

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Plant Receptor Kinases: From Molecules to Environment (B3)

February 8-13, 2015 • Sagebrush Inn and Conference Center • Taos, New Mexico, USA

Scientific Organizers: Cyril Zipfel and Steven C. Huber

Supported by the Directors' Fund

Abstract & Scholarship Deadline: October 8, 2014 / Abstract Deadline: November 11, 2014 / Discounted Registration Deadline: December 8, 2014

SUNDAY, FEBRUARY 8

Registration

MONDAY, FEBRUARY 9

Keynote Address

Mark A. Lemmon, University of Pennsylvania Perelman School of Medicine, USA
Signaling Mechanisms of Animal Receptor Tyrosine Kinases

Growth and Development I

Zachary Nimchuk, Virginia Polytechnic Institute and State University, USA

RK Signaling in Stem Cell Regulation

Tom Beeckman, Universiteit Gent, Belgium

Root System Development and the Search for RK-Dependent Signaling

Reidunn Birgitta Aalen, University of Oslo, Norway

Communicating Break-Down - Leucine-Rich Repeat Receptor-Like Kinases Involved in Cell Separation

Short Talk(s) Chosen from Abstracts

Workshop 1: Structural Biology of Plant RKs

*Jijie Chai, Tsinghua University, China

*Michael Hothorn, Friedrich Miescher Laboratory of the Max Planck Society, Germany

Short Talks Chosen from Abstracts

Brassinosteroid Perception and Signaling

Steven C. Huber, USDA/ARS, University of Illinois at Urbana-Champaign, USA

Phosphorylation Events in Early BR Signaling

Steven D. Clouse, North Carolina State University, USA

Phospho-Proteomics of LRR-RK Families

Michael Hothorn, Friedrich Miescher Laboratory of the Max Planck Society, Germany

Atomic Insights Into the Early Steps of Brassinosteroid Signalling

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, FEBRUARY 10

Cell Biology of RKs

Silke Robatzek, Sainsbury Laboratory, UK

RKs on the Move: Endosomal Pathways in Innate Immunity

Yvonne Stahl, Heinrich-Heine-Universität Düsseldorf, Germany

RK Complexes in Root Meristems

Eugenia Russinova, Interuniversity Institute of Biotechnology, University of Ghent, Belgium

Endocytosis of BRI1

Sacco de Vries, Wageningen University, Netherlands

Quantitative Analysis of RK Complexes

Short Talk(s) Chosen from Abstracts

Interaction with Environment: Symbioses

Martin Parniske, University of Munich, Germany

Regulation of Symbiosis Receptor Kinase by its Ectodomain

Elena Simona Radutoiu, Aarhus University, Denmark

Roles of LysM-RKs in Microbes Perception and Accommodation

Julie V. Cullimore, French National Institute for Agricultural Research, France

Perception of Symbiotic Signals by LysM-RKs

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, FEBRUARY 11

Interaction with Environment: Innate Immunity

Cyril Zipfel, Sainsbury Laboratory, UK

RK-Mediated Signaling during Innate Immunity

Jian-Min Zhou, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, China

Roles of Cytoplasmic Kinases in Innate Immunity

Libo Shan, Texas A&M University, USA

Ubiquitination of RKs in Innate Immunity

Jijie Chai, Tsinghua University, China

Structural Biology of RKs Involved in Innate Immunity

Short Talk(s) Chosen from Abstracts

Growth and Development II

Keiko U. Torii, University of Washington, USA

RK Complexes in Stomatal Development

Ueli Grossniklaus, University of Zürich, Switzerland

Malectin-Domain RKs and Reproduction

Herman R. Höfte, Institut Jean-Pierre Bourgin, INRA Centre de Versailles-Grignon, France

Perception of Cell Wall Integrity by RKs

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, FEBRUARY 12

Translation of Receptor Kinase Biology

Giles E.D. Oldroyd, John Innes Centre, UK

Engineering the Symbiosis Signalling Pathway of Cereals

Antonio Molina, Centro de Biotecnología y Genómica de Plantas (UPM-INIA), Spain

Perception of Cell Wall-Derived signals and Broad-Spectrum Disease Resistance

Ahsan Habib, Novozymes Biologicals, Inc., USA

Nod Factor Perception and Yield Improvement

Christophe Reuzeau, CropDesign N.V., Belgium

Boosting Crop Yields with Plant Steroids

Short Talk(s) Chosen from Abstracts

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Workshop 2: Proteomics Analysis of Plant RKs

*Steven D. Clouse, North Carolina State University, USA

Short Talks Chosen from Abstracts

Evolution of Plant RKs

Yoko Nishizawa, National Institute of Agrobiological Sciences, Japan

Engineering of Novel Receptor Kinases for Disease Resistance

Rene Geurts, Wageningen University, Netherlands

Perception of Rhizobium Lipochitooligosaccharide Signals by Non-Legumes

Speaker to be Announced

Short Talk Chosen from Abstracts

FRIDAY, FEBRUARY 13

Departure