

KEYSTONE SYMPOSIA on Molecular and Cellular Biology

Systems Biology of Lipid Metabolism (B4)

February 9-13, 2015 • Beaver Run Resort • Breckenridge, Colorado, USA

Scientific Organizers: Matej Orešič, Antonio J. Vidal-Puig and Ana Maria Cuervo

Supported by the Directors' Fund

Abstract & Scholarship Deadline: October 14, 2014 / Abstract Deadline: November 13, 2014 / Discounted Registration Deadline: December 10, 2014

MONDAY, FEBRUARY 9

Registration

TUESDAY, FEBRUARY 10

Keynote Address

Dennis E. Vance, University of Alberta, Canada

Phospholipid Methylation: An Unexpected Player in Obesity and Insulin Resistance

Cellular Lipid Signaling and Metabolism

Ana Maria Cuervo, Albert Einstein College of Medicine, USA

Role of Lipid Metabolism in Autophagy

Eyleen O'Rourke, University of Virginia, USA

Role of Lipases in Control of the Lifespan

Sepp Dieter Kohlwein, Institute of Molecular Biosciences, Austria

Yeast and Cancer Cells: Common Principles in Lipid Metabolism

Short Talk(s) Chosen from Abstracts

Modeling of Lipid Metabolism

Jens Nielsen, Chalmers University of Technology, Sweden

Metabolic Modeling of Lipid Metabolism

Ilpo Vattulainen, Tampere University of Technology, Finland

Modeling of Lipid Membranes, Lipid-Protein Interactions and Lipoproteins

Matej Orešič, VTT Technical Research Centre of Finland, Finland

Lipid Pathways Behind the Acquired Obesity and the Associated Co-Morbidities

Short Talk Chosen from Abstracts

Poster Session 1

WEDNESDAY, FEBRUARY 11

Lipids in Obesity and its Metabolic Co-Morbidities

Antonio J. Vidal-Puig, University of Cambridge, UK

Adipose Tissue Expandability, Lipotoxicity and the Metabolic Syndrome

Elizabeth J. Parks, University of Missouri, USA

Fatty Acid Metabolism in Obesity and Fatty Liver

Rudolf Zechner, University of Graz, Austria

Lipolysis in Health and Disease

David E. Moller, Eli Lilly and Company, USA

Novel Drug Targets - Modulating Fatty Acid Metabolism as a

Therapeutic Approach for Metabolic Disorders

Short Talk(s) Chosen from Abstracts

Lipids in Immune System Regulation

Speaker to be Announced

Valerie B. O'Donnell, Cardiff University, UK

Oxidized Membrane Lipids in Inflammation

Tuulia Hyötyläinen, VTT Technical Research Centre of Finland, Finland

Altered Lipid Metabolism Preceding Onset of Islet Autoimmunity and Type 1 Diabetes

Short Talk Chosen from Abstracts

Poster Session 2

THURSDAY, FEBRUARY 12

Lipid Metabolism and the Brain

Cheryl L. Wellington, University of British Columbia, Canada

HDL Metabolism in the Brain

Satchidananda Panda, The Salk Institute for Biological Studies, USA

Circadian Regulation of Lipid Metabolism

Xianlin Han, Sanford Burnham Medical Research Institute, USA

Lipidomics Approaches to Study Alzheimer's Disease

Paul Amminger, University of Melbourne, Australia

Polyunsaturated Fatty Acids in Emerging Psychotic Disorders

Short Talk(s) Chosen from Abstracts

Lipids in Cancer

Antonio Moschetta, Consorzio Mario Negri Sud, Italy

Role of Bile Acids in Colon Cancer

Michael J.O. Wakelam, Babraham Institute, UK

Inositol Phospholipid Signaling in Cancer

Gary Siuzdak, The Scripps Research Institute, USA

Lipid Metabolism and the Role of the Microbiome in Colon Cancer

Short Talk Chosen from Abstracts

FRIDAY, FEBRUARY 13

Departure