

2019 Kern Lipid Conference

“Signaling Lipids In Health and Disease”

Monday, August 12, 2019 - Wednesday, August 14, 2019,
Vail, Colorado

Organizers:

Russell DeBose-Boyd, PhD, University of Texas Southwestern Medical Center
Rebecca Haeusler, PhD, Columbia University
J. Mark Brown, PhD, Cleveland Clinic Lerner Research Institute

Conference Registration

Monday, August 12, 2019

7:30-8:15am	Conference Check-In and Breakfast <i>Grand Ballroom Foyer and Registration Desk</i>
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Kern Lecturer

8:15am	Introduction and Presentation of the Kern Lectureship Award Moshe Levi, MD, President, Kern Lipid Conference, Georgetown University – USA
8:25am	Kern Lecture: “Lysophospholipid Signaling Pathways at the CNS- Immunology Interface” Benjamin F. Cravatt III, PhD, Scripps Research Institute – USA

Session 1: Neuronal Lipid Signaling

Session Chair: Russell DeBose-Boyd, PhD

9:15am	“Lipid Sensing from the Periphery to the CNS” Gary Schwartz, PhD, Albert Einstein – USA
9:45am	“Apolipoproteins in Neurodegenerative Disease” Cheryl Wellington, PhD, The University of British Columbia – Canada
10:15am	Coffee Break
10:30am	“Hypothalamic Control of Energy Metabolism in Obesity” Jens Brüning, PhD, Max Planck Institute for Metabolism Research – Germany
11:00am	“Lipid Signaling in the Gut-Brain Axis” Tony Lam, PhD, University of Toronto – Canada
11:30am	“Title - To Be Determined - Selected From Abstracts” Young Investigator Short Talk
12:00pm	Lunch <i>Mountain View Patio</i>
1:00-4:15pm	Afternoon Break

Session 2: Therapeutic Strategies Targeting Lipid Metabolic Pathways

Session Chair: John Parks, PhD

4:15pm	"Targeting Liver Lipid Metabolism with AMPK Activators" Russell Miller, PhD, Pfizer – USA
4:45pm	"New Therapeutics in Cardiometabolic Disease" Laura Michael, PhD, Eli Lilly – USA
5:15pm	"Cardiovascular and Metabolic Effects of Lipoprotein (a) Antisense Oligonucleotides" Rosanne Crooke, PhD, IONIS Pharmaceuticals – USA
5:45pm	"Genome Editing Approaches in Lipid Metabolic Disturbances" Kiran Musunuru, MD, PhD, MPH, University of Pennsylvania – USA
6:15pm	Poster Session and Reception <i>Grand Ballroom, Salons F-J</i>

Tuesday, August 13, 2019

7:30-8:30am	Breakfast Buffet <i>Grand Ballroom Foyer</i>
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Session 3: Strategies for Targeting Aberrant Lipid Signaling in Cancer

Session Chair: John Stafford, MD, PhD

8:30am	"The Role of Lipid Metabolism in Antiangiogenic Drug Resistance" Yihai Cao, PhD, Karolinska Institute – Sweden
9:00am	"Altered Lipid Metabolism in Myc-Transformed Cancers" Celeste M. Simon, PhD, University of Pennsylvania – USA
9:30am	Coffee Break
10:00am	"Long Chain Fatty Acid Metabolism is a Critical Epigenetically-Driven Dependency in Glioma Stem Cells" Jeremy Rich, MD, University of California - San Diego – USA
10:30am	"Mutant GNAS Drives Pancreatic Cancer Progression via Lipid Metabolic Reprogramming" Nabeel Bardeesy, PhD, Massachusetts General Hospital – USA
11:00am	"Title - To Be Determined - Selected From Abstracts" Young Investigator Short Talk
11:15am	"Title - To Be Determined - Selected From Abstracts" Young Investigator Short Talk
12:00pm	Lunch <i>Mountain View Patio</i>
1:15pm	Introduction and Presentation of the Roger Davis Lecturer Robert H. Eckel, MD, University of Colorado Denver – USA
1:20pm	Roger Davis Lecture: TBD "TITLE TBD "

1:50pm	Introduction and Presentation of the Journal of Lipid Research (JLR) Junior Investigator Award JLR Associate Editor Russell DeBose-Boyd, PhD, University of Texas Southwestern Medical Center – USA JLR Junior Investigator Award Lecture: “Regulation of PCSK9 and LDLc by Glucagon Signaling” Lale Ozcan, MD, Columbia University – USA
2:20pm	“Use of Lipoproteins as Fuel for Immune Cells” Alison Kohan, PhD, University of Connecticut – USA
2:50pm	Afternoon Break

Wednesday, August 14, 2019

7:30am	Breakfast Buffet <i>Grand Ballroom Foyer</i>
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Session 4: Mechanisms Regulating Intracellular Lipid Storage and Mobilization

Session Chair: Rebecca Haeusler, PhD

8:30am	Franz Simon Poster Award/Introduction – Recipient To be Announced Moshe Levi, MD, President, Kern Lipid Conference, Georgetown University – USA
8:40am	“Epigenetic Regulation of Brown Adipose Tissue Function” Hei Sook Sul, PhD, University of California – USA
9:10am	“Intracellular Lipid Trafficking” Sarah Cohen, PhD, University of North Carolina-Chapel Hill – USA
9:40am	“Protein Interactions at the Lipid Droplet-ER Interface” James A. Olzmann PhD, University of California-Berkeley – USA
10:10am	Coffee Break
10:25am	“Interplay between ChREBP and SREBP Coordinates Glucose and Lipid Metabolism” Guosheng Liang, PhD, University of Texas Southwestern Medical Center – USA
10:55am	“Dynamic Interactions at the Lipid Droplet Surface” Robert Farese Jr., MD,/Tobias Walther, PhD, Harvard University – USA
11:25am	“Imaging Lipids, Lipid Dynamics, and Lipid-Protein Interactions ” Enrico Gratten, PhD, University of California-Irvine – USA
11:55am	“Title - To Be Determined - Selected From Abstracts” Young Investigator Short Talk
12:15pm	Lunch <i>Mountain View Patio</i>

Session 5: Microbe-Host Interactions Impacting Lipid Metabolism & Cardiometabolic Disease

Session Chair: J. Mark Brown, PhD

1:30pm	"Gut Microbial Choline Metabolism as a Determinate of Host Epigenetics" Federico Rey, PhD, University of Wisconsin-Madison – USA
2:00pm	"Microbe-Driven Tryptophan Metabolism in Cardiometabolic Disease" Kyongbum Lee, PhD, Tufts University – USA
2:30pm	"Microbial Metabolites Regulate Host Lipid Metabolism through NR5A-Hedgehog Signaling" Meng C. Wang, PhD, HHMI, Baylor College of Medicine – USA
3:00pm	Coffee Break
3:15pm	"Probing Microbe-Host Bile Acid Metabolic Circuits Using Clostridium Genetics" Michael Fischbach, PhD, Stanford University – USA
3:45pm	"Gut Microbe-Derived NAPE Lipids in Cardiometabolic Disease" Sean Davies, PhD, Vanderbilt University – USA
4:15 pm	Introduction to David L. Williams Lecture and Award Mary Sorci-Thomas, PhD, Medical College of Wisconsin – USA
4:20pm	David L. Williams Lecture Awardee to be determined
4:50pm	Afternoon Break
6:30pm	Dinner Reception "Collaborations Between Industry and Academia" Mark Erion, PhD, Janssen Pharmaceuticals – USA <i>Grand Ballroom</i>