessions & short talks!

We strive to host inclusive events that enable all individuals to engage fully. If you require an accommodation, such as live captioning, please contact us at IDI@osu.edu.

**Schedule in Brief:**

You must register for each session you plan to attend separately. Please contact us at IDI@osu.edu with questions.

**8:30-8:45 am | Welcome & Introduction**

Mike Oglesbee
[Register for this session here >>](#)

**9-10 am | Morning Keynote Address**

Kenneth P. Wright
[Register for this session here >>](#)

Same link as welcome session

**10:15-11:15 am | Morning Breakout Sessions**

1. **Emerging Topics in Microbiome Science**
   
   Matt Sullivan, Kenneth Wright, Matt Anderson, Karen Dannemiller, Virginia Rich, Zakee Sabree
   [Register for this session here >>](#)
   
   Same link as AM keynote & welcome session

2. **Introducing the IDI Trainee Association**
   [Register for this session here >>](#)

3. **Faculty Short Talk Session A**
   
   Mark Mitton-Fry, Melanie Ivey, Sanggu Kim, Anastasia Vasova
   [Register for this session here >>](#)

**11:30-12:30 pm | Morning Short Talks**

- **Trainee Short Talk Session A**
  
  Jessica Findsen, Tracy Prinster, Enming Xing
  [Register for this session here >>](#)

- **Trainee Short Talk Session B**
  
  Daniel Brook, Manuja Gunasena, Veronica Roman
  [Register for this session here >>](#)

**1-2 pm | Afternoon Keynote Address**

Akiko Iwasaki
[Register for this session here >>](#)

**2:15-3:15 pm | Afternoon Breakout Sessions**

1. **Virology Discussion Panel (at 2-2:30 pm)**
   
   Shan-Lu Liu, Akiko Iwasaki, Dan Jones, Zihai Li, Eugene Oltz, Linda Saif
   [Register for this session here >>](#)
   
   Same link as afternoon keynote

2. **Infectious Disease in Context**
   
   Erin Moore, Jodi Ford, Alison Norris, Barbara Piperata
   [Register for this session here >>](#)

3. **Career Resilience During a Pandemic**
   
   John Gunn, Adriana Forero, Jerry Lio, Fernanda Novais, Qiuhong Wang
   [Register for this session here >>](#)

**3:30-4:45 pm | Afternoon Short Talks**

- **Trainee Short Talk Session C**
  
  Erin Connors, Stephanie Ray, Jenna Sandala, Amelia Staats
  [Register for this session here >>](#)

- **Trainee Short Talk Session D**
  
  Songyu Dong, Andrew Schwieters, Harley Vossler, Kush Kumar Yadav
  [Register for this session here >>](#)

- **Faculty Short Talk Session B**
  
  Jonathan Jacobs, Scott Kenney, Namal Liyanage, Amit Sharma, Haitao Wen
  [Register for this session here >>](#)

**5-6 pm | Evening Discussion & Networking**

Science Communication & ID in Literature

Angus Fletcher, Brook Zentmeyer
[Register for this session here >>](#)
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Full Meeting Agenda:

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
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</table>
| 8:30 – 8:45 a.m. | Welcome & Introduction  
Mike Oglesbee, DVM, PhD  
Register here >> |

9:00 – 10:00 a.m. | Morning Keynote Address

**Impact of Sleep and Circadian Disruption on Microbiome Function and Host Physiology**

**Kenneth P. Wright Jr., PhD**  
Arts & Sciences Professor of Distinction  
Associate Chair of Graduate Studies  
Department of Integrative Physiology  
Director of the Sleep and Chronobiology Laboratory  
University of Colorado Boulder  

*Host: Matt Sullivan, PhD*

Same Zoom link as welcome session at 8:30 a.m.

Click here to register for this session >>

10:15 – 11:15 a.m. | Morning Breakout Sessions (select one to attend)

**Emerging Topics in Microbiome Science**

Discussion hosted & facilitated by: **Matt Sullivan, PhD**
with: **Kenneth Wright, PhD**, University of Colorado Boulder  
Matt Anderson, PhD  
Karen Dannemiller, PhD  
Virginia Rich, PhD  
Zakee Sabree, PhD

Same Zoom link as welcome session & morning keynote

Click here to register for this session >>
### Infectious Diseases Institute Virtual 3rd Annual Meeting

**Thursday, April 22, 2021 | 8:30 a.m. – 6:00 p.m.**

<table>
<thead>
<tr>
<th>Introducing the IDI Trainee Association</th>
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<tbody>
<tr>
<td>Get to know the steering committee of the newly-formed Infectious Diseases Institute Trainee Association (IDI-TA), learn about upcoming opportunities, and let us know what kind of activities you’d like to see!</td>
</tr>
<tr>
<td><strong>Steering Committee:</strong> Jenna Sandala, Daniel Brook, Erin Connors, Olivia Harder, Kristen Lillemoen, Sarah Linn, Dillon McBride, Veronica Roman, Andrew Schwieters, Pattama Ulrich, John Gunn, Carol Anelli, Katie McAfee, Brooke Zentmeyer</td>
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<tr>
<td>&amp;</td>
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<tr>
<td>Short talks by recipients of the Fall 2020 IDI Trainee Transformative Research Grant: Lauren Otto &amp; Juan de Dios Ruiz Rosado, PhD</td>
</tr>
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**Click here to register for this session >>**

<table>
<thead>
<tr>
<th>Faculty Short Talk Session A</th>
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<tbody>
<tr>
<td><strong>Optimization of Dioxane-Linked Novel Bacterial Topoisomerase Inhibitors: Identification of a Lead with in vivo Efficacy</strong></td>
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<tr>
<td>Mark Mitton-Fry, PhD</td>
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<tr>
<td><strong>Antifungal Resistance in Humans and the Environment</strong></td>
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<tr>
<td>Melanie L. Ivey, PhD</td>
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<tr>
<td><strong>Nanopore sequencing for viral genetic and epigenetic study</strong></td>
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<tr>
<td>Sanggu Kim, PhD</td>
</tr>
<tr>
<td><strong>Glycan Mediated Host-Microbe Interactions</strong></td>
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<tr>
<td>Anastasia Vlasova, DVM, PhD</td>
</tr>
</tbody>
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**Click here to register for this session >>**

| 11:30 a.m. – 12:30 p.m. | Morning Short Talks (select one to attend) |
|-------------------------|
| **Trainee Short Talk Session A** |
| **Influence of Tryptophan Biosynthesis on the Formation of Intracellular Bacterial Communities in Nontypeable *Haemophilus influenzae*** |
| Jessica Findsen, Kevin Mason’s lab |
| **Shape Shifting Bacteria: A New Therapeutic Target** |
| Tracy Prinster, Sheryl Justice’s lab |
| **Design of Macrocyclic Peptides Targeting SARS-CoV-2 Spike-ACE2 Interaction** |
| Enming Xing, Pui-Kai (Tom) Li’s lab |

**Click here to register for this session >>**
**Infectious Diseases Institute Virtual 3rd Annual Meeting**

**Thursday, April 22, 2021 | 8:30 a.m. – 6:00 p.m.**

| Trainee Short Talk Session B | The Relationship Between Hepatitis C Virus Rates and Office-Based Buprenorphine Access in Ohio  
Daniel Brook, William Miller’s lab  
Dysregulated granulocytes may increase cardiovascular diseases risk in severe COVID-19 patients and survivors  
Manuja Gunasena, Namal Liyanage’s lab  
Metagenomic Sequencing for Rapid Identification of Xylella fastidiosa Plant Diseases  
Veronica Roman, Jonathan Jacobs’ lab |

**Click here to register for this session >>**

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<table>
<thead>
<tr>
<th>1:00 – 2:00 p.m.</th>
<th>Afternoon Keynote Address</th>
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<tbody>
<tr>
<td><strong>Immune Responses to SARS-CoV-2</strong></td>
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<tr>
<td><strong>Akiko Iwasaki, PhD</strong></td>
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</tr>
</tbody>
</table>
| Waldemar Von Zedtwitz Professor of Immunobiology  
Professor of Epidemiology (Microbial Diseases)  
Professor of Molecular, Cellular, and Developmental Biology  
Yale University School of Medicine  
Investigator, Howard Hughes Medical Institute |  |
| Host: Shan-Lu Liu, MD, PhD |  |

**Click here to register for this session >>**

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<table>
<thead>
<tr>
<th>2:15 – 3:15 p.m.</th>
<th>Afternoon Breakout Sessions (select one to attend)</th>
</tr>
</thead>
</table>
| **2:00-2:30 p.m.** | **Discussion hosted & facilitated by:** Shan-Lu Liu, MD, PhD  
**with:** Akiko Iwasaki, PhD, Yale School of Medicine  
Dan Jones, MD, PhD  
Zihai Li, MD, PhD  
Eugene Oltz, PhD  
Linda Saif, PhD  
**Note:** This panel will directly follow Dr. Iwasaki’s keynote ([same zoom link](#)). Note the time difference between this panel and the other breakout session options. |

**Click here to register for this session >>**
### Infectious Disease in Context: Cross-Disciplinary Collaborations and Social Scientific Perspectives

*Discussion hosted & facilitated by:* Erin Moore, PhD  
*with:*  
Jodi Ford, PhD, RN  
Alison Norris, MD, PhD  
Barbara Piperata, PhD

Click here to register for this session >>

### Career Resilience During a Pandemic: When and How Should You Pivot Your Research Program When Something Like COVID-19 Comes Along?

*Discussion hosted & facilitated by:* John Gunn, PhD  
*with:*  
Adriana Forero, PhD  
Chan-Wang Jerry Lio, PhD  
Fernanda Novais, PhD  
Qiuhong Wang, PhD

Click here to register for this session >>

### 3:30 – 4:45 p.m. | Afternoon Short Talks (select one to attend)

**Trainee Short Talk Session C**

<table>
<thead>
<tr>
<th>Title</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sugars as Drugs: Exploiting Sugar Metabolism in Bacteria</td>
<td>Erin Connors, Brian Ahmer’s lab</td>
</tr>
<tr>
<td>Host restriction of copper serves as an intracellular environmental signal driving <em>Histoplasma</em> virulence</td>
<td>Stephanie Ray, Chad Rappleye’s lab</td>
</tr>
<tr>
<td>Development of small molecule anti-biofilm agents for the treatment of <em>Salmonella</em> gallbladder carriage</td>
<td>Jenna Sandala, John Gunn’s lab</td>
</tr>
<tr>
<td>The kinetics and pathogenic implications of <em>Staphylococcus aureus</em> synovial fluid-induced aggregation</td>
<td>Amelia Staats, Paul Stoodley’s lab</td>
</tr>
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Click here to register for this session >>
### Infectious Diseases Institute Virtual 3rd Annual Meeting

**Thursday, April 22, 2021 | 8:30 a.m. – 6:00 p.m.**

#### Trainee Short Talk Session D

<table>
<thead>
<tr>
<th>Title</th>
<th>Presenter</th>
<th>Lab/Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actin-specific ADP-ribosylating toxins differentiate among natural substrates</td>
<td>Songyu Dong, Dmitri Kudryashov’s lab</td>
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<tr>
<td>Eavesdropping on bacterial communication by <em>Salmonella</em></td>
<td>Andrew Schwieters, Brian Ahmer’s lab</td>
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<tr>
<td>Applying Dynamic Survival Analysis to the 2018-2020 Ebola Epidemic in Eastern DRC</td>
<td>Harley Vossler, Grzegorz Rempala’s lab</td>
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</tr>
<tr>
<td>Placental Lactogen Enhances Hepatitis E Virus Replication</td>
<td>Kush Kumar Yadav, Scott Kenney’s lab</td>
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[Click here to register for this session >>](#)

#### Faculty Short Talk Session B

<table>
<thead>
<tr>
<th>Title</th>
<th>Presenter</th>
<th>Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evolution to function: Using plant pathogenic bacteria to understand the basis microbial host colonization</td>
<td>Jonathan M. Jacobs, PhD</td>
<td></td>
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<tr>
<td>Establishment of SARS-CoV-2 animal models for vaccine and therapeutic testing in the Plant and Animal Agrosecurity Research Facility</td>
<td>Scott P. Kenney, PhD</td>
<td></td>
</tr>
<tr>
<td>Cardiometabolic Disease Immune Signatures in Severe COVID-19 Patients and Survivors</td>
<td>Namal Liyanage, PhD</td>
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<tr>
<td>Conformational dynamics of HIV-1 Envelope governs SHIV replication</td>
<td>Amit Sharma, PhD</td>
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<tr>
<td>Metabolic modulation of antiviral innate immunity</td>
<td>Haitao Wen, MD, PhD</td>
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</tbody>
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[Click here to register for this session >>](#)

#### 5:00 – 6:00 p.m. | Evening Discussion & Networking

**Science Communication & Infectious Disease Research Challenges: Seeking Solutions from Literature**

*Group discussion hosted & led by: Brooke Zentmeyer in conversation with Angus Fletcher, PhD*

[Learn more about this discussion here >>](#)

[Click here to register for this session >>](#)