

2018 Kern Lipid Conference

“Metabolic Regulation of Immunity, Cardiometabolic Diseases and Cancer: New Therapeutic Approaches”

Monday, August 13, 2018 - Wednesday, August 15, 2018, Vail, Colorado

Organizers: Nada A Abumrad, PhD, Washington University, Susan Kaech, PhD, Salk Institute
and Roger Newton, PhD, Esperion Therapeutics & University of Michigan

Conference Registration

Monday, August 13, 2018

7:30-8:15am	Conference Check-In and Breakfast <i>Grand Ballroom Foyer and Registration Desk</i>
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Session 1: Metabolic Reprogramming in Homeostasis and Disease

Session Chair: Nada Abumrad, PhD

8:30am	Introduction and Presentation of the Kern Lectureship Award Moshe Levi, MD, Georgetown University
9:00am	Kern Lecture: “mTOR and lysosomes in growth control” David Sabatini, MD, PhD, MIT Biology and Whitehead Institute
9:45am	“Glucose and amino acid metabolism in cancer” Jason Locasale, PhD, Pharmacology and Cancer Biology, Duke University
10:20am	“Reprogramming metabolism in NAFLD using novel amino acid compositions” Manu Chakravarthy, MD, PhD, Axcella Health, Inc.
10:35am	Break
10:50am	“AMPK restores metabolic homeostasis” Daniel Garcia, PhD, Molecular and Cell Biology Laboratory, Salk Institute
11:25am	“Acetyl-CoA metabolism in pancreatic tumorigenesis” Kathryn Wellen, PhD, Cancer Biology, University of Pennsylvania
12:00pm	Lunch <i>Mountain View Patio</i>
1:20pm	Introduction to David L. Williams Lecture and Award Mary Sorci-Thomas, PhD, Medical College of Wisconsin
1:25pm	David L. Williams Lecture: “Intersection of insulin action with cholesterol and bile acid metabolism” Rebecca Anne Haeusler, PhD, Pathology and Cell Biology, Columbia University
2:00pm	“Mapping Human Metabolic Diversity and its Role in Disease Using Untargeted Metabolomics” Mohit Jain, MD, PhD, Medicine, University of California, San Diego
2:35pm	“Lipids Reprogram Metabolism Providing a Major Source for Histone Acetylation” Matthew Hirschey, PhD, Medicine, Endocrinology, Metabolism, and Nutrition, Duke University

3:10pm	Break
3:30pm	Introduction by co-chair Philipp Scherer, Ph.D. University of Texas-Southwestern “Nutrient Regulation of Muscle Insulin Sensitivity” Zoltan Pierre Arany, MD, PhD, Medicine, Perelman School of Medicine
4:05pm	“Trans-Endothelial Insulin Efflux in Skeletal Muscle Capillaries” David Wasserman, PhD, Molecular Physiology and Biophysics, Vanderbilt University
4:40pm	“Fatty Acid Sensitive Regulation of the Insulin Receptor and AMPK Pathways” Dmitri Samovski, PhD, Medicine, Nutritional Sciences, Washington University
5:15pm	Introduction by Josiane Broussard, PhD, Colorado State University Young Investigator Presentation: “Monounsaturated fatty acid synthesis regulates inflammation” Autumn York, PhD, Immunobiology, Yale University
5:30pm	Young Investigator Abstract Presentation: “A Lipid-Regulated miRNA Controls Intracellular Phosphatidylinositol metabolism” Syed Hamid, PhD, Smidt Heart Institute & Department of Biomedical Sciences, Cedars Sinai
5:45pm	Young Investigator Abstract Presentation: “Alveolar Macrophage Lipid Homeostasis and the Anti-Cancer Immune Response” Alexandra Kuhlmann, Immunobiology, Yale University
6:00pm	Poster Session <i>Grand Ballroom Salons F-J</i>

8:15am	Breakfast Buffet <i>Grand Ballroom Foyer</i>
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Session 2: Metabolism of Endothelial and Immune Cells in Health and Disease

Session Chair: Susan Kaech, PhD

9:00am	"Endothelial Cell Fatty Acid Transport; A Potent Regulator of Tissue Metabolism" Ira Goldberg, MD, Division of Endocrinology, Diabetes, and Metabolism, New York University
9:35am	"Molecular Regulation of Endothelial Permeability and Lipid Transport by VEGF Signaling" Anne Eichmann, PhD, Medicine, and Cellular and Molecular Physiology, Yale University
10:10am	Young Investigator Abstract Presentation: "Hemodynamics Determine Glucose Delivery to Skeletal Muscle" Penn McClatchey, PhD, Vanderbilt University
10:25am	Break
10:35am	"Metabolic Dysregulation of Cellular Innate Immunity in Inflammatory Vasculitis" Sonia Sharma, PhD, La Jolla Institute for Allergy and Immunology
11:10am	Introduction and Presentation of the Journal of Lipid Research Junior Investigator Award and Lectureship Jay D. Horton, MD, University of Texas-Southwestern
11:15am	JLR Lecture "Characterization of Immune Cell Metabolism in Obesity" Lydia Lynch, PhD, Biochemistry and Immunology, Harvard University
11:50am	Young Investigator Abstract Presentation: "Ablation of Site-2 protease in liver reduces hepatic lipogenesis" Yanchao Xu, PhD, University of Texas Southwestern Medical Center
12:05pm	Lunch <i>Mountain View Patio</i>
1:20pm	Introduction and Presentation of the Roger Davis Lecturer Robert H. Eckel, MD, University of Colorado Denver
1:25pm	Roger Davis Lecture: "CD36 regulates lymphatic endothelial cells by modulating VEGF-C activation and signaling" Vincenza Cifarelli, PhD, Washington University
1:55pm	"Regulation of T cell metabolism and immunity by store-operated Ca²⁺ entry" Stefan Feske, MD, Pathology, New York University School of Medicine
2:30pm	"Adipocyte Precursor Activation During Onset of Obesity" Matthew Rodeheffer, PhD, Comparative Medicine, Yale University
3:05pm	End of Session 2

7:30am	Breakfast Buffet <i>Grand Ballroom Foyer</i>
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Session 3: Old and New Therapeutic Approaches in Metabolic Disease and Cancer

Session Chair: Roger Newton, PhD

8:30am	Franz Simon Poster Award/Introduction – Recipient To be Announced Moshe Levi, MD, President, Kern Lipid Conference/Georgetown University
8:45am	“Liver-specific Inhibition of ATP-Citrate Lyase by Bempedoic Acid Decreases LDL Cholesterol and Atherosclerosis” Stephen L Pinkosky, PhD, Esperion Therapeutics
9:20am	“The ATP-Citrate Lyase Inhibitor, Bempedoic Acid, Lowers LDL-Cholesterol and Attenuates Atherosclerosis in LDL Receptor Deficient Yucatan Miniature Pigs” Murray Huff, PhD, Medicine, Robarts Research Institute, University of Western Ontario
9:55am	Break
10:20am	Joint Presentation: “The discovery and development of ACC inhibitors for NASH: A tag team between industry and academia” Rosana Kapeller, MD, PhD, Former CSO of Nimbus Therapeutics and Bryan Fuchs, PhD, Harvard Medical School
11:20am	“Metabolic Sensing by AMPK and its Potential as a Therapeutic Target for Treating Metabolic Disease and Cancer” Gregory Steinberg, PhD, Medicine Endocrinology and Metabolism, McMaster University, Ontario
12:00pm	Lunch <i>Mountain View Patio</i>
1:20pm	Introduction by co-chair Sam Klein, MD, Washington University School of Medicine
1:25pm	“Acetyl-CoA Carboxylase Inhibition Reduces Hepatic Steatosis but Elevates Plasma Triglycerides in Mice and Humans: A Bedside to Bench Investigation” Jay D. Horton, MD, Digestive and Live Diseases, University of Texas-Southwestern
1:55pm	“Isotope tracing untargeted metabolomics reveals novel roles for ketone metabolism in nonalcoholic fatty liver disease” Peter Crawford, MD, PhD, Medicine, Molecular Medicine, University of Minnesota
2:30pm	Young Investigator Abstract Presentation: “Scaffolding protein IQGAP1 as a key regulator of long-term ketosis” Hanna Erickson, MD/PhD Student, University of Illinois at Urbana-Champaign
2:45pm	Young Investigator Abstract Presentation: “Mitochondrial DNA Repair on Protection Against Obesity & Metabolic Syndrome” Sai Santosh Babu Komakula, PhD Student, Rutgers University
3:00pm	Break
3:15pm	“Identification and Validation of New Targets Using Precision Phenotyping and Panomics” Szilard Voros, MD, Global Genomics Group, Visiting Professor, Medicine, Stony Brook University
3:50pm	“Using Mendelian Randomization to Identify and Validate Novel Therapeutic Targets” Brian A Ference, MD, MPhil, MSc, Centre for Naturally Randomized Trials Strangeways Research Laboratory, University of Cambridge

4:25pm	Young Investigator Abstract Presentation: “Loss of Whole Body Perilipin-2 Imparts Profound Susceptibility to Carbohydrate-Mediated Browning of White Adipose Tissue” Andrew Libby, PhD, University of Colorado Anschutz Medical Campus
4:40pm	Young Investigator Abstract Presentation: “Exploring a Novel CD8 T cell that Modulates Cardiovascular Disease Progression” Lindsey E. Padgett, PhD, La Jolla Institute for Allergy and Immunology
4:55pm	Break
6:30pm	Dinner and Reception <i>Grand Ballroom</i>