

LIPID MAPS Annual Meeting 2015

# Lipidomics Impact on Cancer, Metabolic and Inflammatory Diseases

May 12-13 2015 // La Jolla, CA

Register online at [www.lipidmaps.org](http://www.lipidmaps.org)  
Early Registration Ends April 3, 2015

## Metabolomics

Dynamic global changes during disease onset and dietary perturbations revealed using multiomics profiling

Michael Snyder - Stanford University

Translational lipidomics: Linking lipidomics to laboratory medicine

David Wishart - University of Alberta, Canada

Mapping dysregulated metabolic pathways in disease using functional metabolomic platforms

Daniel K. Nomura - University of California, Berkeley

## Lipidomics of Cancer

The role of sphingolipids with different acyl chains in human disease

Tony Futerman - Weizmann Institute, Israel

Deoxysphinganine as regulators of breast cancer cell growth

Marion B. Sewer - University of California, San Diego

Lipidomics of Human Hepatocellular Carcinoma (HCC): New insights into the roles of lipid metabolism and mitochondrial function

Huiyong Yin - Shanghai Institutes for Biological Sciences, China

Regulation of lipid and mitochondrial metabolism by the microenvironment

Christian Metallo - University of California, San Diego

## Eicosanoids and the Inflammatory Response

Omega-3 fatty acid metabolites and neurodegeneration

Nicolas G. Bazan - Louisiana State University

Mapping the diversity of the human platelet lipidome

Valerie O'Donnell - Cardiff University, UK

Monitoring dysregulated mitochondrial metabolism using human platelets

Ian A. Blair - University of Pennsylvania

## Lipidomics and Metabolic Disease

Remodeling of fatty acyl chains in phosphatidylinositol

Hiroyuki Arai - University of Tokyo, Japan

Phosphatidylserine and phosphatidylethanolamine in Lenz-Majewski Syndrome and mitochondrial function

Jean Vance - University of Alberta, Canada

Physiological functions and regulation of phosphatidate phosphatase

George M. Carman - Rutgers University

## Lipid Interactions with Membrane Proteins

Crystal structures of Translocator Protein 18 kDa (peripheral benzodiazepine receptor) reveal membrane lipid and ligand binding sites

Shelagh Ferguson-Miller - Michigan State University

Effective lipids on membrane proteins

Robert M. Stroud - University of California, San Francisco

The structural basis for the control of lipoxygenase activity

Marcia E. Newcomer - Louisiana State University

## Lipids and Immunity

Lipid mediators guide the adaptive immune response

Jason G. Cyster - University of California, San Francisco

Understanding the role of sterol metabolism in immunity

Steven Bensinger - University of California, Los Angeles

SIPRI modulators: Screening, structure and clinical solutions

Hugh Rosen - The Scripps Research Institute

The immune response to infection

Alan Aderem - Seattle Biomedical Research Institute

**plus:** poster sessions and twelve lightning talks selected from poster abstract submissions

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