Mid-Atlantic Microbiome Meet-up
Predictions and the Microbiome

Wednesday January 9th 2019
Johns Hopkins University,
Homewood Campus, Mudd Hall, Baltimore

8:00 Registration and Continental Breakfast (Mudd Hall Atrium)

9:00 Kick-off: Welcome to M³ (Mudd Hall Auditorium, room 26)
Jocelyne DiRuggiero

9:15 M3 Keynote speaker
“TBD”
Alvaro Sanchez
Ecology and Evolutionary Biology and Microbial Sciences Institute
Yale University

10:00 Session 1: Human-associated microbiome and computational methods
Chair: David Mintz

10:00 “Gut microbiota, inflammation, and host immunity: how the consequences of an immunological ménage-à-trois determine organ transplant outcomes”
Emmanuel Mongodin
University of Maryland School of Medicine, Institute For Genome Sciences

10:20 “Characterizing gut microbiota associated with childhood diarrhea in the developing world”
Jacquelyn Meisel
Center for Bioinformatics and Computational Biology, University of Maryland

10:40 Coffee break

11:00 “Multiple Instance Learning (MIL) based phenotype prediction from microbiome”
Mohammad Arifur Rahman
George Masson University
11:20 “Consistent and comprehensible bias in metagenomic sequencing experiments”  
*Michael McLaren*  
North Carolina State University

11:40 **M3 invited speaker**  
“TBD”  
*Joseph Zackular*  
Children’s Hospital of Philadelphia  
University of Pennsylvania

12:30 **Lunch** (Mudd Hall Atrium)

1:00 **Poster session**

2:00 **Session 2: Model systems**  
Chair: *Winston Timp*

2:00 “Fungal disease and temperature alter skin microbiome assembly in an experimental salamander system”  
*Carly Muletz Wolz*  
Smithsonian National Zoological Park and Conservation Biology Institute

2:20 “Gut microbiome alterations in Marmoset Wasting Syndrome”  
*Rachel Cooper*  
Johns Hopkins University

2:40 “Understanding viral impacts on microbial communities: phage host range and host susceptibility in the Chesapeake Bay”  
*Eric Sakowski*  
Johns Hopkins University

3:00 **Breakout sessions "Predictions and the Microbiome"**

3:40 Breakout report (Mudd Hall Auditorium, room 26)

4:00 **Coffee Break**

4:20 **Session 3: Unique environments and metabolisms**  
Chair: *Maya Gomes*

4:20 “Metagenomic and metatranscriptomic analysis of an electrotrophic/electrogenic microbiome”  
*Rebecca Mickol*  
US Naval Research Laboratory
4:40  “Sulfide induced dissimilatory nitrite reduction to ammonia in a membrane aerated biofilm reactor”
Jeseth Delgado Vela
Howard University

5:00  “Resilience and adaptation mechanisms of an extremophile microbial community after a catastrophic climate event”
Gherman Uritskiy
Johns Hopkins University

5:20  M3 closing remarks
Sarah Preheim

5:30  Reception (Mudd Hall Atrium)

The 2019 M³ Meet-up is sponsored by the Krieger School of Art and Science and the Biology Department of Johns Hopkins University, and by CosmosID