

# Integrating Metabolism and Immunity (F1-2021)

Organizer(s): Marc Y. Donath, Tom Thuren, Bruce M. Spiegelman and Diane Mathis

Keystone Resort, Keystone, CO • January 24 - January 28, 2021

Sponsored by AbbVie Inc., Cell Research and Merck & Co., Inc.

Abstract Deadline: October 14, 2020 • Early Registration Deadline: December 1, 2020

---

## Sunday, January 24

### Arrival and Registration

Welcome Mixer

---

## Monday, January 25

Breakfast

### Welcome and Keynote Address

**Bruce M. Spiegelman**, Harvard Medical School  
*Adipose Inflammation: Many Players and Many Regulatory Functions*

### Immunometabolism: The Metabolic

#### View

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

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

**Ana Domingos**, University of Oxford  
*Sympathetic Neuroimmunity for Obesity*

#### Short Talks Chosen from Abstracts

On Own for Lunch

Poster Setup

Poster Viewing

### Workshop 1

#### Short Talks Chosen from Abstracts

### Immunometabolism: The Immunologist

#### View

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

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

**Ruth A. Franklin**, Yale School of Medicine  
*Stress Responses and Disease Tolerance*

#### Short Talks Chosen from Abstracts

Social Hour with Lite Bites

---

### Poster Session 1

---

## Tuesday, January 26

Breakfast

### Clinical Translation: Unmet Needs

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

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

**Tom Thuren**, Novartis Pharmaceuticals  
*Requirement to Implement Anti-Inflammatory Treatment of Cardiometabolic Diseases*

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

#### Short Talks Chosen from Abstracts

On Own for Lunch

Poster Setup

Poster Viewing

### Insulin Production and Action

**Alan R. Saltiel**, University of California, San Diego  
*Inflammatory Links Between Obesity and Energy Metabolism*

**Bruce Verchere**, University of British Columbia  
*Islet Amyloid Polypeptide and Islet Inflammation*

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

#### Short Talks Chosen from Abstracts

Social Hour with Lite Bites

---

### Poster Session 2

---

## Wednesday, January 27

Breakfast

### Adipose Tissues

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

**Paul Cohen**, Rockefeller University  
*Local Cellular Crosstalk in Adipose Tissue Homeostasis*

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

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

#### Short Talks Chosen from Abstracts

On Own for Lunch

Poster Setup

Poster Viewing

### Liver

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

**Paolo Sassone-Corsi**, University of California, Irvine  
*Communicating Clocks: Circadian Metabolism and Epigenetics*

**Morris J. Birnbaum**, Pfizer Inc.  
*Therapeutic Approaches for the Treatment of Non-Alcoholic Fatty Liver Disease*

#### Short Talks Chosen from Abstracts

Social Hour with Lite Bites

---

### Poster Session 3

---

## Thursday, January 28

Breakfast

### Muscle

**Helga Ellingsgaard**, Centre for Physical Activity Research, Copenhagen  
*IL-6 Is a Physiological Regulator of Gastric Emptying and Adipose Tissue Mass in Humans*

**Mark A. Febbraio**, Monash Institute of Pharmaceutical Sciences  
*Treatment of Type 2 Diabetes and Age-Related Sarcopenia with the Designer Cytokine ICT7C*

**Speaker to be Announced**  
**Amy J. Wagers**, Harvard University  
*Stem Cell Metabolism and Muscle Regeneration*

#### Short Talks Chosen from Abstracts

On Own for Lunch

### Workshop 2

#### Short Talks Chosen from Abstracts

### Cardiovascular

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

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

#### Speaker to be Announced

#### Short Talks Chosen from Abstracts

### Meeting Wrap-Up: Outcomes and Future

### Directions (Organizers)

Social Hour with Lite Bites

Entertainment

---

## Friday, January 29

Departure