

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Regulation and Dysregulation of Innate Immunity in Disease (B9)

February 18-22, 2018 • Fairmont Hotel Vancouver • Vancouver, British Columbia, Canada

Scientific Organizers: Lynda M. Stuart, Kathryn J. Moore and Kate L. Jeffrey

Supported by the Directors' Fund

Abstract & Scholarship Deadline: October 18, 2017 / Abstract Deadline: November 16, 2017 / Discounted Registration Deadline: December 18, 2017

SUNDAY, FEBRUARY 18

Arrival and Registration

MONDAY, FEBRUARY 19

Welcome and Keynote Address

Kate A. Fitzgerald, University of Massachusetts Medical School, USA
Innate Immunity: Protecting the Sanctity of the Cytosol and the Host

Looking for More: Screening in the Innate Immune System

Nir Hacohen, Massachusetts General Hospital, USA
Innate Immune Cells and Pathways in Human Disease

Lynda M. Stuart, Bill & Melinda Gates Foundation, USA
Transposon Mutagenesis Screens for Host Resistance

Kathryn E. Holt†, University of Melbourne, Australia
Microbial Genomic Screens

Short Talk(s) Chosen from Abstracts

Gene Regulatory Networks in Innate Immunity

Julian C. Knight, University of Oxford, UK
Gene-on-Gene – Insights into Regulation of Innate Immune Responses Leveraging Human Genetic Variation

Alex K. Shalek, Massachusetts Institute of Technology, USA
Learning More by Looking at Less – Single Cell Analyses of Pathogen Responses

Matthew L. Albert, Genentech, Inc., USA
Geographical Variations in the Human Innate Immune Response to Pathogens

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, FEBRUARY 20

Epigenetic Regulation of Host Defense

Kate L. Jeffrey, Massachusetts General Hospital, Harvard Medical School, USA
Epigenome Readers in Innate Immunity and IBD

Gioacchino Natoli, IEO, European Institute of Oncology, Italy
Genomic Landscapes in Inflammation

Mélanie Hamon, Institut Pasteur, France
Listeria and Strep Induced Epigenetic Alterations

Stephen T. Smale, University of California, Los Angeles, USA
Macrophage Epigenomics

Short Talk(s) Chosen from Abstracts

Innate Defense at the Mucosa

Ramnik Xavier, Massachusetts General Hospital and Broad Institute, USA
Different LPS Exposures Instructs Immune Fate

P'ng Loke, New York University School of Medicine, USA
Tissue and M2 Macrophages

Daniel Mucida, Rockefeller University, USA
Tissue Adaptation: Implications for Gut Immunity and Tolerance

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, FEBRUARY 21

Entraining Immunity

Mihai G. Netea, Radboud University, Netherlands
Trained Immunity: A Memory for Innate Host Defense

Judith E. Allen, University of Manchester, UK
Macrophage Education on Site

Eicke Latz, University of Bonn, Germany
Cholesterol and Trained Immunity

Musa M. Mhlanga, University of Cape Town, South Africa
Trained Immunity, lncRNA and 3D Chromatin Topology

Short Talk(s) Chosen from Abstracts

Metabolic Control of Innate Immune Cells

Kathryn J. Moore, New York University Medical Center, USA
Micro-RNAs Coordinate the Physiology of Innate Immune Cells

Edward J. Pearce, Max Planck Institute of Immunobiology and Epigenetics, Germany
Metabolic Control of Myeloid Responses

Javier E. Irazoqui, University of Massachusetts Medical School, USA
TFEB: From Lysosome Storage to Innate Defense

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, FEBRUARY 22

In the Balance: Immunodeficiencies and Auto-Inflammation

Catherine (Lynn) Hedrick†, La Jolla Institute for Allergy and Immunology, USA
Human Monocyte Heterogeneity as Revealed by High Dimensional Mass Cytometry

Andrew Oberst, University of Washington, USA
Inflammatory Cell Death in Innate Immunity

Kim Newton, Genentech, Inc., USA
RIP Kinases as Therapeutic Targets

Virginia Pascual, Cornell University, USA
Talk Title to be Announced

Short Talk(s) Chosen from Abstracts

Pyroptosis, Necroptosis and Inflammatory Death

Thirumala-Devi Kanneganti, St. Jude Children's Research Hospital, USA
Inflammasome and Inflammation

Peter Vandenabeele, VIB, Ghent University, Belgium
RIP Kinase in Inflammation at Mucosal Surfaces

Vishva M. Dixit, Genentech, Inc., USA
Gasdermin-D: How to Punch Holes in a Dying Cell

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

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FRIDAY, FEBRUARY 23

Departure