

# DIABETES AND METABOLISM SEMINAR SERIES

## MIND OVER MATTER: CNS CONTRIBUTIONS TO NUTRITION AND OBESITY

Thursday, April 8, 2021

8:00am – 12:40pm PST (Virtual Session)

Registration <https://redcap.link/d61uobqe>

### FINAL PROGRAM

#### Session 1: Neurons' Nearest Neighbors - Glia and ECM in Metabolism

8:00 am Welcome – **Josh Thaler, M.D., Ph.D.**

8:10 am **Oligodendrocyte plasticity mediates nutrient-dependant structural changes in the median eminence necessary for the control of energy homeostasis**

**Clemence Blouet, PhD**

MRC Metabolic Diseases Unit, University of Cambridge, Cambridge, UK

8:30 am **Hypothalamic perineuronal net regulation of energy and glucose homeostasis**

**Kimberly Alonge, PhD**

University of Washington, Seattle, WA

8:50 am **Toward a link between brain plasticity and satiety**

**Alexandre Benani, PhD**

CNRS, University of Bourgogne, Dijon, France

9:10 am **The metabolic impact of microglial activation**

**Joshua Thaler, MD, PhD**

University of Washington, Seattle, WA

9:30 am **Q&A**

9:50 am **Break**

#### Session 2: Thought for Food or Food for Thought - Human Imaging and Feeding Behavior

10:00 am **Modulation of striatal circuits by central insulin action**

**Stephanie Kullmann, PhD**

Helmholz Center Munich, University of Tübingen, Tübingen, Germany

10:20 am **High-fat diet affects reward learning and preference formation**

**Marc Tittgemeyer, PhD**

Max Planck Institute for Metabolism Research, University of Cologne, Cologne, Germany

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10:40 am **Hypothalamic gliosis in obesity and type 2 diabetes mellitus: Translational evidence and implications**  
**Ellen Schur, MD, MS**  
University of Washington, Seattle, WA

11:00 am **Q&A**

11:15 am **Break**

### **Session 3: What My Gut Tells Me - Gut-brain Interactions Regulating Food Intake**

11:25 am **Wireless optogenetic control of gut sensory systems**  
**Carlos Campos, PhD**  
University of Washington, Seattle, WA

11:45 am **Asymmetrical gut-brain circuits differentially control feeding behavior**  
**Guillaume de Lartigue, PhD**  
University of Florida, Gainesville, FL

12:05 pm **Gut-hypothalamic pathways underlying feeding behavior**  
**Amber Alhadeff, PhD**  
Monell Chemical Senses Center, University of Pennsylvania, Philadelphia, PA

12:25 pm **Q&A**

12:40 pm **WRAP UP**