

MCW Center for Microbiome Research Seminar Series 2019-2020

Seminars are Tuesdays at 11:00AM. Location is noted for each seminar.

February 25, 2020

Robert Britton, PhD

Professor, Therapeutic Microbiology Lab, Dept. of Molecular Virology & Microbiology, Baylor College of Medicine

Diet Driven Evolution of Epidemic Strains of an Enteric Pathogen in Humans and Animals

Seminar location: Briggs & Stratton Auditorium, Children's Wisconsin

March 17, 2020 - CANCELLED

Elaine Hsiao, PhD

Assistant Professor, Depts. Of Integrative Biology & Physiology; Microbiology, Immunology, & Molecular Genetics; and Medicine/Digestive Diseases, University of California, Los Angeles

Microbiome Interactions with the Nervous System in Health and Disease

Seminar location: Briggs & Stratton Auditorium, Children's Wisconsin

April 21, 2020 - CANCELLED

June Round, PhD

Associate Professor, Departments of Microbiology & Immunology, and Pathology, University of Utah

Title TBA

Seminar location: Hub for Collaborative Medicine, A1015/A1035

Please contact the Center for Microbiome Research for
additional information at biomecenter@mcw.edu



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MCW Center for Microbiome Research

Seminar Series

2019-2020

“Diet Driven Evolution of Epidemic Strains of an Enteric Pathogen in Humans and Animals”

Robert Britton, PhD

*Professor, Therapeutic Microbiology
Laboratory, Department of Molecular
Virology and Microbiology
Baylor College of Medicine*

February 25, 2020

11am – 12 noon

Brigg's & Stratton Auditorium
Children's Wisconsin



The Britton laboratory is interested in the role of microbes in health and disease, with a focus on identifying microbes with therapeutic properties for a variety of ailments. We use bacterial genetics, genomics, microbial ecology, and physiology to investigate individual microbes and microbial community structure and function. We also are interested in genes that are conserved from bacteria to humans, with a focus on GTPase proteins that control ribosomal subunit assembly.

To learn more, visit:

<https://www.bcm.edu/research/labs/robert-britton>



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2019-2020

“Microbiome Interactions with the Nervous System in Health and Disease”

Elaine Hsiao, PhD

*Assistant Professor, Depts. of Integrative Biology & Physiology; Microbiology, Immunology & Molecular Genetics; and Medicine/Digestive Diseases
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**Brigg's & Stratton Auditorium
Children's Wisconsin**



Microbes modulate host levels of neuroactive molecules, including neurotransmitters and neuropeptides, as well as complex behaviors, such as social, communicative, emotional and anxiety-like behaviors. Alterations in the microbial communities that inhabit us are further implicated in a variety of neurological disorders, including autism, depression and Parkinson's disease.

Situated at the interface of neurobiology, immunology and microbiology, we are using integrative systems approaches to study fundamental questions in biology.

To learn more, visit Dr. Hsiao's research website:

<https://hsiao.science/>

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Seminar Series

2019-2020

“Title TBA”

June Round, PhD

*Associate Professor, Departments of
Pathology and Microbiology &
Immunology
University of Utah*

April 21, 2020

CANCELLED

HUB A1015/1035



The mammalian immune system is charged with the task of recognizing microbial molecules and subsequently coordinating pathogen clearance. However, humans are host to a multitude of symbiotic microorganisms called the microbiota. Since both pathogenic and commensal microorganisms share similar molecular patterns, it remains unclear how host immune responses toward symbiotic bacteria are prevented. Understanding the mechanisms by which the host tolerates the microbiota and in turn how the microbiota influences the host immune system is paramount toward gaining a deeper understanding of mucosal biology and developing therapies for the treatment of intestinal disease.

To learn more, visit:

<http://labs.path.utah.edu/round/index.htm>

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