

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

The Biological Code of Cell Signaling - A Tribute to Tony Pawson (F1)

January 11-16, 2015 • Sheraton Steamboat Resort • Steamboat Springs, Colorado, USA

Scientific Organizers: Tony Hunter and Rune Linding

Supported by the Directors' Fund

Abstract & Scholarship Deadline: September 23, 2014 / Abstract Deadline: October 15, 2014 / Discounted Registration Deadline: November 12, 2014

SUNDAY, JANUARY 11

Registration

MONDAY, JANUARY 12

Tony Pawson: More than 35 Years of Research Discovery

*Rune Linding, Technical University of Denmark, Denmark

Tony Hunter, The Salk Institute, USA

Alan Bernstein, Canadian Institute for Advanced Research, Canada

John D. Scott, University of Washington, USA

Guiding Signals through Anchored Enzyme Complexes

Nina Jones, University of Guelph, Canada

Short Talk

Modular Protein Domains - Past, Present and Future

Peer Bork, European Molecular Biology Laboratory, Germany

Sachdev S. Sidhu, University of Toronto, Canada

Short Talk: Combinatorial Biology and Modular Domains

Toby Gibson, EMBL Heidelberg, Germany

Regulation by Molecular Switching

Bruce J. Mayer, University of Connecticut Health Center, USA

Visualizing the Dynamics of Receptor Tyrosine Kinase Signaling in Living Cells

Poster Session 1

TUESDAY, JANUARY 13

Protein Modules and Drugs

Giulio Superti-Furga, CeMM Center for Molecular Medicine of the Austrian Academy of Sciences, Austria

Rudolf H. Aebersold, Institute of Molecular Systems Biology, ETH Zürich, Switzerland

Phosphorylation Modulated Signaling Networks

Benjamin G. Neel, Ontario Cancer Institute, Canada

Targeted and Global Approaches to Cancer Target Discovery

Steven P. Gygi†, Harvard Medical School, USA

Frank Sicheri, Lunenfeld-Tanenbaum Research Institute, Canada

Structural Principles of Protein Kinase Regulation

Vishva M. Dixit, Genentech, Inc., USA

Short Talk: Ubiquitin Modification in Cancer Pathogenesis

Kinome Biology

Benjamin E. Turk, Yale University, USA

Large Scale Analysis of Protein Kinase Specificity

Stefan Knapp, University of Oxford, UK

Short Talk: Selective Targeting of Signaling Networks

Rune Linding, Technical University of Denmark, Denmark

Biological Forecasting in the Cancer Kinome

Susan S. Taylor, University of California, San Diego, USA

New Concepts for Kinase Signaling: Spines, Pseudokinases, Loops and Linkers

Poster Session 2

WEDNESDAY, JANUARY 14

From Modules and Networks to Cellular Phenotypes

Norbert Perrimon, Harvard Medical School, USA

Spatio-Temporal Regulation of Signaling in Drosophila

John Kuriyan, University of California, Berkeley, USA

Structural Principles in Kinase Signaling

Ivan Dikic, Goethe University Medical School, Germany

Ubiquitin Networks in Cellular Signaling

Michael Tyers, University of Montreal, Canada

Governance of Biological Responses by Weak Protein Interactions

James E. Ferrell Jr., Stanford University, USA

Evolution of Phosphorylation, PTMs and Modular Protein Domains

Chris Tan, Mount Sinai Hospital, Canada

Short Talk: Co-Evolution of Protein Phosphorylation and Protein-Protein Interaction

Gerard Manning, Genentech, Inc., USA

Evolutionary Comparisons to Explore the Function and Diversity of Signaling Biology

Philip Cohen, University of Dundee, UK

Role of Hybrid Ubiquitin Chains in Regulating Innate Immune Signaling Networks

Wendell A. Lim†, University of California, San Francisco, USA

Poster Session 3

THURSDAY, JANUARY 15

Network Medicine - Targeting Signaling Networks

Michael B. Yaffe, Massachusetts Institute of Technology, USA

Douglas A. Lauffenburger, Massachusetts Institute of Technology, USA

Crosstalk and Feedback in Receptor Tyrosine Kinase Signaling Networks

Johannes L. Bos, University Medical Center Utrecht, Netherlands

Michael K. Rosen, University of Texas Southwestern Medical Center, USA

Phase Transitions in the Assembly of Multi-Valent Signaling Proteins

Signaling Networks Driving Disease Progression and Resistance to Drugs

Joan S. Brugge, Harvard Medical School, USA

Richard M. Marais, Cancer Research UK Manchester Institute, UK

NRAS and BRAF Signalling in Melanoma: From Basic Biology to Clinical Efficacy

Joseph Schlessinger, Yale University School of Medicine, USA

Cell Signaling by Receptor Tyrosine Kinases: From Basic Principles to Cancer Therapy

Clark D. Wells, Indiana University School of Medicine, USA

Short Talk

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Jeffrey L. Wrana†, Mount Sinai Hospital, Canada

Short Talk

Closing Remarks: Tony Pawson's Legacy

*Tony Hunter, The Salk Institute, USA

*Rune Linding, Technical University of Denmark, Denmark

FRIDAY, JANUARY 16

Departure