

A symposium celebrating
the careers of alumni from
the lab of Jeffrey Gordon, MD

Washington University School of Medicine
Edison Family Center for Genome Sciences & Systems Biology

Eras of the microbiome



Thursday, April 25

MORNING

8:00 am – OPENING COMMENTS

David H. Perlmutter, MD – Dean and Executive
Vice Chancellor for Medical Affairs

Organizers – Brian Muegge, Peter Turnbaugh,
Meng Wu

8:15 am – SESSION 1

Exploring gut microbial
ecology and function

How human is the human microbiome

Ruth Ley Max Planck Institute for Biology

Saying BHB-ye bye to autoimmunity

Peter Turnbaugh University of California,
San Francisco

Microbial contributions to digestive health - perspectives from your inner fish

John F. Rawls Duke University

10:15 am – SESSION 2

Gnotobiotic models,
mechanisms and translation

Uncovering the metabolic secrets of anaerobes for therapeutic applications

Lynn Bry Harvard University

Regulation of metabolism and immunity by the microbiome

Lora Hooper University of Texas, Southwestern

From identification of a microbially produced metabolite to development of a potential novel treatment modality

Fredrik Bäckhed University of Gothenburg

Eric P. Newman Education Center (EPNEC)

AFTERNOON

1:00 pm – SESSION 3

Bacteroides as model symbionts
and a paradise for glycobiologists

Studying gut bacterial dietary habits: Getting into a sticky situation

Justin Sonnenburg Stanford University

Mucus-degrading human gut bacteria in inflammatory bowel disease

Eric Martens University of Michigan

Microbiome dynamics during infection

Andy Goodman Yale University

Recent insights into carbohydrate-active enzymes of the microbiome

Bernard Henrissat Technical University of Denmark

3:15 pm – SESSION 4

The microbiome, global health
& interdisciplinary science

Going farther, together: Views on a Global Partnership

Tahmeed Ahmed International Centre for
Diarrhoeal Disease Research, Bangladesh (icddr,b)

Catalyzing change: Collaborative efforts to improve infant health through microbiome and undernutrition solutions

Vanessa Ridaura The Bill & Melinda Gates Foundation

How listeria outsmarts its host

Marc Lecuit Institut Pasteur

Statistical design of functional microbiomes

Arjun Raman University of Chicago

4:45 pm – REFLECTION

Caroline Ash Senior Editor, *Science*

Jeffrey Gordon WashU Medicine

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Friday, April 26 Moore Auditorium

MORNING

8:00 am – SESSION 5
Characterizing microbes in
diverse habitats

**RACS-Seq and FlowRACS: Developing
instruments for mapping microbiome
@ single-cell resolution**

Jian Xu Qingdao Institute of Bioenergy and
Bioprocess Technology

**Microbe-microbe interactions at nutrient
depots in the gut**

Michael Patnode University of California, Santa Cruz

**Modeling intestinal eukaryotic microbes in
mice and microfluidic devices**

Laura Knoll University of Wisconsin

**Tripartite interactions among the microbiota,
stromal cells and the immune system**

Meng Wu WashU Medicine

10:00 am – SESSION 6
Metabolism!

**Gut bacterial metabolism and
cardiometabolic disease**

Federico Rey University of Wisconsin

**Protective interorgan, intercellular, and inter-
compartmental metabolite shuttles in obesity**

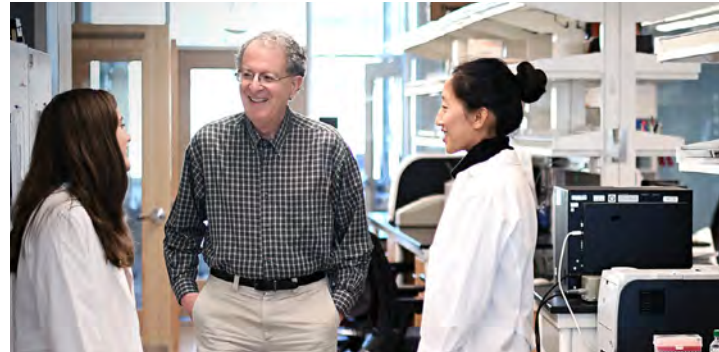
Peter Crawford University of Minnesota

**Mining the edible plant microbiome to
develop medical foods for managing post-
menopausal bone loss and rheumatoid arthritis**

Mark Charbonneau Solarea Bio

**Transcriptional and epigenetic control of
intestinal metabolism**

Brian Muegge WashU Medicine



AFTERNOON

1:30 pm – SESSION 7
Career trajectories

ROUNDTABLE DISCUSSION

**The many paths to becoming a
cancer biologist**

Michelle Hermiston University of California,
San Francisco

Neel Dey Fred Hutchinson Cancer Center

Marios Giannakis Dana Farber Cancer Institute

Advancing microbiome sciences in LMICs

Alejandro Reyes Universidad de los Andes, Colombia

**From protein N-myristoylation to the enteric
nervous system**

Robert Heuckeroth Children's Hospital of Pennsylvania

3:15 pm – CLOSING REMARKS

Jeffrey Gordon WashU Medicine



Symposium Information & Registration
sites.wustl.edu/genomesciences/symposium



Washington University in St. Louis
SCHOOL OF MEDICINE