

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Transcription and RNA Regulation in Inflammation and Immunity (B1)

February 2-5, 2019 • Granlibakken Tahoe • Tahoe City, California, USA

Scientific Organizers: Silvia Monticelli, K. Mark Ansel, Sarah Teichmann and Giocchino Natoli

Supported by the Directors' Fund

Abstract & Scholarship Deadline: October 4, 2018 / Abstract Deadline: October 30, 2018 / Discounted Registration Deadline: November 29, 2018

SATURDAY, FEBRUARY 2

Arrival and Registration

SUNDAY, FEBRUARY 3

Welcome and Keynote Address

Stephen T. Smale, University of California, Los Angeles, USA
Bridging the Layers: An Integrative Approach to Transcriptional Regulation of Inflammation

Transcriptional Mechanisms of Immune Cell Development

Ellen V. Rothenberg, California Institute of Technology, USA
Transcriptional Control of Lineage Choice in Lymphocyte Commitment

Dan R. Littman, HHMI/New York University School of Medicine, USA
Interplay between Immune System Development and the Intestinal Microbiome

Steffen Jung, Weizmann Institute of Science, Israel
Regulatory Circuits in Myeloid Cell Development

Short Talk(s) Chosen from Abstracts

Workshop 1

Short Talks Chosen from Abstracts

Single Cell Approaches to Immune System Complexity

Sarah Teichmann, Wellcome Trust Sanger Institute, UK
Single-Cell Transcriptional Analyses in Adaptive Immunity

Ido Amit, Weizmann Institute, Israel
Immunology in the Age of Single Cell Genomics

Muzlifah A. Haniffa, Newcastle University, UK
Functional Heterogeneity of Human Mononuclear Phagocytes

Short Talk Chosen from Abstracts

Poster Session 1

MONDAY, FEBRUARY 4

Transcriptional and Epigenomic Control of Immune Responses

Anjana Rao, La Jolla Institute for Allergy and Immunology, USA
DNA Methylation Dynamics in Immune Cells

James E. Bradner[†], Novartis Institutes for BioMedical Research, USA
Harnessing Regulatory Mechanisms for Innovative Drug Design

Giocchino Natoli, Humanitas University, Italy
The Macrophage Epigenome and Inflammatory Gene Expression

Christopher K. Glass, University of California, San Diego, USA
Genetic Variability and Inflammation

Short Talk(s) Chosen from Abstracts

Workshop 2: The 3D-Genome: Long-Range Interactions in Immune System Development and Function

Short Talks Chosen from Abstracts

Pathologic Dysregulation of Transcription

Rab K. Prinjha, GlaxoSmithKline, UK
Epigenetic Drug Discovery

Alex Marson, University of California, San Francisco, USA
Integrative Genomics and Genome Engineering in Immunity

Andrea Schietinger, Memorial Sloan Kettering Cancer Center, USA
Transcription Factors and Epigenetic Programs in Cancer Immunology

Short Talk Chosen from Abstracts

Poster Session 2

TUESDAY, FEBRUARY 5

Non-Coding Genome and Post-Transcriptional Control in Immunity

K. Mark Ansel, University of California, San Francisco, USA
Mapping RNA Interfaces, Fate and Function in Lymphocytes

Silvia Monticelli, Institute for Research in Biomedicine, Switzerland
Transcriptional and Posttranscriptional Regulation of Human T Lymphocyte Pathogenic Potential

Jorge Henao-Mejia, University of Pennsylvania and Children's Hospital of Philadelphia, USA
Long Non-Coding RNAs

Kate A. Fitzgerald, University of Massachusetts Medical School, USA
Long Non-Coding RNAs

Short Talk(s) Chosen from Abstracts

Workshop 3

Short Talks Chosen from Abstracts

RNA Binding Proteins and RNA Methylation in Immunity

Martin Turner, Babraham Institute, UK
RNA-Binding Proteins as Regulatory Elements of the Immune System

Vigo Heissmeyer, Ludwig-Maximilians-University of Munich, Germany
Cooperative Regulation of T Cell Fate Decisions by RNA-Binding Proteins

Richard A. Flavell, HHMI/Yale University School of Medicine, USA
m6A mRNA Methylation in T Cell Homeostasis

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

WEDNESDAY, FEBRUARY 6

Departure