

Joint Retreat
University of Wisconsin-Madison “Metabolism and Nutrition” T32
and
The University of Chicago “Digestive Health and Diseases” T32
HF DeLuca Biochemical Sciences Building
440 Henry Mall Rm 1211
University of Wisconsin – Madison
November 1-2, 2024

Day 1: Friday

- 11:30 Lunch for registrants. (*Conference room 2321*)
- 12-12:15 Retreat Welcome (Rick Eisenstein, PhD and Eugene Chang, MD)
Trainee/Trainer Introduction (*Auditorium 1211*)
- 12:15 **“Biological Premises and Challenges in Achieving Precision Nutrition”**
Patrick Stover PhD
Director of the Institute for Advancing Health through Agriculture
Prof. of Nutrition and of Biochemistry and Biophysics
Texas A & M University
- 1:15 Trainer Research Talk 1
“Regulation of energy expenditure by plasma lipid signaling”
Judi Simcox PhD
Asst. Prof. of Biochemistry, UW-Madison
- 2:00 Break – Coffee and snacks for registrants.
- 2:15 Trainee oral research presentations (30 minutes each including questions)
"Differential effects of small and large bowel microbiota may be driven by their ability to modulate intestinal stem cell identity"
Orlando (Landon) DeLeon PhD, Chang lab (chalk talk).
“Investigating a novel “molecular squirreling away” mechanism of resource competition in the gut microbiome”
Joyce Ghali, Molecular Metabolism and Nutrition Graduate Program, Light and Mimee labs.
“Using Machine Learning to Predict Clinically Significant Weight Gain in Adults.”
Kate Lauer MD (Resident MD in Surgery, UW-Madison), Funk lab.
“Diet-Microbe-Host Interactions in Metabolic Liver Disease”
Jake Hermanson, Nutrition and Metabolism Graduate Program, Leone lab.
- 4:15 **“Public Engagement in Science: Approaches, Policy and Career Opportunities”**
Jo Handelsman PhD
Director, Wisconsin Institute for Discovery
Professor of Plant Pathology
- 4:45 Panel and Audience Discussion with:
Jenny Luray
Senior Vice President of Strategy and Public Engagement
Research America!
https://www.researchamerica.org/board_and_leadership/jenny-luray/
Elizabeth Stulberg PhD
Principal, Lewis Burke and Associates
(<https://lewis-burke.com/experts/elizabeth-stulberg/>)

5:45 Reception/Social hour - Steenbocks on Orchard in the Wisconsin Institutes of Discovery (for registrants)

7:00-9:00 Dinner and Keynote 2- Steenbock's on Orchard (for registrants) (330 N Orchard St)

"Your Research Journey: Insights from an Undaunted Traveler"

Richard B. Weinberg, MD
Professor of Internal Medicine (Gastroenterology) and Integrative Physiology & Pharmacology
Wake Forest University School of Medicine

Saturday

7:30 Continental Breakfast (for registrants) and Poster Set-Up

8:00 Goals for the Day and Housekeeping (Auditorium 1211)

8:10 Trainer Research Talk 2

"Eating for two: How diet shapes gut microbiome configuration and metabolic output"

Alice Cheng MD, PhD
Asst. Prof. of Medicine
University of Chicago

8:55 Trainee Poster session (Atrium)

10:30 **"Communicating science in an age of AI, pandemics, and polarized politics"**

Dietram Scheufele PhD
Professor and Taylor-Bascom Chair of Life Sciences Communication
UW Madison

11:00 Audience Discussion

11:45 Lunch for registrants.

12:15 Trainee research talks (30 minutes each including questions)

"Quorum sensing in the gut Bacteroidales."

Nolan Kennedy, PhD, Comstock lab

"Exploring the functional and genomic dynamics governing host-microbe mutualism throughout the intestinal tract"

JJ Colgan, Molecular Metabolism and Nutrition graduate program, Chang lab.

Cobalamin metabolism in adipocyte differentiation: *Mmadhc* as a genetic modifier of *Pparg*

Beth Poad, Nutrition and Metabolism graduate program, Parks lab.

"TPN infusion timing impacts hepatic lipid metabolism in mice"

Nate Willis PhD., Postdoctoral Fellow Pierre Lab

2:15 Brief discussion: Retreat conclusion and future directions