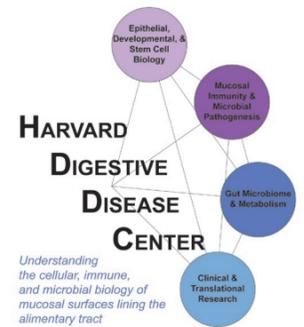
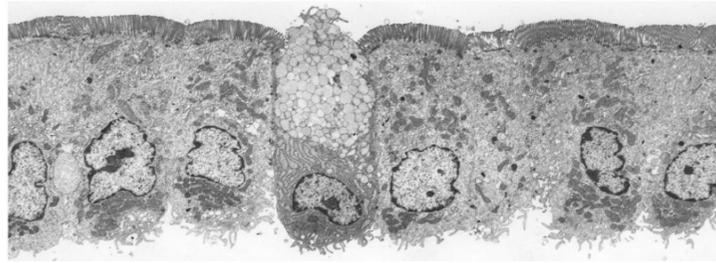


Frontiers in Microbiota Interactions

Microbiota Metabolic Contributions to Host Physiology

Zoom Webinar ID: 984 3216 9311
Passcode: 979200
Link:
<https://bostonchildrens.zoom.us/j/98432169311?pwd=90lIZBL3BU1zaNuNabXlHU7wbixekI.1>



FRIDAY, JANUARY 16, 2026

Enders Folkman Auditorium, Boston Children's Hospital

8:45 AM Welcome (8:15 AM Coffee)

Session 1: Gut Microbiota, Metabolism, and Host Effects

- 9:00** Lynn Bry, MD, PhD (Harvard Medical School and Brigham and Women's Hospital)
"Uncovering the Metabolic Secrets of Anaerobes"
- 9:30** Rachel Carmody, PhD (Harvard University)
"Nutritional Implications of Diet-Microbiome-Metabolism Interactions"
- 10:00** Jason Zhang, MD, PhD (Harvard Medical School and Boston Children's Hospital)
"Microbial Activation of the Enteroendocrine System"

10:30-10:45 AM Coffee Break

Session 2: Spatial and Temporal Dynamics of the Gut Microbiota

- 10:45** Georg Gerber, MD, PhD (Harvard Medical School and Brigham and Women's Hospital)
"AI and Machine Learning for Analyzing Microbiome Temporal and Spatial Dynamics"
- 11:15** Sizun Jiang, PhD (Harvard Medical School and Beth Israel Deaconess Medical Center)
"Measuring Everything Everywhere At Once: Do We Really Need It?"
- 11:45** Jeffrey Moffitt, PhD (Harvard Medical School and Boston Children's Hospital)
"Imaging the Microbe-Host Interface with Genomic-Scale Microscopy"

12:15 - 1:15 PM Lunch Break (Registration Required)

Session 3: Immune-Modulation by the Gut Microbiota

- 1:15** Kazuki Nagashima, MD, PhD (Harvard University)
"High Resolution View of Immune Modulation by the Gut Microbiome and Diet"
- 1:45** Marco Jost, PhD (Harvard Medical School)
"Systematic Discovery of Novel Bioactivities of Microbiota-Derived Small Molecules"

2:15-2:30 PM Coffee Break

Session 4: Microbiota Bootcamp: Methodology of Metabolomics, Spatial Temporal Analysis, and Model Systems

- 2:30** Sloan Devlin, PhD (Harvard Medical School)
"Opportunities and Pitfalls of Metabolomics for Microbiome Research"
- 3:00** Leo Cheng, PhD (Corewell Health Research Institute)
"On the Study of Real-Time Cellular Metabolomic Dynamics of Live-Cells with NMR"
- 3:30** Travis Gibson, PhD (Harvard Medical School and Brigham and Women's Hospital)
"A Primer on Time Series, Dynamical Systems, and Uncertainty Quantification for Microbiome Studies"
- 4:00 Panel Discussion**

*Scientific Hosts: Lynn Bry, MD, PhD & Georg Gerber, MD, PhD
HDDC Directors: Wayne Lencer, MD & Richard Blumberg, MD*