

# TRACK SCHEDULE

## Track A: Human Health, Nutrition, and Physiology

Thomas 216

Friday	9:40-9:50	Michael Evans	Nursing	Somatic Awareness and Self-Symptom Recognition in Advanced Heart Failure Patients
Friday	9:55-10:05	Heather Allaway & Clara Etter	Physiology, Kinesiology	Health in Exercising Women
Friday	10:10-10:20	Linda McAndrew	Nursing	Pain Management of Substance-using Trauma Patients and the Impact on Nurses
Friday	10:25-10:35	Lauren Randolph	Biomedical Engineering	Engineering Pluripotent Stem Cells to study development and directed differentiation for therapeutic applications of stem cell technology
Friday	2:15-2:25	Joanna Urbanek	Nutrition Sciences	Vitamin A metabolism and effects on immunity; dietary lipids in prevention of hepatic steatosis
Friday	2:30-2:40	Casey Pinto	Nursing	Rural Adolescents and Young Adults: Chlamydia and Gonorrhea Acquisition
Friday	2:45-2:55	Rachel Walker	Nutritional sciences	Lipid metabolism in chronic disease: insulin resistance, cardiovascular disease and lifestyle stress
Friday	3:00-3:10	Elizabeth Carney	Nutritional sciences	Childhood Obesity: Eating behaviors, neural mechanisms, and the effects of food marketing
Friday	3:15-3:25	Behnoosh Parsa	Motor Control	Multi-Digit Coordination
Friday	3:30-3:40	Joselyn Allen	Immunology and Infectious Disease	The role of Ron receptor tyrosine kinase and macrophage heterogeneity in obesity associated diseases
Saturday	9:15-9:25	Hillary Figler	Immunology and Infectious Disease	<i>E. coli</i> O157:H7 and the gut microbiota
Saturday	9:30-9:40	James Hester	Physiology	The role of zinc in oocyte maturation and the ovulatory transition
Saturday	9:45-9:55	Beng San Yeoh	Immunology and Infectious Disease	Metabolic Adaption to Inflammation

# Track B: Molecular and Developmental Biology of Humans and Model Organisms

Thomas 201

Friday	9:40-9:50	Kevin Flaherty	Anthropology	Morphometrics and 3D imaging in craniofacial development
Friday	9:55-10:05	Melanie McReynolds	Biochemistry, Microbiology and Molecular Biology	Deciphering molecular mechanisms of metabolic disease using <i>C. elegans</i>
Friday	10:10-10:20	Kahina Ghanem	Physiology	Avian Ovarian Follicle Dynamics
Friday	10:25-10:35	Lila Rieber	Bioinformatics and Genomics	Computational prediction of gene regulation.
Friday	2:15-2:25	Robert Nwokonko	Biomedical Sciences	Soar1 dimer binding to the c-terminus of Orail induces clustering
Friday	2:30-2:40	Victoria DeLeo	Plant Biology	Adaptation in Phenology
Friday	2:45-2:55	Lily Doershuk	Anthropology	Primate and Human Evolutionary Morphology and Biomechanics
Friday	3:00-3:10	Virginia Greenberger	Chemistry	Probing Biointerfaces
Friday	3:15-3:25	Dana Roberts	Entomology	Pollinators and Pests
Friday	3:30-3:40	Qiang Liu	Pharmacology	Autophagy in Acute Myeloid Leukemia
Saturday	9:15-9:25	Yurika Matsui	Molecular, Cellular and Integrative Biosciences	Molecular mechanisms of organ size control
Saturday	9:30-9:40	Chad Nihranz	Ecology	Effects of inbreeding, herbivory, and disease on plant defense-related traits
Saturday	9:45-9:55	Ben Chrisfield	Food Science	Using dietary components to prevent disease

# Track C: Disease, Ecological Interactions, and Agricultural Sciences

Thomas 104

Friday	9:40-9:50	Swayamjit Ray	Plant biology	Turnabout Is Fair Play: Herbivory-Induced Plant Chitinases Excreted in Fall Armyworm Frass Suppress Herbivore Defenses in Maize
Friday	9:55-10:05	Alexander Campbell	Molecular, Cellular and Integrative Biosciences	Asian long-horned beetle: Biology of an invasive cerambycid
Friday	10:10-10:20	Mehmet Ali Doke	Entomology	Social behavior and health of bees and other social insects
Friday	10:25-10:35	Chetna Soni	Biology and Entomology	Evolution-proofing disease control
Friday	2:15-2:25	Sonia Gelsinger	Animal Science	From calf to calving: managing nutrition and immune development
Friday	2:30-2:40	Balazs Koscsó	Postdoctoral Scholar	Role of intestinal macrophages in steady state and during infections
Friday	2:45-2:55	Ehsan Mahdinia	Agricultural and Biological Engineering	Raising and Erasing Microorganisms
Friday	3:00-3:10	Jo Ohm	Postdoctoral Scholar	Germinal center driven autoantibody production in lupus disease
Friday	3:15-3:25	Marta Tomasziewicz	Postdoctoral Scholar	Comparative analysis of the great ape Y chromosomes
Friday	3:30-3:40	Sreelakshmi Vasudevan	Immunology and Infectious Disease	Effects of early pregnancy on immune cells in dairy heifers
Saturday	9:15-9:25	Yin-Ting Yeh	Physics and Biomedical Engineering	Nanomaterial for virus hunting
Saturday	9:30-9:40	Andrew Fister	Genetics	Functional Genomics of <i>Theobroma cacao</i>
Saturday	9:45-9:55	Alison Franklin	Soil Science and Biogeochemistry	Water Conservation through Wastewater Reuse: What are the concerns?

# POSTERS & BOOTHS

Poster Session I (12-2 p.m.)

3<sup>rd</sup> floor bridge Life Science

Poster #	Name of Presenter	Program	Title
1	Flor Acevedo	Entomology	Transposon-based germ-line transformation of the Coffee Berry Borer, <i>Hypothenemus hampei</i> : Opportunities for functional genomics
2	Heather Allaway	Physiology	Low Resting Metabolic Rate in Exercise-Associated Amenorrhea is Not Due to a Reduced Proportion of Energetically Expensive Tissue Compartments
3	Joselyn Allen	Immunology and Infectious Diseases	Ron receptor tyrosine kinase plays a protective role in diet induced obesity and associated steatohepatitis
4	Fatemeh Bahari	Animal Science	Looking at Odd and Branched-Chain Fatty Acids in Cow's Milk
5	Michel Baldin	Engineering Science	Evidence of Seizures and Sudden Death in a Post-Malarial Model of Epilepsy
6	Alexis Baxter	Chemistry	Transition Metals at Supported Lipid Bilayers
7	Xiangyu Cai	<i>Postdoctoral Scholar</i>	Orai1 Concatemers Reveal a Hexameric Orai1 Channel Assembly
8	Elizabeth Carney	Food Science	A pilot study to test preschool children's intake of vegetables prepared with herbs and spices to create a variety of flavor options
9	Duverney Chaverra Rodriguez	Entomology	Targeted delivery of molecular cargo into the mosquito germline
10	Yueying Chen	Plant Pathology and Environmental Microbiology	Manipulation of chromatin configuration for suppression of host immunity by zinc finger effectors (MoZFEs) of rice blast pathogen
11	Xiaoheng Cheng	Molecular, Cellular and Integrative Biosciences	Fast and robust detection of ancestral positive selection from genomic data
12	Sathi Babu Chodiseti	<i>Postdoctoral Scholar</i>	Interferon- $\gamma$ receptor (IFN $\gamma$ R) signaling is essential for the development of Toll like Receptor-7 mediated systemic lupus erythematosus
13	Adwitia Dey	VBS/Physiology	The Ron receptor tyrosine kinase regulates inflammatory response in an experimental model of multiple sclerosis
14	Clara Etter	Kinesiology	Increases in perceived stress during energy deficiency is associated with lower follicular phase estrogen exposure and distinguishes anovulation from less severe exercise-related menstrual disturbances in young women
15	Michael Evans	Nursing	Somatic Awareness and Self-Symptom Recognition in Advanced Heart Failure Patients
16	Ali Falaki	Kinesiology	Studies of postural synergies: A sensitive tool for early Parkinson's disease
17	Dong Fengping	Biology	Deletion of CTNNA1 in inhibitory circuitry contributes to autism-associated behavioral defects
18	Melissa Finley	Plant Pathology	A genetics approach to understanding the host-pathogen parasitic relationship of apple and <i>Erwinia amylovora</i>
19	Alison Franklin	Soil Science and Biogeochemistry	Presence of three antibiotics in wheat plants and groundwater at The Living Filter: a wastewater reuse site
20	Kahina Ghanem	Physiology	What Can the Domestic Hen Teach Us About Ovarian Function?

21	Alexandre Harris	Molecular, Cellular & Integrative Biosciences	A New Unbiased Estimator of Gene Diversity for Samples Containing Related, Inbred, and Non-Diploid Individuals with Improved Variance
22	James Hester	Physiology	Zinc deficiency impairs fertility and oogenesis in <i>C. elegans</i>
23	Kuan-Hsun Huang	Nutritional Sciences	Lipid Emulsions, Rich in n-3 or n-9 Fatty Acids, Reverse Hepatic Steatosis in Lean Mice, After its Induction by Feeding Parenteral Nutrition Formula
24	Rebecca Johnson	Molecular, Cellular & Integrative Biosciences	Viral directed microRNA manipulation within <i>Anopheles gambiae</i>
25	Weslie Khoo	Food Science	Efficacy of Chewing Gum as a Delivery System for Water and Fat Soluble Vitamins
26	Balazs Koscsó	<i>Postdoctoral Scholar</i>	Mucosal resident Macrophages drive Adaptive Immunity against Entero-Invasive Infection
27	Kuancheng Liu	<i>Postdoctoral Scholar</i>	Viral DNA-dependent Induction of Innate Immune Response to Hepatitis B Virus in Immortalized Mouse Hepatocytes
28	Tina Lai	Plant Biology	Analyzing Somatic Embryogenesis Gene Expression in Response to Tissue Culture Enhancer PLA1 Protein
29	Qiang Liu	Agricultural and Biological Engineering	Autophagy facilitates malignant transformation but not progression of acute myeloid leukemia in an MLL-AF9-driven mouse model
30	Ehsan Mahdinia	Nutrition	Strain and plastic composite support (PCS) selection for Vitamin K (Menaquinone-7) production in Biofilm Reactors
31	Zenglei Wang	Entomology	Genome-wide association analysis identifies genetic loci associated with resistance to multiple antimalarials in <i>Plasmodium falciparum</i> from China-Myanmar border
32	Yun Li	<i>Visiting Scholar</i>	Objective, but not Subjective, Sleepiness is Associated with Inflammation in Sleep Apnea

## Poster Session II (5-6:30 p.m.)

3<sup>rd</sup> floor bridge Life Science

Poster #	Name	Program	Title
33	Manasi Kamat	Immunology and Infectious Disease	Induction of tolerogenic mediators in uterine immune cells during early pregnancy in dairy heifers
34	Linda McAndrew	Nursing	Pain Management of Substance using Trauma Patients and the Impact on Nurses: A Systematic Review
35	Melanie McReynolds	Biochemistry, Microbiology & Molecular Biology	De Novo Synthesis from Tryptophan in the Absence of a QPRTase Homolog Contributes to NAD <sup>+</sup> Biosynthesis in <i>C. elegans</i>
36	Caitlin Nealon	Biomedical Sciences	Effects of differential cannabinoid agonists on development of antinociceptive tolerance
37	Robert Nwokonko	Biomedical Sciences	Soar1 dimer binding to the c-terminus of Orail induces clustering
38	Damie Pak	Biology	Population dynamics of tortrix moths in Pennsylvania fruit orchards
39	Nick Parekh	Biomedical Sciences	Systemic, rather than local, macrophages limit virus spread following an intradermal infection
40	Behnoosh Parsa	Motor Control	Optimal Control of Unimanual and Bimanual Actions: An Inverse Optimization Approach
41	Casey Pinto	Nursing	Chlamydia and gonorrhea acquisition among adolescent and young adults in Pennsylvania: A rural and urban comparison

42	Lauren Randolph	Biomedical Engineering	Developing a Tet-On 3G and PiggyBac system for tunable and temporal gene expression in human pluripotent stem cells
43	Swayamjit Ray	Plant Biology	Turnabout Is Fair Play: Herbivory-Induced Plant Chitinases Excreted in Fall Armyworm Frass Suppress Herbivore Defenses in Maize.
44	Karly Regan	Entomology	Damage and Damage-Control: Invertebrates within Sustainable Cropping Systems
45	Claire Reynolds	Biochemistry, Microbiology & Molecular Biology	Heparan sulfate proteoglycans regulate autophagy in <i>Drosophila</i>
46	Bradley Rogers	Chemistry	Spectroscopic Characterization of Ions at Biointerfaces
47	Maliheh Safari	Plant Pathology and environmental microbiology	Evolution of nonpathogenic persistent plant viruses in pepper
48	Alex Serpi	Biology	Immune response of Tobacco Hornworms ( <i>Manduca sexta</i> ) following consumption of Horsenettle ( <i>Solanum carolinense</i> )
49	Djoshkun Shenjuler	Biochemistry, Microbiology & Molecular Biology	Poliovirus 3C protein is a phosphatidylinositol-phosphate-binding protein
50	Chetna Soni	<i>Postdoctoral Scholar</i>	Mechanisms of apoptotic cell-mediated dysregulation of germinal center tolerance checkpoint: Implications in autoimmunity
51	Simou Sun	Chemistry	Investigating and Detecting Small Molecules at Lipid Membranes
52	Kaila Thorn	Agriculture and Extension Education	Understanding Farmers' Perspectives on Climate Change
53	Erin Tyndall	Biomedical Sciences	Determining the Essential Features of an Exceptional Curvature-Sensing Amphipathic Helix
54	Marta Tomaszkiwicz	Biology	Comparative Analysis of the Y Chromosome Genomes of Great Apes
55	Joanna Urbanek	Nutrition Sciences	Vitamin A supplementation only transiently increases retinol concentrations in extrahepatic organs of neonatal rats raised under vitamin A-marginal conditions
56	Sreelakshmi Vasudevan	Immunology and infectious diseases	Changes in uterine immune regulatory factors and effects of pregnancy associated glycoproteins on uterine immune cells during early pregnancy in dairy heifers
57	Alex Weiner	Molecular, Cellular & Integrative Biosciences	Fz, Goa, and Axin Recruit Microtubule Nucleation Sites to Dendrite Branch Points
58	Rachel Wion	Nursing	Risk Perception for Contracting HIV: A Principle-Based Concept Analysis
59	Beth Worley	<i>Research Technician</i>	Antisense oligonucleotide-mediated knockdown of <i>Mpz13</i> protects from the metabolic consequences of a high-fat, energy-dense diet in mice
60	Beng Sen Yeoh	Immunology and Infectious Diseases	Innate immune protein lipocalin-2 and iron mitigate EGCG-mediated inhibition of myeloperoxidase
61	Jun Luo	<i>Postdoctoral Scholar</i>	Molecular Mechanisms of Hepatitis B Virus Covalently Closed Circular DNA Formation

# Facilities, Centers and Organizations

Poster Session I (12-2 p.m.) & Session II (5-6:30 p.m.)

## Posters

## 301D Life Science

Poster #	Name	Contact	Email
63	Genomics core facility	Craig Praul	cap142@psu.edu
64	Automated Biological Calorimetry facility	Neela Yennawar	nhy1@psu.edu
65, 66	X-Ray Crystallography facility	Neela Yennawar	nhy1@psu.edu
67	Microscopy and Cytometry facility	Gang Ning	gxn7@psu.edu
68, 69	Proteomics and Mass Spectrometry Core facility	Tatiana Laremore	tnl1@psu.edu
70	Center for Medical Genomics	Kateryna Makova	kdm16@psu.edu
71	Center for RNA Molecular Biology	Paul Babitzke	pxb28@psu.edu
72	Office of Sponsored Programs (OSP)	John Hanold	jhh6@psu.edu
73	Office for Research Protections (ORP)	John Hanold	jhh6@psu.edu
74	Office of Technology Management (OTM)	John Hanold	jhh6@psu.edu
75	Center for Quantitative Imaging	Tim Ryan	tmr21@psu.edu
76*	Eberly College of Science Climate and Diversity Committee	Melissa Rolls	mur22@psu.edu

## Booths

## 3<sup>rd</sup> floor bridge Life Science

Booth #	Name	Contact	Email
1	English for Professional Purposes Intercultural Center (EPPIC)	Meredith Doran	mcd15@psu.edu
2	Office for Innovation	Melissa Long	mk1137@psu.edu
3	Huck Graduate Student Advisory Committee (HGSAC)	Jennifer Legault	jtl190@psu.edu
4	MRI Facility	Thomas Neuberger	tun3@psu.edu
5	Science and Technology Libraries	Amy Paster	alp4@psu.edu
6*	Science Outreach	Michael Zeman	mjz120@psu.edu
7*	The Methodology Center	Stephanie Lanza	SLanza@psu.edu
8	GenoMix	Boris Rebolledo Jaramillo	ber5099@psu.edu
9	Graduate Women in Science (GWIS)	Sarah Sihvonen	szs276@psu.edu

10	Science Policy Society	Stephanie Bora	sub224@psu.edu
11	Office of Graduate Educational Equity Programs	Stephanie Danette Preston	sdp163@psu.edu

\* Indicates only Session I