

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

PI3-Kinase and PTEN at the Interface of Cell Growth, Vesicular Trafficking and Disease (E1)

May 3-7, 2020 • Herrenhausen Palace • Hannover, Germany

Scientific Organizers: Bart Vanhaesebroeck, Volker Haucke and Lori Friedman

Organized in collaboration with Volkswagen Foundation

Global Health Travel Award Deadline: December 3, 2019 / Discounted Abstract & Scholarship Deadline: January 7, 2020 / Abstract Deadline: February 4, 2020 / Discounted Registration Deadline: March 3, 2020

SUNDAY, MAY 3

Arrival and Registration

MONDAY, MAY 4

Welcome and Keynote Address

***Lewis C. Cantley**, Weill Cornell Medicine, USA

Roger L. Williams, Medical Research Council, UK
Structural Studies to Guide PI3K Biology and Drug Development

Class I PI3K/PTEN Pathway: Signaling Mechanisms

Lewis C. Cantley, Weill Cornell Medicine, USA
Modulation of Organismal Metabolism to Make PI3K Inhibitors Work in Cancer

Wonhwa Cho, University of Illinois at Chicago, USA
Quantitative Spatiotemporal Imaging of PI 3-Phosphates and Their Effectors

Bart Vanhaesebroeck, University College London, Cancer Institute, UK
Mechanism of Action of PIK3CA Mutation

Short Talks Chosen from Abstracts

Workshop 1: New Developments in PI3K Research

Short Talks Chosen from Abstracts

PI3K and Immune Function

Klaus Okkenhaug, University of Cambridge, UK
PI3K Isoforms in Immunity, Infection and Cancer

Awen M. Gallimore, University of Wales College of Medicine, UK
Molecular Mechanisms of PI3Kdelta based Immunotherapy in Solid Tumors

Carrie L. Lucas, Yale University, USA
Lessons from PI3K Mutations in Human Immune Disorders

Short Talks Chosen from Abstracts

Poster Session 1

TUESDAY, MAY 5

PTEN and Other Lipid Phosphatases

Takehiko Sasaki, Tokyo Medical and Dental University, Japan
Phosphoinositide Phosphatases in Biological Systems

Pier Paolo Pandolfi, Beth Israel Deaconess Medical Center, Harvard Medical School, USA
The Many Faces of PTEN

Phillip T. Hawkins, Babraham Institute, UK
Roles of PTEN in Cancer

Ramon Parsons, Icahn School of Medicine at Mount Sinai, USA
PTEN Regulation

Short Talks Chosen from Abstracts

Workshop 2: PI3 Lipid Phosphatases in Disease

Short Talks Chosen from Abstracts

PI3K/PTEN in Neuronal and Glial Function

Kathleen Millen, Seattle Children's Research Institute, USA
Modelling PIK3CA Function and Deregulation in the Brain: Mechanism of Action

Jose A. Esteban, Centro de Biología Molecular Severo Ochoa, Spain
PTEN Signaling in Neuronal Plasticity and Social Behavior

Mustafa Sahin, Boston Children's Hospital, USA
TSC and PTEN Signaling in Childhood Neurological Diseases

Short Talks Chosen from Abstracts

Poster Session 2

WEDNESDAY, MAY 6

Class III PI3K / Autophagy / PI3P Effectors

Dario Alessi, University of Dundee, UK
Crosstalk between Class I and Class III PI3Ks

Harald Stenmark, Oslo University Hospital, Norway
Characterisation and Interplay of PI3P Effectors

Anne Simonsen, University of Oslo, Norway
Regulation of Autophagy by Lipid-Binding Proteins

James H. Hurley, University of California, Berkeley, USA
Regulation of Class III PI 3-Kinase Complexes in Autophagy

Short Talks Chosen from Abstracts

Workshop 3: New Developments in PI3K Research, Disease and Treatment

Short Talks Chosen from Abstracts

Class II PI3Ks

Amy Kiger, University of California, San Diego, USA
Class II PI3K Genetics and Biology

Emilio Hirsch, Fondazione per la Ricerca Biomedica – ONLUS, Italy
Targeting PI3Kgamma Scaffold Function to Treat Cystic Fibrosis

Volker Haucke, Leibniz Institut für Molekulare Pharmakologie, Germany

A Question of Identity: Role of Class II PI3Ks in Endocytosis and the Endolysosomal System

Short Talks Chosen from Abstracts

Poster Session 3

THURSDAY, MAY 7

Mechanism-Based Therapeutic Intervention with PI3K/PTEN-Deregulation I

Robert K. Semple, University of Edinburgh, UK
Molecular Mechanisms of PI3Kalpha Related Overgrowth Syndrome

Mariona Graupera, IDIBELL, Spain
Oncogenic PI3K Signaling in Vascular Malformations

Ningshu Liu, Bayer HealthCare, Germany
Alternative Dosing Schemes of PI3K Inhibitors to Engage an Anti-Cancer Therapy Immune Response

Jennifer R. Brown, Dana-Farber Cancer Institute, USA
Clinical Development of PI3Kdelta Inhibitors in CLL

Short Talks Chosen from Abstracts

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Workshop 4: Roles of PI3Ks and PI 3-Phosphatases in Brain and Other Tissues

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Short Talks Chosen from Abstracts

Mechanism-Based Therapeutic Intervention with PI3K/PTEN-Deregulation II

Lori Friedman, ORIC Pharmaceuticals, USA

Lessons Learned from PI3K and AKT Inhibitors in Oncology Trials

Dejan Juric[†], Massachusetts General Hospital, USA

Talk Title to be Announced

Christian H. Ottensmeier, University of Southampton, UK

Cancer Immunotherapy in Solid Tumors with PI3Kdelta Inhibitors – Clinical Impact and Molecular Understanding

Short Talk Chosen from Abstracts

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

FRIDAY, MAY 8

Departure