



Join Keystone Symposia
for the 2016 conference on:

NF- κ B and MAP Kinase Signaling in Inflammation

March 13–17, 2016

Whistler Conference Centre | Whistler, British Columbia | Canada

Scientific Organizers:

Steven C. Ley, Zhijian 'James' Chen and Jenny P.Y. Ting

Joint with the conference on Ubiquitin Signaling

Gene expression during inflammatory responses is controlled by NF- κ B transcription factors, IRF transcription factors, and each of the major MAP kinase subtypes (ERK1/2, JNK and p38) in innate immune cells. This symposium will focus on the role of ubiquitination in regulating NF- κ B and MAP kinase activation, and how NF- κ B-dependent transcription is coordinated with IRF activation and MAP kinase signaling to control innate immunity. Progress in the therapeutic targeting of NF- κ B and MAP kinase activation pathways for treatment of chronic inflammatory diseases and cancer will also be discussed.

Session Topics:

- NF-kappaB Signaling in Cancer
 - NF-kappaB Signaling in Immunity
 - Ubiquitination-Dependent Modulation of NF- κ B Signaling I & II (Joint)
 - Transcriptional Regulation in Inflammation
 - NLR Signaling to NF-kappaB and IRF
 - MAP Kinase Signaling in Inflammation
 - Therapeutic Targeting of Inflammation
 - Meeting Wrap-Up: Outcomes and Future Directions
- Plus three workshops*



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: Nov 11, 2015

Abstract Deadline: Dec 14, 2015

Discounted Registration Deadline: Jan 13, 2016

For additional details, visit www.keystonesymposia.org/16X4.

KEYSTONE SYMPOSIA™
on Molecular and Cellular Biology

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KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

NF-kappaB and MAP Kinase Signaling in Inflammation (X4)

Scientific Organizers: Steven C. Ley, Zhijian 'James' Chen and Jenny P.Y. Ting

Sponsored by Genentech, Inc.

Ubiquitin Signaling (X3)

Scientific Organizers: Philip Cohen, Michael Rape and Titia K. Sixma

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SUNDAY, MARCH 13

Arrival and Registration

MONDAY, MARCH 14

Keynote Session (Joint)

*Steven C. Ley, Francis Crick Institute, UK

Ning Zheng, University of Washington, USA

Targeting Regulatory Enzymes in Ubiquitin Signaling

Louis M. Staudt, NCI, National Institutes of Health, USA

Blocking NF-kappaB Activation as a Therapeutic Approach in Cancer

NF-kappaB Signaling in Cancer (X4)

Michael Karin, University of California, San Diego, USA

Liver Cancer and IL-6 Signaling

Daniel Krappmann, Helmholtz Zentrum Muenchen, Germany

CARMA1-BCL10-MALT1 Signaling in Lymphoma

Dinis P. Calado, Francis Crick Institute, UK

NF-kappaB Signaling in Mature B Lymphocyte Derived Malignancies

Regulation of the Ubiquitin System by Deubiquitylases and Phosphorylation (X3)

Titia K. Sixma, Netherlands Cancer Institute, Netherlands

Regulation of DUBs by Protein-Protein Interaction

Richard J. Youle, NINDS, National Institutes of Health, USA

Regulation of Parkin by PINK1 and Phospho-Ubiquitin

Cynthia Wolberger, Johns Hopkins University School of Medicine, USA

Interaction of E2 Conjugating Enzymes with DUBs

Short Talk(s) Chosen from Abstracts

Workshop 1 (X4)

Short Talks Chosen from Abstracts

Workshop 1: Structural Biology and Biochemistry of Ubiquitylation (X3)

Short Talks Chosen from Abstracts

NF-kappaB Signaling in Immunity (X4)

Manolis Pasparakis, University of Cologne, Germany

Regulation of Skin Immunity by the IKK Complex

Steve D. Gerondakis, Monash University, Australia

cRel Regulation of Immunity

Xiaoxia Li, Cleveland Clinic Foundation, USA

IRAK Regulation of NF-kappaB and MAP Kinase Activation

Short Talk Chosen from Abstracts

Role of Ubiquitylation in Control of Autophagy (X3)

James H. Hurley, University of California, Berkeley, USA

Mechanistic and Structural Insights into Autophagy Initiation

J. Wade Harper, Harvard Medical School, USA

Signaling through the Ubiquitin and Autophagy Systems

Ivan Dikic, Goethe University Medical School, Germany

Ubiquitin Regulation of Selective Autophagy

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, MARCH 15

Ubiquitination-Dependent Modulation of NF-kappaB Signaling I (Joint)

Zhijian James Chen, HHMI/University of Texas Southwestern

Medical Center, USA

K63-Linked Ub Chains

Rudi Beyaert, Ghent University - VIB, Belgium

Regulation of NF-kappaB and MAP Kinase Activation by A20 and MALT1

David Komander, Lister Institute of Preventive medicine, UK

Otulin Regulation of NF-kappaB Activation

Philip Cohen, University of Dundee, UK

Mixed K63/Linear-Ub Chains

Short Talk(s) Chosen from Abstracts

Poster Session 2

Workshop 2 (X4)

Short Talks Chosen from Abstracts

Workshop 2: Physiology of Ubiquitin-Dependent Signaling (X3)

Short Talks Chosen from Abstracts

Transcriptional Regulation in Inflammation (X4)

Alan Aderem, Center for Infectious Disease Research, USA

A Systems Approach to Dissecting Immunity

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

Global Analysis of Transcriptional Regulation in Inflammation

Irina A. Udalova, University of Oxford, UK

IRF5 Regulation of Inflammatory Macrophages

Short Talk Chosen from Abstracts

Large Machines (X3)

Andreas Martin, University of California, Berkeley, USA

The Proteasome

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Nicolas H. Thomä, Friedrich Miescher Institute for Biomedical Research, Switzerland

Cop9 Signalosome: Structure, Function and Regulation

Raymond J. Deshaies, California Institute of Technology, USA
Regulation of CRL Assembly: The Adaptive Exchange Hypothesis

Short Talk Chosen from Abstracts

WEDNESDAY, MARCH 16

NLR Signaling to NF-kappaB and IRF (X4)

Vishva M. Dixit, Genentech, Inc., USA
Novel Pathways of Inflammasome Activation

Jenny P.Y. Ting, University of North Carolina at Chapel Hill, USA
Inflammasomes and Metabolic Disorders

Feng Shao, National Institute of Biological Sciences, China
Posttranslational Modifications of the NF-kB and MAP Kinase Signaling by Bacterial Pathogens

Thirumala-Devi Kanneganti, St. Jude Children's Research Hospital, USA
Regulators of Inflammatory Responses

Short Talk(s) Chosen from Abstracts

Ubiquitylation and Human Disease (X3)

Michael Rape, University of California, Berkeley, USA
Developmental Diseases

Dario Alessi, University of Dundee, UK
Control of Blood Pressure

Heran Darwin, New York University School of Medicine, USA
Proteasomal Regulation of Mycobacterium tuberculosis Pathogenesis

Jeffery S. Cox, University of California, San Francisco, USA
Ubiquitin and Tuberculosis

Short Talk(s) Chosen from Abstracts

Workshop 3 (X4)

Short Talks Chosen from Abstracts

Workshop 3: The Interplay between Ubiquitylation and Phosphorylation in Cell Regulation (X3)

Short Talks Chosen from Abstracts

MAP Kinase Signaling in Inflammation (X4)

Steven C. Ley, Francis Crick Institute, UK
Regulation of Inflammation by TPL-2 MAP 3-Kinase

Ana Cuenda, Spanish National Biotechnology Centre, Spain
Regulation of Inflammation by p38gamma/delta

Roger J. Davis, HHMI/University of Massachusetts Medical School, USA
Role of JNK in Metabolic Stress Signaling

Short Talk Chosen from Abstracts

Structural Analysis of E3 Ligases and DUBs (X3)

Rachel Klevit, University of Washington, USA
RBR E3 Ligases

Brenda A. Schulman, St. Jude Children's Research Hospital, USA
Cullin-RING E3 Ligases

Mark Gallop, Nurix, Inc., USA
Small Molecule Activators of SCF E3 Ubiquitin Ligases

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, MARCH 17

Therapeutic Targeting of Inflammation (X4)

Stefan Knapp, University of Oxford, UK
Targeting Bromodomains in Inflammation

Bartholomew J. Votta, GlaxoSmithKline, USA
Therapeutic Potential of RIP2 Kinase Inhibitors

Vikram R. Rao, Pfizer, USA
The Role of IRAK4 in NFkB and MAPK Signaling: Implications for Drug Development

Short Talks Chosen from Abstracts

Small Molecules and Therapeutics (X3)

Frank Sicheri, Lunenfeld-Tanenbaum Research Institute, Canada
CDC34 Inhibitors

Ingrid E. Wertz, Genentech, Inc., USA
USP7

Zhihao Zhuang, University of Delaware, USA
Targeting the USP1 Deubiquitinase Complex with Small Molecule Allosteric Inhibitor in DNA Damage Response

Short Talks Chosen from Abstracts

Ubiquitin-Dependent Modulation of NF-kappaB Signaling II (Joint)

Michaela U. Gack, Harvard Medical School, USA
Regulation of Antiviral Signalling by TRIM25

Pascal Meier, Institute of Cancer Research, UK
Tipping the Response to TNF in Favor of Death

Shigeki Miyamoto, University of Wisconsin, Madison, USA
NF-kappaB Activation by DNA Damage

Shao-Cong Sun, University of Texas MD Anderson Cancer Center, USA
DUB Regulation of Immunity

Meeting Wrap-Up: Outcomes and Future Directions

Philip Cohen, University of Dundee, UK

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FRIDAY, MARCH 18

Departure