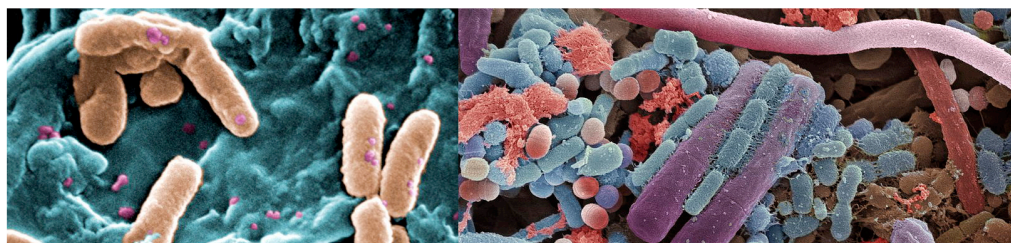


Microbes, Genes and Metabolites

Register online at: <http://tinyurl.com/HostMicrobiome>



November 30th, 8.30AM - 4.30PM

Rotunda, Joseph P. Martin Conference Center

77 Louis Paster Ave, Harvard Medical School, Boston MA

FIMI features the work of area young investigators evaluating host-microbiome interactions in health and disease

Free and open to the public; registration information below.

Lunch will be available for registered attendees.

Schedule

8:00-8:30AM: Registration, Breakfast, Intro

12.15-1PM LUNCH

Microbes, Genes and Metabolites

8.30-9AM Microbial genes that alter host metabolism
Sloan Devlin, HMS

9-9.30AM Performance enhancing bugs.
Alex Kostic, Joslin Diabetes Center

9.30-10AM Effects of maternal gut bacteria on neurodevelopmental disorders. Jun Huh, HMS

10-10.30AM Microbes and microbial products that influence early-life thymic T cell development.
Nitya Jain, MGH

10.30-10:45: BREAK

New directions in *C. difficile* disease

10.45-11.15 A novel wnt signalling inhibitor based on *C. difficile* toxin B. Min Dong, Boston Children's Hospital

11.15-11.45 Mechanisms for recurrent *C. difficile* infections across patient populations.
Jessica Allegretti, BWH

11.45-12.15 Genomic origins and clinical risks of asymptomatic *C. difficile* carriage
Jay Worley, BWH

Machine Learning Approaches

1-1.30PM Towards rational bacteriotherapy design with machine learning models
Travis Gibson, BWH

1:30-2PM Computational optimization of Treg-inducing live bacteriotherapeutics
Vanni Bucci, UMass Dartmouth

2-2.30PM Carnelian: enhanced functional profiling of whole genome metagenomics
Sumaiya Nazeen, MIT

2:30-2:45 BREAK

2:45-4.30PM Microbiota Boot Camp: Host-Microbiome Systems a HOWTO

Lynn Bry, BWH, Functional systems to drive microbiota-based clinical applications.

Alex Banks, BIDMC, Measuring metabolic effects of the microbiome on energy balance

Georg Gerber, BWH, Predicting the microbiome and predicting the microbiome over time.

Organizers: Lynn Bry, Georg Gerber, Massachusetts Host-Microbiome Center

Free registration at <http://tinyurl.com/HostMicrobiome> or email ssljivo@partners.org

To learn more, please visit: <http://www.host-microbiome.org/>