<table>
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<th>Time</th>
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| 8:00 am    | SESSION 1: DIET, INTESTINAL MICROBIOTA, AND METABOLISM  
Moderated by Gary D. Wu, MD |
| 8:00 am – 8:05 am | Opening Remarks                                                        |
| 8:05 am – 8:25 am | The microbiome and host metabolic function  
Christoph A. Thaiss, PhD, Assistant Professor of Microbiology, Penn Institute for Immunology, University of Pennsylvania |
| 8:25 am – 8:45 am | Metals, metabolites, and the microbiota: the role of nutrients in Clostridioides difficile infection  
Joseph P. Zackular, PhD, Assistant Professor of Pathology and Laboratory Medicine, Assistant Professor of Microbiology, University of Pennsylvania |
| 8:45 am – 9:05 am | Metabolite control of intestinal epithelial cell function  
Maayan Levy, PhD, Assistant Professor of Microbiology, University of Pennsylvania |
| 9:05 am    | SESSION 2: THE LIVER AND METABOLISM (PART 1)  
Moderated by Kirk J. Wangensteen, MD, PhD |
| 9:05 am – 9:25 am | Perilipin lipid droplet proteins and fatty liver  
Rotonya M. Carr, MD, Assistant Professor of Medicine, Division of Gastroenterology, University of Pennsylvania |
| 9:25 am – 9:45 am | Regulation of Liver Lipid Metabolism by mTORC1  
Paul M. Titchenell, PhD, Assistant Professor of Physiology, Institute for Diabetes, Obesity, and Metabolism, University of Pennsylvania |
| 9:45 am – 10:00 am | BREAK |
| 10:00 am – 10:30 am | NASH/Microbiome connection  
Taylor Cohen, PhD, Division of Infectious Disease, AstraZeneca |
| 10:30 am   | SESSION 3: THE INTESTINAL EPITHELium AND METABOLISM  
Moderated by Jonathan P. Katz, MD |
| 10:30 am – 10:50 am | RNA metabolism and regeneration of the intestinal epithelium  
Kathryn E. Hamilton, PhD, Assistant Professor for Pediatrics, Division of Gastroenterology, Liver and Nutrition, Children’s Hospital of Philadelphia |
10:50 am – 11:10 am  Intestinal NAD metabolism  
*Joseph A. Baur, PhD, Associate Professor of Physiology, University of Pennsylvania*

11:10 am – 11:30 am  Control of intestinal renewal by region-specific metabolism  
*Patrick Seale, PhD, Associate Professor of Cell and Developmental Biology, Institute for Diabetes, Obesity and Metabolism, University of Pennsylvania*

11:30 am  
**SESSION 4: TRAINEE POSTER SHORTS (10 TALKS, 1 MINUTE EACH)**  
Moderated by Rebecca G. Wells, MD

11:50 am – 1:00 pm  LUNCH

12:15 pm – 12:50 pm  
**POSTER SESSION**  
Break Out Room 1: [https://bluejeans.com/262357557](https://bluejeans.com/262357557)  
Break Out Room 2: [https://bluejeans.com/714992325](https://bluejeans.com/714992325)  
Break Out Room 3: [https://bluejeans.com/490123374](https://bluejeans.com/490123374)

1:00pm  
**SESSION 5: CORE FACILITES FOR STUDY OF METABOLISM**  
Moderated by Kathryn E. Hamilton, PhD

1:00 pm – 1:10 pm  Penn Metabolomics Core  
*Chris Petucci PhD, Director, Metabolomics Core, Penn Cardiovascular Institute, University of Pennsylvania*

1:10 pm – 1:20 pm  Rodent Metabolic Phenotyping Core  
*Jennifer Rojas, PhD, Technical Director, Rodent Metabolic Phenotyping Core, Institute for Diabetes, Obesity and Metabolism, University of Pennsylvania*

1:20 pm – 1:30 pm  PenNSAM Nutrition Analytic Core  
*Gary D. Wu, MD, Ferdinand G. Weisbrod Professor in Gastroenterology, Co-Director, Center for Molecular Studies in Digestive and Liver Diseases, Division of Gastroenterology, University of Pennsylvania*

1:30 pm  
**SESSION 6: THE LIVER AND METABOLISM (PART 2)**  
Moderated by Klaus Kaestner, PhD  
*Poster session winners will be announced*

1:30 pm – 1:50 pm  Circadian rhythm, diet, and the transcriptional regulation of liver metabolism  
*Mitchell A. Lazar, MD, PhD, Willard and Rhoda Ware Professor in Diabetes and Metabolic Diseases, Director, Institute for Obesity, Diabetes & Metabolism, University of Pennsylvania*

1:50 pm – 2:20 pm  Regulation of the inflammatory responses in alcoholic hepatitis  
*Gyongyi Szabo, MD, PhD, Chief Academic Officer, Professor of Medicine, Beth Israel Deaconess Medical Center, Harvard Medical School*