



MONDAY, NOVEMBER 4

7:30am - 8:20am	Registration and Breakfast
8:20am - 8:30am	Opening Remarks (Simmons Auditorium) Luisa Hiller, PhD <i>Carnegie Mellon University</i> Michael Morowitz, MD <i>University of Pittsburgh</i>
8:30am - 9:10am	Keynote: Gut Microbiota and Atherosclerosis Stanley Hazen, MD, PhD <i>Cleveland Clinic</i>
9:10am - 9:30am	Rapid Fire Presentations A Cardiovascular Disease-linked Gut-microbial Metabolite Phenylacetylglutamine (Pagln) Acts via Adrenergic Receptors (Adrs) Prasenjit Saha, PhD <i>Cleveland Clinic</i> Paired Sinus Microbiome and Pseudomonas Aeruginosa Whole Genome Sequencing Reflects a Competition for Space and Resources During Cystic Fibrosis Chronic Rhinosinusitis Catherine Armbruster, PhD <i>University of Pittsburgh</i> Gut Microbiota and Liver Disease Marlies Meisel, PhD <i>University of Pittsburgh</i> Microbial Metabolite Signaling is Required for Systemic Iron Homeostasis Nupur Das, PhD <i>University of Michigan</i>
9:30am - 9:50am	Break
9:50am - 12:10pm	Session 1: Microbiome in Heart and Lung Disorders Moderators: Alison Morris, MD, MS <i>University of Pittsburgh</i> Vaughn Cooper, PhD <i>University of Pittsburgh</i> John McGinnis, MD <i>University of Pennsylvania</i>
9:50 - 10:10	Gut Microbiome and Cholesterol Metabolism Jonathan Mark Brown, PhD <i>Cleveland Clinic</i>
10:10 - 10:30	Gut Microbiome and Hypertension Jennifer Pluznick, PhD <i>Johns Hopkins University</i>
10:30 - 10:50	Polymicrobial interactions in Cystic Fibrosis Jennifer Bomberger, PhD <i>University of Pittsburgh</i>
10:50 - 11:10	Pneumococcal Signaling Luisa Hiller, PhD <i>Carnegie Mellon University</i>
11:10 - 11:30	The Lung Microbiome in Critical Illness

Georgios Kitsios, MD, PhD *University of Pittsburgh*

11:30 – 11:50	Antimicrobial Delivery with Perfluorocarbon Emulsions Keith Cook, PhD <i>Carnegie Mellon University</i>
11:50 - 12:10	Panel Q&A
12:10pm - 1:10pm	Lunch
1:10pm - 1:50pm	Keynote: Otitis Media and Microbial Biofilms Lauren Bakaletz, PhD <i>Ohio State University</i>
1:50pm - 2:10pm	Rapid Fire Presentations Developing and Applying Microdroplet Co-Cultivation Technology for Elucidating Bacterial Interspecies Interactions in the Human Vaginal Microbiome Corine Jackman, BS <i>University of Michigan</i> Human Corynebacterium Isolates Colonize Ocular Mucosal Tissue and Influence Local Immunity Benjamin Treat, PhD <i>University of Pittsburgh</i> Cutibacterium Acnes Antibiotic Production Shapes Niche Competition in the Human Skin Microbiome Jan Claesen, PhD <i>Cleveland Clinic</i>
2:10pm - 2:30pm	Break and Poster Viewing (PNC Rooms)
2:30pm - 3:20pm	Moderated Poster Discussion (PNC Rooms)
3:20pm - 3:40pm	Break
3:40pm - 5:40pm	Session 2: Microbiome, Nutrition, and Human Performance (Department of Defense Focus Session) <i>Moderators:</i> Warren Ruder, PhD <i>University of Pittsburgh</i> J. Philip Karl, PhD <i>US Army Research Institute of Environmental Medicine</i>
3:40 – 4:00	Investigating the Role of the Intestinal Microbiome in Deployment-Associated Diarrhea Blake Stamps, PhD <i>Air Force Research Laboratory</i>
4:00 – 4:20	Military Stressors, Diet and the Gut Microbiome J. Philip Karl, PhD <i>US Army Research Institute of Environmental Medicine</i>
4:20 – 4:40	Designing Synthetic Microbial Consortia with Defined Social Interactions Ting Lu, PhD <i>University of Illinois Urbana - Champaign</i>
4:40 – 5:00	Performance Enhancing Microbes in Elite Athletes Theodore A Chavkin, BS <i>Harvard Medical School</i>
5:00 – 5:20	Probiotics, An Alternative to Mitigate the Effects of Operational Stress? Kim Beals, PhD, RD, CSSD, LDN <i>University of Pittsburgh</i>
5:20 – 5:40	Panel Q&A
5:40pm - 6:00pm	Break and Transportation to Reception
6:00pm - 8:00pm	Evening Reception, Carnegie Museum of Natural History

TUESDAY, NOVEMBER 5

7.30am - 8.20am	Registration and Breakfast
8:20am - 9:30am	Session 3: Mother and Infant Microbial Cross-Talk <i>Moderators:</i> Dennis Simon, MD <i>University of Pittsburgh</i> Michael Morowitz, MD <i>University of Pittsburgh</i>
8:20 - 8:40	Human Milk and Gut Microbiome Diana Taft, PhD <i>University of California, Davis</i>
8:40 - 9:00	Maternal IgA, Microbiota and Necrotizing Enterocolitis Kathyayini Gopalakrishna, MBBS, <i>University of Pittsburgh</i>
9:00 - 9:20	Enteroviral Infections and Gut Mucosal Immunity Carolyn Coyne, PhD <i>University of Pittsburgh</i>
9:20 - 9:30	Panel Q&A
9:30am - 9:50am	Rapid Fire Presentations Plant Based Nutrition Decreases Severity and Duration of Antibiotic Induced Gut Dysbiosis in Mice Rafael Ramos-Jimenez, MD <i>University of Pittsburgh</i> Altered Intestinal Microbiome Induced by Inflammatory Bowel Disease is Sufficient to Render Mice

	<p>Susceptible to <i>Clostridioides Difficile</i> Colonization Lisa Abernathy Close, PhD <i>University of Michigan</i></p> <p>Microbial Dysbiosis Drives Elevated Serum IL-18 and Intestinal Epithelial Major Histocompatibility Class II Expression in Immunodeficient Mice Lauren Van Der Kraak, PhD <i>University of Pittsburgh</i></p> <p>Evolutionary dynamics of vancomycin-resistant <i>Enterococcus faecium</i> during gastrointestinal tract colonization and bloodstream infection in pediatric patients Daria Van Tyne, PhD <i>University of Pittsburgh</i></p>
9:50am – 10:00am	Break
10:00am - 11:50am	<p>Session 4: Gut Microbiome in Health and Disease Moderators: Bryan McVerry, MD <i>University of Pittsburgh</i> Stacy Wendell, PhD <i>University of Pittsburgh</i></p>
10:00 - 10:20	<p>Vitamin D regulation of the microbiota, Regulatory T cells and gastrointestinal homeostasis Margherita Cantorna, PhD <i>Pennsylvania State University</i></p>
10:20 - 10:40	<p>Relationship Between the Intestinal Microbiome and Risk of Hospital-acquired Infection David B Haslam, MD <i>University of Cincinnati</i></p>
10:40 - 11:00	<p>Interplay Between Dietary Fiber and Gut Microbiota in Liver Cancer: The Dark Side of Fermentation. Matam Vijay-Kumar, PhD <i>University of Toledo</i></p>
11:00 - 11:20	<p>Gut Microbiome and Environmental Enteropathy Timothy Hand, PhD <i>University of Pittsburgh</i></p>
11:20 - 11:40	<p>The biofilm inhibiting protein gastrophilin-1 protects against inflammatory bowel disease David Boone, PhD <i>Indiana University</i></p>
11:40 - 11:50	Panel Q&A
11:50am - 12:30pm	Break – Preparation for Lunch
12:30pm - 1:10pm	<p>Lunch and Keynote: Epigenomic regulation of the gut microbiota relationship during health and disease Theresa Alenghat, VMD, PhD <i>University of Cincinnati</i></p>
1:10pm - 3:00pm	<p>Session 5: Beyond the Bacteriome: Fungi and Viruses Moderators: Barbara Methé, PhD <i>University of Pittsburgh</i> Daria Van Tyne, PhD <i>University of Pittsburgh</i></p>
1:10 - 1:30	<p>Bacteriome-Mycobiome Interactions: A Model for Promoting Human Health and Combating Disease Mahmoud Ghannoum, PhD <i>Case Western Reserve University</i></p>
1:30 - 1:50	<p>Exploiting Mycobacteriophages for TB Treatment Graham Hatfull, PhD <i>University of Pittsburgh</i></p>
1:50 - 2:10	<p>Host Fatty Acid Metabolism Modifies <i>Toxoplasma</i> Differentiation Bruno Martorelli Di Genova, PhD <i>University of Wisconsin</i></p>
2:10 - 2:30	<p>Gut Mycobiota and Inflammation Illyan Iliev, PhD <i>Weill Cornell Medical College</i></p>
2:30 - 2:50	<p>Symbiotic interactions among the core microbes of the scalp Wook Kim, PhD <i>Duquesne University</i></p>
2:50 - 3:00	Panel Q&A
3:00pm - 3:20pm	<p>Poster Presentation Awards and Closing Remarks Luisa Hiller, PhD <i>Carnegie Mellon University</i> Michael Morowitz, MD <i>University of Pittsburgh</i></p>