

2024 Kern Lipid Conference

“Lipids and Mitochondria in Metabolic Disease”

Monday, August 12 - Wednesday, August 14, 2024

The Viceroy Hotel in Snowmass, Colorado

Organizers:

Jonathan Brestoff, MD, PhD, Washington University in St. Louis

Nada Abumrad, PhD, Washington University in St. Louis

Gregory Steinberg, PhD, McMaster University

Monday, August 12, 2024	
<i>Conference Check-In</i>	
7:00-8:00am	Conference Check-In <i>Outside the Grand Ballroom Salons 2-4, Spa Level</i>
<i>Opening Kern Lecture</i>	
8:05am	Welcome Remarks & Opening Kern Lecturer Introduction Moshe Levi, MD, President, Kern Lipid Conference, Georgetown University
8:15am	Opening Kern Lecture: "How do cells make heat?" Shingo Kajimura, PhD, Beth Israel Deaconess Medical Center/Harvard Medical School & HHMI
<i>Session 1: Lipids and Mitochondrial Metabolism in the Brain</i>	
9am-12:15pm	
	“Lipid metabolism defects in Alzheimer’s and Parkinson’s disease models” Hugo Bellen, DVM, PhD, Baylor College of Medicine
	“Targeting Microglial Lipid and Lipoprotein Metabolism in Neurodegenerative Disease” Kimberley Bruce, PhD, University of Colorado Anschutz Medical Campus
	“Mitochondria, energy constraints, and cellular aging” Martin Picard, PhD, Columbia University
	Morning Break
	“Importance of Hippocampus Lipid Remodeling in Behavior” Nada Abumrad, PhD, Washington University in St. Louis
	TBD: Short talk(s) from abstracts and/or industry sponsored
	Roger Davis Award Introduction & Lecture Speaker: TBA
12:15pm	Lunch <i>Salon 1 & Ballroom Terrace</i>
1:15-3:15pm	Afternoon Break
<i>Session 2: Immune Cells and Lipids in Metabolic Disease</i>	
3:15-6pm	
	“Immunometabolic crosstalk between energy and nutrient sensing pathways”

	Morgan Fullerton, PhD, University of Ottawa
	Afternoon Break
	"Unconventional role of T cells and the skin in controlling systemic lipid metabolism" Taku Kambayashi, MD, PhD, University of Pennsylvania
	<i>Tentative Topic: Lipid regulation of macrophages</i> Edward Pearce, PhD, Johns Hopkins University
	"Metabolic reprogramming and targeting of adaptive immunity" Hongbo Chi, PhD, St. Jude Children's Research Hospital
	TBD: Short talk(s) from abstracts and/or industry sponsored
Poster Session & Reception 6:15-8:15	
	Poster Session & Reception
Tuesday, August 13, 2024	
Session 3: Mitochondria Transfer in Metabolic Disease 8am-12pm	
	"Regulated Extracellular Vesicle Secretion by Adipocytes" David Bernlohr, PhD, University of Minnesota
	"Adipocyte extracellular vesicles in metabolic regulation" Clair Crewe, PhD, Washington University in St. Louis
	"Innate immune cell regulation of brown fat thermogenesis" Jonathan Brestoff, MD, PhD, Washington University in St. Louis
	Morning Break
	"Secretion of Mitochondria in Extracellular Vesicles in Response to Lysosomal Dysfunction" Åsa Gustafsson, PhD, University of California, San Diego
	"Macrophages, keepers of mitochondrial health" Andres Hidalgo, PhD, Yale
	David L. Williams Award Lecture Speaker: TBA
	TBD: Short talk(s) from abstracts and/or industry sponsored
12pm	Lunch <i>Salon 1 & Ballroom Terrace</i>
1pm	Afternoon Break
Exhibitor Hall Open 1-4pm List of exhibitors TBA	
Small Group Discussions 1-3pm	
	<u>Academic Career Success:</u> This table will discuss some of the logistics of succeeding in a scientific career. Common questions about how to sequence grants and papers, how to find the right study section, how to navigate the NIH, and other topics will be open for discussion.

	<u><i>Academic-Industry Partnership:</i></u> We will have a discussion group led by 1-2 industry professionals that focuses on how to navigate collaborations in academia with industry partners.
	<u><i>Diversity, Equity & Inclusion (DEI) in Academic Labs:</i></u> We will have a table that focuses on how to build a lab culture that embraces DEI principles and that maximizes the successes and opportunities for all lab members.
	<u><i>Meet the Editors:</i></u> We have invited several editors of leading metabolism and cardiovascular system journals to attend our meeting. These editors will meet with young scientists to discuss publishing best practices.
	<u><i>The Faculty Job Search:</i></u> For those who are starting to search for faculty jobs, we will have one table for advice on how to prepare materials for job applications and how to navigate the job search process.
Wednesday, August 14, 2024	
<i>Session 4: Lipids and Mitochondrial Metabolism in Metabolic Disease</i>	
8:30-11:30am	
	Presentation of the Franz Simon Poster Award – Recipient To be Announced Moshe Levi, MD, President, Kern Lipid Conference, Georgetown University
	<i>Tentative topic: Mitochondria & glucose metabolism</i> Alan Saltiel, PhD, University of California, San Diego
	<i>“The Role of Mitochondria in White Adipocytes – Essential Beyond Generic Housekeeping”</i> Philipp Scherer, PhD, UT Southwestern Medical Center
	<i>Tentative topic: Uncoupling proteins in heart disease</i> Mary-Ellen Harper, PhD, University of Ottawa
	<i>“Mitochondria Lipid Droplet Interaction”</i> Orian Shirihai, MD, PhD, UCLA
	<i>“Reversible Myristoylation of Hormone Sensitive Lipase Regulates Adipocyte Lipolysis”</i> Emma Robinson, PhD, University of Colorado Anschutz Medical Campus
	Morning Break
<i>Session 5: Lipids in Cancer</i>	
11:30am-3pm	
	<i>“Modulation of fatty acid metabolism enhances tumor immunogenicity”</i> Gregory Steinberg, PhD, McMaster University
	<i>“Metabolic co-option of immune cells in cancer”</i> Sue Kaech, PhD, The Salk Institute for Biological Studies
	TBD: Short talk(s) from abstracts and/or industry sponsored
1pm	Lunch <i>Salon 1 & Ballroom Terrace</i>
	<i>“Mitochondrial Stress Signaling in Aging, Disease and Immunity”</i> Gerald Shadel, PhD, The Salk Institute for Biological Studies
	<i>“Gaining Insights Into Lipid-Mediated Mechanisms using FALCON”</i> Anna Greka, MD, PhD, Broad Institute of MIT and Harvard
<i>Closing Kern Lecture</i>	

1pm	Closing Remarks & Closing Kern Lecturer Introduction Moshe Levi, MD, President, Kern Lipid Conference, Georgetown University
3:10pm	Closing Kern Lecture: "Acetyl-CoA metabolism in Physiology and Cancer" Kathryn Wellen, PhD, University of Pennsylvania
3:55-6pm	Afternoon Break
<i>Final Night Dinner & Dancing</i>	
6-8pm	Cocktail Reception & Dinner <i>Salon 1 & Ballroom Terrace</i>
8-10pm	Music & Dancing <i>Salon 1 & Ballroom Terrace</i>