

Number	Presenter [*=changes since program printing]	Day
1	Simerdeep Kaur, Purdue University Nucleic acid detection of live pathogens	Monday
2	Laurie Spencer, Northern Illinois University Molecular Characterization of Intestinal Microbiome in Wild Bison	Tuesday
3	Tianming Yao, Purdue University * Different Arabinoxylan Side Chain Branch Density Mixtures Select Dominant Bifidobacterium or Bacteroides in Human Fecal Microbiota	Monday
4	Apollo Stacy, Cleveland Clinic Impact of the metabolite nitrate on oral health and disease	Tuesday
5	Wily Sic, Purdue University Fungal microbiome associated with tar spot of corn (Phyllachora maydis) over time in Indiana	Monday
6	Yuxin Wang, Purdue University The interaction between microbiome metabolites and the colon epithelial barrier in vitro	Tuesday
7	Tessa Cannon (Wilde), The Ohio State University Insights into SIV from Sooty Mangabey Saliva and Gut Microbes	Monday
8	Benjamin Levine, University of Illinois at Urbana-Champaign Prebiotic dietary fiber consumption confers resilience to psychological stress and intestinal dysmotility	Tuesday
9	Anthony Yannarell, University of Illinois at Urbana-Champaign Engines for rapid adaptation: symbiont evolution facilitates host tolerance to stress	Monday
10	Zachary Lewis, The Ohio State University Optimizing DNA extraction and host depletion for shotgun metagenomics of high-host low- microbial biomass urine samples.	Tuesday
11	Thaisa Cantu-Jungles, Purdue University Synergistic potential of fiber mixtures to support gut microbiota structure and short-chain fatty acid production	Monday
12	Blake Williams, University of Illinois Chicago The Role of Sex in the Gut Microbiota-Fetal Axis during Pregnancy	Tuesday
13	Adam Quinn, Purdue University Effects of Cereal Brans on Gut Microbiome Structure and Function	Monday
14	Andrei Badilla-Aguilar, University of Notre Dame * Transport and fate of manure-borne antibiotic resistance genes in flowing water	Tuesday
15	Apekshya Chhetri, Purdue University Diet quality impacts circulating tryptophan metabolites and the diversity of tryptophanase- harboring bacteria	Monday



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16	Frederico Barros, Purdue University Influence of Sorghum Phenolic Compounds and Dietary Fibers on Short-Chain Fatty Acid Production	Tuesday
17	Ashley Kayabasi, Purdue University Rapid Field Biosensor for Detecting Fecal Contamination on Fresh Produce Farms	Monday
18	Sulemana Issifu, Purdue University Pairwise Combinations of Biological Nitrification Inhibitors Reveal Antagonism and Synergism Against Nitrifiers and Soil Nitrification	Tuesday
19	Dielson Vieira, Purdue University Analysis of the cecum microbiome of the guinea pig: from species to fasting	Monday
20	Cindy Mayorga, Purdue University Use of polystyrene nanoparticles as particle models for Raman spectroscopy	Tuesday
21	Seyedeh Nooshan Mirmohammadali, Purdue University The Impact of Autoclaved versus Non-autoclaved Diet on Cecum and Colon Gut Microbiome Composition of Rats with Chronic Kidney Disease and Normal Kidney Function	Monday
22	Hannah Toth, The Ohio State University Using metagenomics to investigate the pathogen landscape and diversity of soft rot and blackleg infected potatoes	Tuesday
23	Mohamed Kamel, Purdue University Rapid Detection of Bovine Respiratory Disease Pathogens and Associated ARGs in Cattle Using Paper-Based Loop-Mediated Isothermal Amplification (LAMP)	Monday
24	Vasu Rao, Noelle Toong, Benjamin David, University of Michigan - Ann Arbor Quality Control for Automated Microbial Growth Experiments	Tuesday
25	Nafisa Rafiq, Purdue University A Field Deployable Heating System for Microbial Detection Using Loop-Mediated Isothermal Amplification (LAMP) Assay	Monday
26	Alfonso Carrillo, The Ohio State University Sub-daily virus sampling reveals population, but not community level differences at the Bermuda Atlantic Time Series	Tuesday
27	Laura Bran, Purdue University Development of biosensor for the detection of inflammatory blood biomarker in cattle	Monday
28	Jordan Mason, The Ohio State University Fecal and Urine Microbiota of Pet Dogs Vary with Breed and Sex	Tuesday
29	Sophia Stokes, The Ohio State University BefA Protein Induces Increased Growth in Germ-Free American Cockroaches	Monday



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30	Barsha Bhattarai, Northern Illinois University Mapping Antibiotic Resistant Genes (ARGs) and Bacteria (ARBs) in Diverse Environmental Niches	Tuesday
31	Bibek Raut, Purdue University Quantitative Analysis of Nucleic Acids on Paper Sensors	Monday
32	Jessica Li, University of Michigan - Ann Arbor A novel ultra-high-throughput microfluidic approach to grow and manipulate biofilms	Tuesday
33	Shreya Milind Athalye, Purdue University Viral Characterization and Real-Time Monitoring Using Raman Spectroscopy	Monday
34	Ethan Hillman, University of Michigan - Ann Arbor Bifidoacteria Leverage Type IVA Pili to Capture Resistant Starch and Enhance the Metabolism of an Isoluble Substrate	Tuesday
35	Melanie Kessler-Mathieu, USDA-ARS CGHAR Analysis of fungal microbiome composition of wheat subjected to different moisture and CO2 simulated storage conditions.	Monday
36	Kyungyeon Ra, Purdue University Lyophilize Loop-Mediate Isothermal Amplification method	Tuesday
37	Hisako Masuda, Indiana University Interactions between gut microbiota, medicinal herbs and a short-term plant-based diet	Monday
38	Iqra Nazir, Purdue University Impact of bacteriophage therapy against Salmonella Gallinarum on chicken gut microbiota	Tuesday
39	Anubhav Basu, University of Illinois at Urbana-Champaign Raffinose Family Oligosaccharide utilization by Bacteroides	Monday
40	Audrey Ellis, Purdue University Establishing a Gnotobiotic Mouse Model for Studying Swine-Microbiome Interactions	Tuesday
41	Mirian Aparecida de Campos Costa, Purdue University Impacts of Regular Black Tea Kombucha Consumption on the Gut Microbiota of Individuals With or Without Obesity	Monday
42	Zainab Alzoubi, University of Illinois at Urbana-Champaign Do nutrition interventions improve gastrointestinal symptoms during cancer treatment? A systematic review and meta-analysis.	Tuesday
43	Pei-Ru Jin, Purdue University Gut Bacterial Metabolite 3-Phenylpropionic Acid Alleviates Acetaminophen-induced Hepatotoxicity by Inhibiting Cytochrome P450 2E1 Expression	Monday
44	Kyoungjae Won, Purdue University Fusobacterium nucleatum Metabolites Promote Colorectal Cancer Cell Proliferation through Activating Aryl Hydrocarbon Receptor	Tuesday



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45	Erica Long, Purdue University A prediction model of tulathromycin antibiotic treatment success in pre-weaned dairy calves with bovine respiratory disease	Monday
46	Anurag Pujari, Purdue University Functional characterization of a GH43 enzyme from Bacteroides in Sorghum arabinoxylan cleavage	Tuesday
47	Emily Spicuzza, Purdue University * Development of Biofilm in a Hydroponics System	Monday
48	Devin North, University of Notre Dame Analysis of Temporal and Geographic Variation in Human Pathogens for Wastewater- Based Epidemiology (WBE) Applications	Tuesday
49	Daisy Ugalde, University of Illinois at Urbana-Champaign Intestinal and hepatic histology is altered by soluble fiber consumption in an FXR/SHP- dependent manner	Monday
50	Kien Vu, University of Notre Dame Application of Dye/Enzyme treatment for removing free nucleic acids in wastewater	Tuesday
51	Jeremy Beales, The Ohio State University Baseline gut microbiome alpha diversity predicts gastrointestinal symptoms in breast cancer patients receiving chemotherapy	Monday
52	Bilal Ahmed, Purdue University Development of a LAMP-based Paper-pad Biosensor for Genetic Trait Detection of Corn (Zea mays) and Soy (Glycine max)	Tuesday
53	Maria Luisa Savo Sardaro, Northwestern University How the gut microbiome can be shaped by the use of complex dietary fibers in food	Monday
54	Boyu Jiang, Purdue University Predicting host-microbiome interactions: integrating iColonEpithelium and microbial community-scale metabolic models	Tuesday
55	Jordan Rindels, University of Illinois at Urbana-Champaign Psychological stress and dietary fiber regulate markers of inflammation and anxiety	Monday
56	Anjali Vanamala, Purdue University The Impact of Anorexia Nervosa on the Gut Microbiota	Tuesday
57	Angela del Aguila, The Ohio State University Exploring the role of intraperitoneal immune cells in the communication between the gut microbiome and the brain	Monday
58	Angela Kent, University of Illinois at Urbana-Champaign Harnessing Microbiome Associated Phenotypes for Sustainable Nutrient Retention in Agroecosystems	Tuesday



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59	Emily Kelleher, Northwestern University Characterization of the Gut Microbiome in Sri Lankan Asian Elephants (Elephas maximus): A Comparative Study	Monday
60	Brandon Schemerhorn, Purdue University Shotgun Metagenomic Analysis of Schizaphis microbiome in response to Biotype, Carried CYDV and Time	Tuesday
61	Miguel Alvarez Gonzales, Purdue University In vitro degradation of wheat bran phenolic compounds by human gut microbiota	Monday
62	Noah Brown, University of Illinois at Urbana-Champaign * Prairie plant species differ in their resilience to fungicide-induced alterations of foliar endophytic mycobiomes	Tuesday
63	Marcelo Guerrero, Purdue University Experimental evolution of gut microbes on inulins varying in degree of polymerization	Monday
64	Sadia Marjia Ferdous, Case Western Reserve University Predicting Phage Cocktail Efficacy: A Step towards Phage-based Bacterial Control for Water Security	Tuesday
65	Rajsri Raghunath, Purdue University Cereal fiber type and bran particle size differentially selects for gut microbial community composition and function under high dilution pressure	Monday
66	Ritesh Ray, Northern Illinois University Comparative Genomics of Shiga toxin producing E. coli (STEC) harbored in bison and its impact on intestinal microbiome	Tuesday
67	Ainsley Tran, University of Illinois Chicago Determining the causal role of the gut microbiota in perinatal depression: A pilot study	Monday
68	Andrew Fleck, Purdue University HealthyHerd: A Web-Based Platform to surveil the spread of SARS-CoV-2 variants in Animal Populations	Tuesday
69	Arval Viji Elango, Purdue University Understanding the microbiome of Controlled Environment Agriculture towards the development of a microbial control	Monday
70	Clay Swackhamer, Purdue University Three patterns emerge in the gut microbial community during in vitro fecal fermentation of dietary fibers varying in their level of compexity	Tuesday
71	Cristian Salinas , Purdue University Microbial Community Analysis on Coffee Roots under Legume Intercropping Systems as an Alternative To Nitrogen Supply in Colombia	Monday
72	Danyang Duan, University of Illinois at Urbana-Champaign Ecological Memory of Nitrogen Fertilizers on Soil Microbiome Structure Becomes Evident at Peak Growth of Miscanthus	Tuesday



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73	Edward Moncada, Purdue University Deciphering Fiber Tolerance: Impact of Gut Bacterial Dysbiosis and Fiber Physicochemical Properties	Monday
74	Gopal Palla, Purdue University Field-deployable paper-based colorimetric LAMP biosensor for the detection of antimicrobial-resistant genes of Bovine respiratory disease	Tuesday
75	Henrique Petry Feiler, Purdue University Unveiling the Impact of Nanoplastics on Plant-Rhizosphere Dynamics: A Study of Tomato and Lettuce Microbiomes	Monday
76	Jose Haro-Reyes, Purdue University Anti-colitic activity of phlobaphenes and anthocyanins in IL-10 -/- mice is dependent on the human donor microbiota	Tuesday
77	Josiah Davidson, Purdue University Development of Nucleic Acid-based Diagnostics for the Detection of Viral Respiratory Pathogens in Humans and Animals on Paper	Monday
78	Muhtashim Rafiq Chowdhury, Case Western Reserve University Understanding the influence of houseplants on the indoor microbiome	Tuesday
79	Paul Oladele, Purdue University Evaluating the effect of lyoprotectants in preserving community structure and bacterial viability in the lyophilized fecal community of pigs.	Monday
80	Victoria Gutierrez, Purdue University Biofilm formation of Bifidobacterium spp. in sorghum arabinoxylan fermentation	Tuesday
81	Trever Thurgood, Purdue University Carbon Source-Specific Regulation of Nitrogen Fixation in Paraburkholderia xenovorans	Monday
82	Lauren Sofia Yepes Fernandez & Maria Alejandra Osorio Marulanda, Purdue University Whole Food Fibers For Support Of Key Gut Bacteria For Human Health	Tuesday
83	Natalie Duvanenko, Purdue University * A research proposal: root microbiomes and aphid resistance	Monday
84	Aliya Ehde, Purdue University The Molecular Ecology of Drinking Water in Building Plumbing as a Function of Stagnation	Tuesday
85	Mark M. Figueroa, Northern Illinois University * Determining the prevalence of Salmonella in wild and domesticated bison	Monday
86	Sajal Bhattarai, Purude University * Invitro Investigation of Synergistic Growth Behavior of Selected Gut Bacteria on Sorghum Arabinoxylas	Tuesday
87	Túlio Iglésias Machado, Purdue University * The use of PNA clamps for surveys of plant bacterial endophyte diversity	Monday