



Join Keystone Symposia
for the 2016 conference on:

Cytokine JAK-STAT Signaling in Immunity and Disease

January 10–14, 2016

Sheraton Steamboat Resort | Steamboat Springs, Colorado | USA

Scientific Organizers:

Curt M. Horvath, John J. O'Shea and Stephanie S. Watowich

This meeting, coinciding with the 25th year of the discovery of JAK-STAT signaling, will couple invited speakers who have made significant contributions to allied disciplines with cytokine JAK-STAT veterans, with ample opportunities for short talks selected from submitted abstracts. As JAK-STAT pathways produce both common and unique phenotypes critical for a vast range of biological phenomena, the basic understanding of how these signal transduction cascades are regulated, function and integrate with additional cellular responses has been continuously refined by discoveries of general and pathway-specific mechanisms.

Session Topics:

- Receptor Activation and STAT Signaling
- Chromatin and Gene Regulation
- Immune Regulation
- Inflammation
- Stem Cells and Development
- Infection and Diseases
- Metabolic Disease and Cancer
- Cancer Microenvironment and Therapeutics
- Workshop 1: All Things Interferon
- Workshop 2: Therapeutic Targeting of JAK-STAT Pathways



Submitting an abstract is a great way of participating in the conference through poster presentation and possible selection for a short talk.

Scholarship & Discounted Abstract Deadline: Sep 21, 2015

Abstract Deadline: Oct 20, 2015

Discounted Registration Deadline: Nov 10, 2015

For additional details, visit www.kestonesymposia.org/16A2.

KEYSTONE SYMPOSIA™
on Molecular and Cellular Biology
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SUNDAY, JANUARY 10

Arrival and Registration

MONDAY, JANUARY 11

Welcome and Keynote Address

John J. O'Shea, NIAMS, National Institutes of Health, USA
Jaks and Stats in Immunity and Disease

Receptor Activation and STAT Signaling

K. Christopher Garcia, Stanford University School of Medicine, USA
Tuning Cytokine Receptor Signaling

Andrew Brooks, University of Queensland Diamantina Institute, Australia
Mechanism of JAK2 Activation by the Growth Hormone Receptor

Jeff Babon, Walter and Eliza Hall Institute of Medical Research, Australia
Inhibition of JAK/STAT Signaling by the SOCS Family of Proteins

Short Talk(s) Chosen from Abstracts

Workshop 1: All Things Interferon

Short Talks Chosen from Abstracts

Chromatin and Gene Regulation

Sandra Pellegrini, Institut Pasteur, France
Fine Tuning of Type I Interferon Response in Humans and Mice

Uwe Vinkemeier, University of Nottingham Medical School, UK
STAT Protein Polymerization and its Role in Cytokine-Dependent Gene Transcription

Jennifer Grandis, University of California, San Francisco, USA
Targeting STAT3 Signaling in Head and Neck Cancer

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, JANUARY 12

Immune Regulation

Stuart G. Tangye, Garvan Institute of Medical Research, Australia
Regulation of Lymphocyte Activation and Effector Functions

Susan M. Kaech, Yale University School of Medicine, USA
Fattening Up T Cell Memory

Mark H. Kaplan, Indiana University School of Medicine, USA
Transcriptional Regulation of T Helper Cell Development

Joseph E. Craft, Yale University, USA
STAT Regulation of Follicular T Helper Cell Development and Differentiation

Short Talk(s) Chosen from Abstracts

Inflammation

Stephanie S. Watowich, University of Texas MD Anderson Cancer Center, USA
Innate Immune Regulation by STAT3

Lionel B. Ivashkiv, Hospital for Special Surgery, New York, USA
Regulation of Macrophage Activation by STAT Signaling and Epigenetic Mechanisms

Simon A. Jones, Cardiff University School of Medicine, UK
Interleukin-6 Responses in Inflammation and Immunity

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, JANUARY 13

Stem Cells and Development

Alessandra Sacco, Sanford-Burnham-Prebys Medical Discovery Institute, USA
"STAT3 Signaling Regulates Muscle Stem Cell Function"

Christine J. Watson, University of Cambridge, UK
The Role of Stat3 in Cell Fate Switching in Mammary Gland

Speaker to be Announced

Erika A. Bach, New York University School of Medicine, USA
JAK STAT Signaling in Drosophila Tumor Models

Short Talk(s) Chosen from Abstracts

Infection and Disease

Thomas A.F. Decker, Vienna Biocenter, University of Vienna, Austria
JAK STAT Cooperation with the NFkB Pathway in the Regulation of Host Responses and Innate Immunity to Bacteria

Curt M. Horvath, Northwestern University, USA
Activation and Inhibition Mechanisms in IFN-JAK-STAT Signaling and Innate Antiviral Immunity

David E. Levy, New York University School of Medicine, USA
Transcriptional and Non-Transcriptional Functions of STAT Proteins

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, JANUARY 14

Metabolic Disease and Cancer

Ajay Chawla, University of California, San Francisco, USA
Innate Control of Metabolism

Ross L. Levine, Memorial Sloan-Kettering Cancer Center, USA
Role of JAK-STAT Pathway Activation in MPN Pathogenesis and Therapeutic Response

Andrew Larner, Virginia Commonwealth University, USA
STAT3 Rapidly Exits and Re-Enters the Mitochondria in Cells Exposed to Oxidative Stress or Cytokines

Tony Tiganis, Monash University, Australia
PTPs and STATs in Obesity and Cancer

Short Talk(s) Chosen from Abstracts

Workshop 2: Therapeutic Targeting of JAK-STAT Pathways

Short Talks Chosen from Abstracts

Cancer Microenvironment and Therapeutics

Veronika Sexl, University of Veterinary Medicine, Vienna, Austria
JAK-STAT in NK cells: For the Better or Worse in Tumour Surveillance?

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George R. Stark, Cleveland Clinic, USA

Novel Paradigms for STAT-mediated Gene Regulation.

Giorgio G. Inghirami, Weill Cornell Medical College, USA

The Pathogenetic Role of JAK/STAT Signaling Pathway in T-Cell Lymphoma

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

FRIDAY, JANUARY 15

Departure