



SCHOOL OF MEDICINE

CENTER FOR DIABETES AND METABOLIC DISEASES

9th Annual Symposium
August 4, 2023 | Event Schedule

8:00 am – 12:00 pm	Poster set up				Palmer Pierce Ballroom
8:00 am – 8:50 am	Registration / Breakfast				Christine Grant Ballroom
8:00 am – 8:45 am	Breakfast Keynote Speakers and Students				
	Sonia Caprio, MD Yale School of Medicine Alan D. Attie, PhD University of Wisconsin-Madison				Pat Summit/John Wooden Jesse Owens
8:50 am – 9:00 am	Welcome and Introduction				Christine Grant Ballroom
	Carmella Evans-Molina, MD, PhD Director, Center for Diabetes and Metabolic Diseases (CDMD) Lilly Professor of Pediatric Diabetes Indiana University School of Medicine				
9:00 am – 10:00 am	Keynote Speaker				Christine Grant Ballroom
	Sonia Caprio, MD <i>"Youth Onset Type 2 Diabetes: The Evolving Picture"</i> Professor of Pediatrics Division of Endocrinology Yale University School of Medicine, New Haven				
10:00 am – 10:30 am	Plenary Talk – 1				Christine Grant Ballroom
	Carla Miller, PhD, RD <i>"Impact of Augmented Care for Early Slow Weight Loss Responders among Adults with Prediabetes: Findings from an Adaptive Trial"</i> Professor Indiana University School of Public Health, Bloomington				
10:30 am – 11:00 am	Break				
11:00 am – 12:15 pm	Oral Abstract Presentations				
	Session 1: Immunology (Christine Grant Ballroom) Moderator: Jessica Maiers, PhD	Session 2: Islet biology/pancreas (Jesse Owens) Moderator: Michael Kalwat, PhD	Session 3: Metabolism/Neuroscience (Theodore Roosevelt) Moderator: Carol Witczak, PhD	Session 4: T1D/ β-cells (Pat Summitt/John Wooden) Moderator: Kok Lim Kua, MD	
11:00 am – 11:15 am	Leslie E Wagner (Abstract #24) <i>β Cell Heterogeneity in the IFN-α Response</i>	Annie Graber (Abstract #12) <i>In-vivo Treatment with Recombinant Reg3g Improves Islet Function and Heparan Sulfate Glycosaminoglycan in Offspring of Obese Mice.</i>	Zach Hanquier (Abstract #38) <i>Loss of FAM134B Limits Fibrogenesis By Disrupting Collagen Processing.</i>	Garrick Chang (Abstract #36) <i>Single Molecule Spatial Transcriptomics Demonstrates Spatial Heterogeneity of pre-miRNA and Classifies β-Cells in Type 1 Diabetes.</i>	
11:15 am – 11:30 am	Christopher Contreras (Abstract #9) <i>RIPK1 mediates TNFα-induced beta-cell death independent of caspase 3/7 activity in vitro.</i>	Maryalice Hartley (Abstract #13) <i>SERCA2 Regulates Lipid Composition and Proinsulin Processing.</i>	Mollie R. Shinkle (Abstract #34) <i>Investigating the Role of Deoxyhypusine Synthase in Neurodevelopment.</i>	Staci A. Weaver (Abstract #25) <i>Loss of SERCA2 and reduced ER calcium induces mitochondrial dysfunction, beta cell senescence, and accelerated T1D development.</i>	
11:30 am – 11:45 am	Chaitra Rao (Abstract #20) <i>Interferon alpha exposed human β cells upregulate programmed cell death-ligand 1 (PD-L1) on the surface of β cell extracellular vesicles.</i>	Sukrati Kanojia (Abstract #14) <i>Evaluating the role of Chd3 helicase subunit on β-cell function.</i>	Andrew Elmendorf (Abstract #32) <i>Energy status sensitive Ventromedial Hypothalamic PACAP stimulates tissue thermogenesis via preoptic outputs.</i>	Matthew Austin (Abstract #4) <i>Characterizing the Role of Autophagy in Type 1 Diabetes Development.</i>	

11:45 am – 12:00 pm	Isabela Iessi (Abstract #43) <i>Genome-scale in vitro CRISPR screens identify an ER export cargo protein as a mediator for β-cell stress response and autoimmune vulnerability.</i>	Noyonika Mukherjee (Abstract #17) <i>RIPK1 mediates ER stress-induced β-cell death independent of caspase 3/7 activity in vitro.</i>	Ajay Yadav (Abstract #31) <i>Aging aggravates the pathophysiology of NAFLD upon feeding a high-fat diet and affects epigenetic mechanisms of gene expression regulation.</i>	Madeline McLaughlin (Abstract #15) <i>STIM1 Interacts with G Protein-Coupled Estrogen Receptor Signaling to Maintain β Cell Identity in Female Mice.</i>
12:00 pm – 12:15 pm	Nansa Amarsaikhan (Abstract #5) <i>Regulatory T cells targeting a pathogenic MHC class II: Insulin peptide epitope prevent spontaneous autoimmune diabetes</i>	Sijie Xian (Abstract #42) <i>Insulin-Dendrimer Formulations for Ultra-Long Lasting AND Glucose Responsive Therapy.</i>	Jisun So (Abstract #30) <i>Serum Response Factor (SRF) promotes cytoskeletal remodeling to support hypertrophic growth and lipid storage in adipocytes during obesity.</i>	Sarah Fitzpatrick (Abstract #1) <i>Fracture Prevalence and Characteristics in Pediatric Type 1 and Type 2 Diabetes.</i>
12:15 pm – 2:15 pm	Lunch			Palmer Pierce Ballroom
12:45 pm – 2:15 pm	Poster Session			Palmer Pierce Ballroom
2:30 pm – 3:00 pm	Plenary Talk – 2 Ashay Bhatwadekar, PhD, RPh <i>“A Time for Sight: Investigating the Intersection of Diabetic Retinopathy and Circadian Rhythms”</i> Associate Professor of Ophthalmology Indiana University School of Medicine, Indianapolis			Christine Grant Ballroom
3:00 pm – 3:30 pm	Pilot and Feasibility Program Awardees Andrew T. Templin, PhD <i>“Novel roles of receptor interacting protein kinases in diabetogenic β-cell death”</i> Assistant Professor of Medicine Division of Endocrinology Indiana University School of Medicine, Indianapolis Heba Ismail, MBBCH, PhD <i>“Gut Microbial Changes Associated With Obesity In Youth With Type 1 Diabetes”</i> Assistant Professor of Pediatrics Division of Pediatric Endocrinology Indiana University School of Medicine, Indianapolis			Christine Grant Ballroom
3:30 pm – 4:30 pm	Keynote Speaker Alan D. Attie, PhD <i>“Systems Genetics of Metabolic Disease”</i> Jack Gorski Professor of Biochemistry Department of Biochemistry University of Wisconsin, Madison			Christine Grant Ballroom
4:30 pm – 4:50 pm	Poster Awards & Closing Remarks Núria Morral, PhD Associate Professor of Medical and Molecular Genetics Associate Professor of Biochemistry and Molecular Biology Indiana University School of Medicine, Indianapolis			Christine Grant Ballroom