

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Integrating Metabolism and Immunity (D2)

April 3-7, 2020 • Keystone Resort • Keystone, Colorado, USA

Scientific Organizers: Marc Y. Donath, Tom Thuren, Bruce M. Spiegelman and Diane Mathis

Sponsored by Cell Research

Discounted Abstract & Scholarship Deadline: December 4, 2019 / Abstract Deadline: January 8, 2020 / Discounted Registration Deadline: February 4, 2020

FRIDAY, APRIL 3

Arrival and Registration

SATURDAY, APRIL 4

Welcome and Keynote Address

Bruce M. Spiegelman, Harvard Medical School, USA
From the Role of TNF in Insulin Resistance to Immunometabolism

Immunometabolism: The Metabolic View

Diane Mathis, Harvard Medical School, USA
Control of Metabolism by Immune Cells

Vishwa Deep Dixit, Yale University, USA
Immunometabolic Regulation of Aging

Ana Domingos, IRS-Fundação Calouste Gulbenkian, University of Oxford, Portugal
Regulation of Obesity by Neuron-Associated Macrophages

Short Talk(s) Chosen from Abstracts

Immunometabolism: The Immunologist View

Luke A. J. O'Neill, Trinity Biomedical Sciences Institute, Ireland
Krebs Cycle Repurposed for Cytokines

Janelle S. Ayres, The Salk Institute for Biological Studies, USA
Metabolic Adaptations in Host-Microbe Interactions

Ruslan Medzhitov, HHMI/Yale University School of Medicine, USA
Immunologic Cross-Talk

Short Talk(s) Chosen from Abstracts

Poster Session 1

SUNDAY, APRIL 5

Clinical Translation: Unmet Needs

Marina Mesquida, F. Hoffmann-La Roche Ltd, Switzerland
Anti-Inflammatory Treatment of Diabetic Eye Complications

Marc Y. Donath, University Hospital Basel, Switzerland
Islet Inflammation: Physiology, Pathology and Treatment

Tom Thuren, Novartis Pharmaceuticals, USA
Requirement to Implement Anti-inflammatory Treatment of Cardiometabolic Diseases

Christoph Hess, University Hospital Basel, Switzerland
From Patient to Molecular Understanding of Immunometabolism

Short Talk(s) Chosen from Abstracts

Insulin Production and Action

Alan R. Saltiel, University of California, San Diego, USA
Insulin Signaling

Bruce Verchere, University of British Columbia, Canada
Islet Amyloid Polypeptide

Elise Dalmas, INSERM, France
Innate Immune Regulation of Insulin Secretion

Short Talk(s) Chosen from Abstracts

Poster Session 2

MONDAY, APRIL 6

Adipose Tissues

Rinke Stienstra, Wageningen University, Netherlands
Obesity and Diabetes: An Immunometabolic Perspective

Paul Cohen, Rockefeller University, USA
Adipose Tissue Crosstalk in Health and Disease

Jun Wu, University of Michigan, USA
Immune-Beige Adipocyte Communication

Evanna Mills, Dana-Farber Cancer Institute, USA
Thermogenic Fat as a Modifier of the Immune Response

Short Talk(s) Chosen from Abstracts

Liver

Michael Karin, University of California, San Diego, USA
Understanding NASH

Paolo Sassone-Corsi, University of California, Irvine, USA
Circadian Control of System Metabolism

Morris J. Birnbaum, Pfizer Inc., USA
Drug Development

Short Talk(s) Chosen from Abstracts

Poster Session 3

TUESDAY, APRIL 7

Muscle

Helga Ellingsgaard, Centre for Physical Activity Research, Copenhagen, Denmark
IL-6 and Metabolic Regulation

Mark A. Febbraio, Monash Institute of Pharmaceutical Sciences, Monash University, Australia
IC7 Protection from Metabolic Disease

James G. Tidball, University of California, Los Angeles, USA
Immune Cell Regulation of Muscle Wasting and Regeneration

Amy J. Wagers, Harvard University, USA
Stem Cell Metabolism and Muscle Regeneration

Short Talk(s) Chosen from Abstracts

Cardiovascular

Eicke Latz, University of Bonn, Germany
Metabolic and Epigenomic Reprogramming of Immune Cells during Atherogenesis

Gwendalyn J. Randolph, Washington University, USA
Immunity and Lipoprotein Trafficking

Matthias Nahrendorf, Massachusetts General Hospital, USA
Macrophage Impacts on Cardiovascular Health and Disease

Short Talk Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

WEDNESDAY, APRIL 8

Departure