

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 Vlasova

[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, Qihong 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:

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 >>](#)

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

Introducing the IDI Trainee Association	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! Steering Committee: 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 & Short talks by recipients of the Fall 2020 IDI Trainee Transformative Research Grant: Lauren Otto & Juan de Dios Ruiz Rosado, PhD
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[Click here to register for this session >>](#)

Faculty Short Talk Session A	Optimization of Dioxane-Linked Novel Bacterial Topoisomerase Inhibitors: Identification of a Lead with in vivo Efficacy Mark Mitton-Fry, PhD Antifungal Resistance in Humans and the Environment Melanie L. Ivey, PhD Nanopore sequencing for viral genetic and epigenetic study Sanggu Kim, PhD Glycan Mediated Host-Microbe Interactions Anastasia Vlasova, DVM, PhD
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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 <i>Haemophilus influenzae</i> 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
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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 >>](#)

1:00 – 2:00 p.m. | Afternoon Keynote Address



Immune Responses to SARS-CoV-2

Akiko Iwasaki, PhD

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 >>](#)

2:15 – 3:15 p.m. | Afternoon Breakout Sessions (select one to attend)

2:00-2:30 p.m.

Virology Discussion Panel

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 >>](#)

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Infectious Disease in Context: Cross-Disciplinary Collaborations and Social Scientific Perspectives	<i>Discussion hosted & facilitated by:</i> Erin Moore, PhD <i>with:</i> Jodi Ford, PhD, RN Alison Norris, MD, PhD Barbara Piperata, PhD
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[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?	<i>Discussion hosted & facilitated by:</i> John Gunn, PhD <i>with:</i> Adriana Forero, PhD Chan-Wang Jerry Lio, PhD Fernanda Novais, PhD Qihong Wang, PhD
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[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	Sugars as Drugs: Exploiting Sugar Metabolism in Bacteria Erin Connors, Brian Ahmer's lab Host restriction of copper serves as an intracellular environmental signal driving <i>Histoplasma</i> virulence Stephanie Ray, Chad Rappleye's lab Development of small molecule anti-biofilm agents for the treatment of <i>Salmonella</i> gallbladder carriage Jenna Sandala, John Gunn's lab The kinetics and pathogenic implications of <i>Staphylococcus aureus</i> synovial fluid-induced aggregation Amelia Staats, Paul Stoodley's lab
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Trainee Short Talk Session D	<p>Actin-specific ADP-ribosylating toxins differentiate among natural substrates Songyu Dong, Dmitri Kudryashov's lab</p> <p>Eavesdropping on bacterial communication by <i>Salmonella</i> Andrew Schwieters, Brian Ahmer's lab</p> <p>Applying Dynamic Survival Analysis to the 2018-2020 Ebola Epidemic in Eastern DRC Harley Vossler, Grzegorz Rempala's lab</p> <p>Placental Lactogen Enhances Hepatitis E Virus Replication Kush Kumar Yadav, Scott Kenney's lab</p>
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[Click here to register for this session >>](#)

Faculty Short Talk Session B	<p>Evolution to function: Using plant pathogenic bacteria to understand the basis microbial host colonization Jonathan M. Jacobs, PhD</p> <p>Establishment of SARS-CoV-2 animal models for vaccine and therapeutic testing in the Plant and Animal Agrosecurity Research Facility Scott P. Kenney, PhD</p> <p>Cardiometabolic Disease Immune Signatures in Severe COVID-19 Patients and Survivors Namal Liyanage, PhD</p> <p>Conformational dynamics of HIV-1 Envelope governs SHIV replication Amit Sharma, PhD</p> <p>Metabolic modulation of antiviral innate immunity Haitao Wen, MD, PhD</p>
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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	<p><i>Group discussion hosted & led by:</i> Brooke Zentmeyer in conversation with Angus Fletcher, PhD</p> <p>Learn more about this discussion here >></p>
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[Click here to register for this session >>](#)