

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

The Ubiquitin System: From Basic Science to Drug Discovery (A2)

January 7-12, 2014 • Big Sky Resort • Big Sky, Montana, USA

Scientific Organizers: Ingrid E. Wertz and David Komander

Supported by the Directors' Fund

Abstract & Scholarship Deadline: September 12, 2013 / Abstract Deadline: October 10, 2013 / Discounted Registration Deadline: November 7, 2013

TUESDAY, JANUARY 7

WEDNESDAY, JANUARY 8

Keynote Address

Raymond J. Deshaies, California Institute of Technology, USA
Beyond the Proteasome: New Drug Targets in the Ubiquitin System

Ubiquitin Chains and Modifications

David Komander, MRC Laboratory of Molecular Biology, UK
Lys-6-linked Ubiquitination

Michael Rape, University of California, Berkeley, USA
Lys-11-Linked Ubiquitination

Ingrid E. Wertz, Genentech, Inc., USA
Ubiquitin Editing

Short Talk(s) Chosen from Abstracts

Workshop 1: Technological Advances for Interrogating the Ubiquitin Proteasome System

***J. Wade Harper**, Harvard Medical School, USA
Proteomic Approaches to Understanding the Ubiquitin Proteasome System

Short Talks Chosen from Abstracts

Ubiquitin Proteasome System Enzymes: Structural Insights and Biophysical Mechanisms

Brenda A. Schulman, St. Jude Children's Research Hospital, USA
Structural and Mechanistic Studies of Cullin-RING Ligases

Guy S. Salvesen, Sanford-Burnham Medical Research Institute, USA
Why is Addition and Removal of SUMO so Dynamic?

Short Talks Chosen from Abstracts

Poster Session 1

THURSDAY, JANUARY 9

Ubiquitin-Like Proteins in Cellular Signaling

Christopher D. Lima, Memorial Sloan-Kettering Cancer Center, USA
Structural Basis for SUMO and Ubiquitin-Dependent Signal Transduction Pathways

Marcus Groettrup, University of Constance, Germany
FAT10 Regulation of the Ubiquitin Proteasome System

Heran Darwin, New York University School of Medicine, USA
The Mycobacterium Tuberculosis Pupylation Pathway

Matthias Peter, ETH Zürich, Switzerland
Nedd8 Regulation of the Ubiquitin Proteasome System

Short Talk(s) Chosen from Abstracts

Regulation of Signaling Pathways by the Ubiquitin Proteasome System

Ivan Dikic, Goethe University Medical School, Germany
Regulation of Autophagy by the Ubiquitin Proteasome System

Henning Walczak, Imperial College London, UK
Regulation of NF-kappaB by Ubiquitin Chains

Vishva M. Dixit, Genentech, Inc., USA
Ubiquitin-Mediated Modulation of Epigenetics

Short Talk Chosen from Abstracts

Poster Session 2

FRIDAY, JANUARY 10

Ubiquitin Ligases in Cellular Signaling

Ronald T. Hay, University of Dundee, UK
SUMO-Targeted Ubiquitination

Rachel Klevit, University of Washington, USA
Engineering E3 Ligases to Modulate Function

Wenyi Wei, Beth Israel Deaconess Medical Center, USA
Acetylation-Dependent Regulation of Skp2 Oncogenic Functions

Simona Polo, FIRC Institute of Molecular Oncology, Italy
Ubiquitin Ligases in Endocytosis

Short Talk(s) Chosen from Abstracts

Workshop 2: Ubiquitin Proteasome System: Insights from Model Systems

***Hidde L. Ploegh†**, Whitehead Institute for Biomedical Research, USA
Bacterial Subversion of the Ubiquitin Proteasome System

Short Talks Chosen from Abstracts

Deubiquitinase Enzymes in Cellular Signaling

Titia K. Sixma, Netherlands Cancer Institute, Netherlands
Insights into USP Deubiquitinases

Hao Wu, Boston Children's Hospital, USA
Structural Basis for the Function of Deubiquitinase Enzymes

Short Talks Chosen from Abstracts

Poster Session 3

SATURDAY, JANUARY 11

The Ubiquitin Proteasome System as a Drug Target

Speaker to be Announced
The Clinical Efficacy of Nedd8 Activating Enzyme Inhibitors. Representative from Millennium Pharmaceuticals, Inc.

Speaker to be Announced
Drugging E3/Substrate Interactions. Representative from Roche

Stephen P. Jackson, University of Cambridge, UK
Deubiquitinase Enzymes as Drug Targets

Speaker to be Announced
Clinical Update: The Therapeutic Efficacy of Proteasome Inhibition. Representative from Onyx Pharmaceuticals

Short Talk(s) Chosen from Abstracts

The Ubiquitin Proteasome System in Disease

Speaker to be Announced

Alain Israël, Institut Pasteur, France
Ubiquitination in NF-kB Signaling

Daniel J. Finley, Harvard University, USA
Drugging DUBs in Disease

Short Talk Chosen from Abstracts

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SUNDAY, JANUARY 12