

KEYSTONE SYMPOSIA on Molecular and Cellular Biology

Epigenetics and Cancer (A4)

January 25-30, 2015 • Keystone Resort • Keystone, Colorado, USA

Scientific Organizers: Tony Kouzarides and Kristian Helin

Supported by the Directors' Fund

Abstract & Scholarship Deadline: September 30, 2014 / Abstract Deadline: October 23, 2014 / Discounted Registration Deadline: November 24, 2014

SUNDAY, JANUARY 25

Registration

MONDAY, JANUARY 26

Epigenetic Modifications and Cancer

Speaker to be Announced

Kristian Helin, University of Copenhagen, Denmark

Histone Methylation in Differentiation and Disease

Ali Shilatifard, Stowers Institute for Medical Research, USA
Enhancer Malfunction in Cancer

Tony Kouzarides, University of Cambridge, UK
Epigenetic Pathways and their Role in Cancer

Short Talk(s) Chosen from Abstracts

Mechanisms of Epigenetic Signaling

Jeannie T. Lee, Massachusetts General Hospital, USA

The Roles of Long Noncoding RNA in Epigenetic Regulation

Anjana Rao, La Jolla Institute for Allergy and Immunology, USA
TET Proteins and 5-Methylcytosine Oxidation

Ramin Shiekhattar, Wistar Institute, USA
Long Noncoding RNAs and Transcriptional Regulation

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, JANUARY 27

Components of Epigenetic Pathways

Shelley L. Berger, University of Pennsylvania, USA

Chromatin Changes in Eukaryotic Senescence and Aging

Danny F. Reinberg, HHMI/New York University, USA
Chromatin Regulation by Polycomb Complexes

Luciano Di Croce, Centre for Genomic Regulation, Spain
Role of Polycomb in Gene Transcription, Development and Human Diseases

Thomas Jenuwein, Max-Planck Institute of Immunobiology and Epigenetics, Germany
Making and Breaking Chromatin

Short Talk(s) Chosen from Abstracts

Epigenetic Changes in Stem Cells and Cancer

James E. Bradner, Dana-Farber Cancer Institute, USA

Modulation of Acetyl-Lysine Signaling

Christopher Vakoc, Cold Spring Harbor Laboratory, USA
Role of the BET Proteins in Leukaemia

Richard A. Young, Whitehead Institute for Biomedical Research, USA
Enhancer Structure and Function in Stem Cells and Cancer

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, JANUARY 28

Epigenetics in Hematopoietic Tumors

Ross L. Levine, Memorial Sloan-Kettering Cancer Center, USA

Mutations in Epigenetic Modifiers in Myeloid Malignancies

Iannis Aifantis, HHMI/New York University School of Medicine, USA
The Ubiquitome and its Role in Blood Stem Cell Differentiation and Leukemia

Johannes Zuber, Research Institute of Molecular Pathology, Austria
Comparative Analysis of Chromatin Dependencies in Leukemia Using Advanced RNAi Technologies

Speaker to be Announced

Short Talk(s) Chosen from Abstracts

Epigenetics Meets Genetics

Peter Campbell, Wellcome Trust Sanger Institute, UK

The Cancer Genome

Jeffrey Settleman, Genentech, Inc., USA

Chromatin Modification as a Mechanism of Reversible Tolerance to Cancer Drugs

Charles M. Roberts, Dana Farber Cancer Institute, USA
SWI/SNF Chromatin Remodeling Complexes in Cancer

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, JANUARY 29

Epigenetic Cancer Therapies I

Patrick Trojer, Constellation Pharmaceuticals, USA

Targeting Histone Lysine Methylation in Cancer

Roy M. Pollock, Epizyme, Inc, USA

Targeting Histone Methyltransferases in Cancer Therapy

Caretha L. Creasy, GlaxoSmithKline Pharmaceuticals, USA
EZH2 as a Drug Target in Cancer

Speaker to be Announced

Short Talk(s) Chosen from Abstracts

Epigenetic Cancer Therapies II

Stefan Knapp, University of Oxford, UK

Specific Targeting of Reader Domains of the Epigenetic Code

Victoria M. Richon†, sanofi, USA

Targeting Chromatin Modifying Enzymes in Cancer Therapy: Lessons Learned and Path Forward

Speaker to be Announced

Short Talk Chosen from Abstracts

FRIDAY, JANUARY 30

Departure