

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Targeted Protein Degradation (X8)

Scientific Organizers: Rajesh Chopra, Nathanael Gray, Anita Gandhi and Georg Winter

Supported by the Directors' Fund

Ubiquitin Biology (X7)

Scientific Organizers: Eric J. Bennett, Nicolas H. Thomä and Niels Mailand

March 29-April 1, 2020 • Snowbird Resort • Snowbird, Utah, USA

Supported by the Directors' Fund

Abstract & Scholarship Deadline: November 21, 2019 / Abstract Deadline: December 19, 2019 / Discounted Registration Deadline: January 29, 2020

SUNDAY, MARCH 29

Arrival and Registration

MONDAY, MARCH 30

Welcome and Keynote Address (X8)

James E. Bradner, Novartis Institutes for BioMedical Research, USA
Targeted Protein Degradation: Chemical Biology and Therapeutics

Welcome and Keynote Address (X7)

Ivan Dikic, Goethe University Medical School, Germany
Phosphoribosyl-Dependent Ubiquitination and Pathogenesis

Proteolysis Targeting Chimeras (PROTACs) (X8)

Craig M. Crews, Yale University, USA
PROTACs : Inducing Protein Degradation as a Therapeutic Strategy

Alessio Ciulli, University of Dundee, College of Life Sciences, UK
Structural Biology and Insights into PROTAC Mechanism of Action

Nathanael Gray, Dana-Farber Cancer Center, USA
Targeting Kinases Via Protein Degradation

Short Talk(s) Chosen from Abstracts

Regulating Nuclear Function with Ubiquitin (X7)

Niels Mailand, University of Copenhagen, Denmark
Ubiquitin-Dependent Signaling in the DNA Damage Response

Jo R. Morris, University of Birmingham, UK
SUMOylation in the DNA Double-Strand Break Response

Karim Labib, University of Dundee, UK
Destroying the Eukaryotic Replisome

Short Talk(s) Chosen from Abstracts

Workshop 1 (X8)

Short Talks Chosen from Abstracts

Mechanisms of Protein Ubiquitylation and Degradation (Joint)

Brenda A. Schulman, Max Planck Institute of Biochemistry, Germany
Cullin-RING E3 Ligation Mechanisms

Nicolas H. Thomä, Friedrich Miescher Institute for Biomedical Research, Switzerland
CRL4-CRBN Ubiquitin Ligase-Dependent Targeting of Zinc-Finger Degrons

Kylie J. Walters, NCI, National Institutes of Health, USA
Probing Proteasome Architecture to Impact Protein Degradation

Short Talk(s) Chosen from Abstracts

Poster Session 1

TUESDAY, MARCH 31

Strategies for Therapeutic Targeting of the Ubiquitin Proteasome System (Joint)

David Komander, Walter and Eliza Hall Institute of Medical Research, Australia
Novel Tools and Methods to Study Ubiquitin Modifications

Ingrid E. Wertz, Genentech, Inc., USA
Development of Small Molecule Inhibitors for Deubiquitylating Enzymes

Neil Bence, Nurix Inc., USA
Therapeutic Targeting and Utilization of Ubiquitin Ligases in Drug Discovery

Sara Buhrlage, Dana-Farber Cancer Institute, USA
Approaches to Identify New DUB Inhibitors

Short Talk(s) Chosen from Abstracts

DCAFs as Targets for Protein Degradation (X8)

Anita K. Gandhi, Celgene, USA
Emerging CELMoDs and Clinical Update

Deepak Nijhawan, University of Texas Southwestern Medical Center, USA
DCAF15 and Other DCAFs as Modulators for Protein Degradation

Georg E. Winter, CeMM Research Center for Molecular Medicine, Austria
Genetic Determinants of Targeted Protein Degradation

Short Talk(s) Chosen from Abstracts

Ubiquitin-Dependent Quality Control Mechanisms (X7)

Thibault Mayor, University of British Columbia, Canada
Ubiquitin Ligases in Cytosolic Protein Quality Control

Michael Rape, University of California, Berkeley, USA
The Role of Heterotypic Ubiquitin Chains in Protein Quality Control

Eric J. Bennett, University of California, San Diego, USA
Ribosome Associated Quality Control Mechanisms

Short Talk(s) Chosen from Abstracts

Poster Session 2

WEDNESDAY, APRIL 1

Novel Approaches to Protein Degradation/Homeostasis for Therapeutics (X8)

Leo James, MRC Laboratory of Molecular Biology, UK
Antibody Coated Virions and the E3 Ubiquitin Ligase TRIM 21 for Modulating Intracellular Tumoral Immunity

Titia K. Sixma, Netherlands Cancer Institute, Netherlands
Ubiquitin Conjugation and DUBs in DNA Repair

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Ryan Potts, St. Jude Children's Research Hospital, USA
MAGE Ubiquitin Ligases

Shaomeng Wang, University of Michigan, USA
Talk Title to be Announced

Short Talk(s) Chosen from Abstracts

New Paradigms in Protein Ubiquitylation (X7)

Feng Shao, National Institute of Biological Sciences, China
Novel Mechanisms Used by Pathogens to Suppress Ubiquitin Signaling

Emily Troemel, University of California, San Diego, USA
Ubiquitin Signaling within the Intracellular Pathogen Response Pathway

Heran Darwin, New York University School of Medicine, USA
Proteasomal Regulation of Mycobacterial Virulence

Katerina Artavanis-Tsakonas, University of Cambridge, UK
Control of Ubiquitination in Plasmodium parasites

Short Talk(s) Chosen from Abstracts

Workshop 2 (X8)

Short Talks Chosen from Abstracts

Workshop (X7)

Short Talks Chosen from Abstracts

Methodologies and Technologies for the Investigation of Protein Degradation (X8)

Rajesh Chopra, Cancer Research UK Cancer, UK
Phenotypic Screens for Identifying Modulators of E3 Ligase Function

Takumi Ito, Tokyo Medical University, Japan
Analysis of Neosubstrates of CRL4CRBN in the Presence of Thalidomide and Derivatives.

Hsueh-Chi S. Yen, Academia Sinica, Taiwan
C-Terminal End-Directed Protein Elimination by CRL2 Ubiquitin Ligases

Short Talk Chosen from Abstracts

Ubiquitin System Dysregulation in Disease (X7)

Richard J. Youle, NINDS, National Institutes of Health, USA
Familial Parkinson's Disease and ALS Linked to Mitochondrial Fidelity and Selective Autophagy

J. Wade Harper, Harvard Medical School, USA
Systematic Analysis of Ubiquitin System Dysfunction in Mitochondrial Disorders

James A. Olzmann, University of California, Berkeley, USA
Ubiquitin-Dependent Regulation of Lipid Droplet Proteome Dynamics

Short Talk Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (X8)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (X7)

THURSDAY, APRIL 2

Departure