

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 Maria Stuart, Kathryn J. Moore and Kate L. Jeffrey

Supported by the Directors' Fund

Abstract & Scholarship Deadline: / Abstract Deadline: / Discounted Registration Deadline:

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
A CRISPR Approach: Exploring Innate Immunity through Gene Editing

Deborah Hung[†], Massachusetts General Hospital, USA
Chemical Genetics to Probe Host and Pathogen

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

Short Talk(s) Chosen from Abstracts

Gene Regulatory Networks in Innate Immunity

Julian C. Knight[†], University of Oxford, UK
Gene-on-Gene – Regulation of Innate Immune Responses

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
Epigenetic Immunity to Viruses

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

Alexander Tarakhovsky[†], Rockefeller University, USA
Therapeutic Manipulation of the Epigenome

Rab K. Prinjha[†], GlaxoSmithKline, UK
Talk Title to be Announced

Short Talk(s) Chosen from Abstracts

Entraining Immunity

Mihai G. Netea[†], Radboud University, Netherlands
Innate Immune Memory

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

P'ng Loke[†], New York University School of Medicine, USA
Worms, Bacteria and Type 2 Immunity

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, FEBRUARY 21

Innate Defense at the Mucosa

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

Eric G. Pamer[†], Memorial Sloan Kettering Cancer Center, USA
Innate Immune Education from Commensal Bacteria

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

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

Eicke Latz[†], University of Bonn, Germany
Cyclodextrin and Macrophage Control of Atherosclerosis

Greg E. Lemke[†], The Salk Institute for Biological Studies, USA
TAM Receptors and Micro-Glial Physiology

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

Virginia Pascual[†], Baylor Research Institute, USA
Innate Control of Self

Jean-Laurent Casanova[†], Rockefeller University, USA
Mendelian Traits and Innate Immune Pathways

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

Short Talk(s) Chosen from Abstracts

Pyroptosis, Necroptosis and Inflammatory Death

Brent R. Stockwell[†], Columbia University, USA
Targeting Death through Small Molecules

Andrew Oberst[†], University of Washington, USA
MLKL and Inflammatory Death

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

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

FRIDAY, FEBRUARY 23

Departure