

# Keystone Symposia in Santa Fe

# Myeloid Cells

Eldorado Hotel | Santa Fe, New Mexico, USA | February 24–28 2019

*Scientific Organizers:*

**Tiffany Horng**, Harvard School of Public Health, USA

**Gregory M. Barton**, University of California, Berkeley, USA

**Ajay Chawla**, University of California, San Francisco, USA

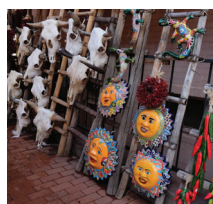
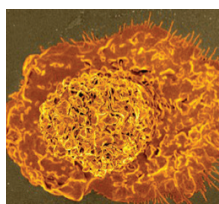
*Myeloid cells regulate tissue homeostasis, immunity and inflammation, whereas their dysregulation contributes to cancer, metabolic diseases, inflammatory diseases and degenerative diseases. This Keystone Symposia conference will cover areas of long-standing interest as well as topical areas in the field of myeloid cell biology, including ontogeny and tissue specification, myeloid cell activation, immunometabolism, immunity and infection, mucosal immunity and cancer immunology. Multiple myeloid cell populations will be discussed, including tissue-resident macrophages, monocytes, dendritic cells and neutrophils. The conference will highlight the diverse approaches being used to study myeloid cell biology, including genomic analyses, single-cell profiling, imaging and metabolic profiling. Both basic and translational aspects of myeloid cell research will be covered. The goals of the conference are to share recent advances in this rapidly evolving field, stimulate interactions between interdisciplinary groups of scientists, and define future areas of investigation in myeloid cell research.*

*Plenary Session Topics:*

- Innate Immune Receptors and Myeloid Cell Activation
- Workshop 1: Myeloid Cell Activation
- Myeloid Cells in Metabolism
- Myeloid Cells in Metabolic and Inflammatory Diseases
- Macrophage Specification in the Tissue Environment
- Myeloid Cells in Immunity and Infection
- Myeloid Cells in Mucosal Immunity
- Myeloid Cells in Cancer
- Workshop 2: Myeloid Cells in Health and Disease
- Tissue-Resident Macrophages

*Abstract Deadline: Nov 28, 2018; Discounted Registration Deadline: Jan 9, 2019*

Visit [www.keystonesymposia.org/19B7](http://www.keystonesymposia.org/19B7) for more details.



**KEYSTONE SYMPOSIA™**  
on Molecular and Cellular Biology  
*Accelerating Life Science Discovery*  
a 501(c)(3) nonprofit educational organization

# KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

## Myeloid Cells (B7)

February 24-28, 2019 • Eldorado Hotel & Spa • Santa Fe, New Mexico, USA

Scientific Organizers: Tiffany Horng, Gregory M. Barton and Ajay Chawla

Sponsored by Boehringer Ingelheim Pharmaceuticals, Inc., Genentech, Inc. and Merck & Co., Inc.

Abstract & Scholarship Deadline: October 24, 2018 / Abstract Deadline: November 28, 2018 / Discounted Registration Deadline: January 9, 2019

### SUNDAY, FEBRUARY 24

#### Arrival and Registration

### MONDAY, FEBRUARY 25

#### Welcome and Keynote Address

**Ruslan Medzhitov**, HHMI/Yale University School of Medicine, USA  
*Myeloid Cells in Control of Homeostasis, Inflammation, and Disease*

#### Innate Immune Receptors and Myeloid Cell Activation

**Vishva M. Dixit**, Genentech, USA  
*Molecular Regulation Innate Immune Responses*

**Thirumala-Devi Kanneganti**, St. Jude Children's Research Hospital, USA  
*Molecular Targets for the Treatment of Inflammatory and Infectious Diseases.*

**Jonathan C. Kagan**, Boston Children's Hospital, USA  
*Innate Immune Signaling Pathways*

**Short Talk(s) Chosen from Abstracts**

#### Poster Session 1

#### Workshop 1: Myeloid Cell Activation

**Short Talks Chosen from Abstracts**

#### Myeloid Cells in Metabolism

**Tiffany Horng**, ShanghaiTech University, China  
*Macrophage Metabolism*

**Amira Klip**, Hospital for Sick Children, Canada  
*Macrophage and Muscle Metabolic and Functional Crosstalk*

**Ajay Chawla**, University of California, San Francisco, USA  
*Macrophages in Systemic Metabolism*

**Short Talk(s) Chosen from Abstracts**

### TUESDAY, FEBRUARY 26

#### Myeloid Cells in Metabolic and Inflammatory Diseases

**Peter Tontonoz**, University of California, Los Angeles, USA  
*Anti-Inflammatory Signaling Pathways and the Control of Adipose Thermogenesis*

**Catherine Hedrick**, La Jolla Institute for Allergy and Immunology, USA  
*Myeloid Cells in Cancer*

**Andrés Hidalgo**, Fundación CNIC, Spain  
*Strategies of Neutrophils during Vascular Inflammation*

**Kathryn J. Moore**, New York University Medical Center, USA  
*Macrophages in Metabolic and Inflammatory Diseases*

**Short Talk(s) Chosen from Abstracts**

#### Macrophage Specification in the Tissue Environment

**Frederic Geissmann**, Memorial Sloan Kettering Cancer Center, USA  
*Ontogeny of Tissue Resident Macrophages*

**Stephen T. Smale**, University of California, Los Angeles, USA  
*Selective Transcriptional Responses of Macrophages to Environmental Stimuli*

**Ido Amit**, Weizmann Institute, Israel  
*The Power of ONE: Immunology in the Age of Single Cell Genomics*  
**Short Talk(s) Chosen from Abstracts**

#### Poster Session 2

### WEDNESDAY, FEBRUARY 27

#### Myeloid Cells in Immunity and Infection

**Paul Kubes**, University of Calgary, Canada  
*Myeloid Cell Dynamics In Vivo*

**Jenny P.Y. Ting**, University of North Carolina at Chapel Hill, USA  
*Myeloid Cells in Immunity and Infection*

**Chandrashekhar Pasare**, Cincinnati Children's Hospital Medical Center, USA  
*Myeloid Cells in Control of Adaptive Immunity*

**Denise M. Monack**, Stanford University, USA  
*Myeloid Cells and Bacterial Pathogenesis*

**Short Talk(s) Chosen from Abstracts**

#### Myeloid Cells in Mucosal Immunity

**Gregory M. Barton**, University of California, Berkeley, USA  
*Determinants of CD4 T Cell Responses to the Microbiota*

**Yasmine Belkaid**, NIAID, National Institutes of Health, USA  
*Myeloid Cells in Control of Mucosal Immunity*

**Daniel Mucida**, Rockefeller University, USA  
*Tissue Adaptation: Implications Gut Immunity and Tolerance*  
**Short Talk(s) Chosen from Abstracts**

#### Poster Session 3

### THURSDAY, FEBRUARY 28

#### Myeloid Cells in Cancer

**Ira Mellman**, Genentech, Inc., USA  
*Cancer Immunotherapy*

**Judith A. Varner**, University of California, San Diego, USA  
*Tissue Resident and Bone Marrow Derived Macrophage Contributions to Cancer Progression*

**Matthew F. Krummel**, University of California, San Francisco, USA  
*Imaging Myeloid Cell Dynamics in the Tumor Microenvironment*

**Steven F. Ziegler**, Benaroya Research Institute, University of Washington School of Medicine, USA  
*Regulation of Breast Cancer Progression by Myeloid Cell-Derived TSLP*

**Short Talk(s) Chosen from Abstracts**

#### Workshop 2: Myeloid Cells in Health and Disease

**Short Talks Chosen from Abstracts**

#### Tissue Resident Macrophages

**Marco Colonna**, Washington University School of Medicine, USA  
*Microglia*

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**Kaoru Saijo**, University of California, Berkeley, USA

*Microglia in Early Brain Development*

**Michael H. Sieweke**, Centre d'Immunologic Marseille-Luminy, France

*Macrophage Self-Renewal*

**Short Talk Chosen from Abstracts**

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

**FRIDAY, MARCH 1**

**Departure**