

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Cancer Epigenetics: New Mechanisms, New Therapies (B4)

February 10-14, 2018 • Beaver Run Resort • Breckenridge, Colorado, USA

Scientific Organizers: François Fuks and Anne Brunet

Sponsored by Novartis Institutes for BioMedical Research

Abstract & Scholarship Deadline: October 10, 2017 / Abstract Deadline: November 8, 2017 / Discounted Registration Deadline: December 12, 2017

SATURDAY, FEBRUARY 10

Arrival and Registration

SUNDAY, FEBRUARY 11

Welcome and Keynote Address

Tony Kouzarides, University of Cambridge, UK
Epigenetic Modifications in Transcription and Cancer

Epigenetic Mechanisms and Cancer

Shelley L. Berger, University of Pennsylvania, USA
Epigenetic Regulation of Aging and Cancer

Ali Shilatifard, Northwestern University, USA
Principles of Epigenetics and Chromatin in Development and Human Disease

Robert E. Kingston, Massachusetts General Hospital, USA
Chromatin Compaction and Epigenetic Memory

Short Talk(s) Chosen from Abstracts

Chromatin Dysregulations in Cancer

Danny F. Reinberg, HHMI/New York University, USA
Activating and Repressing Transcription to Maintain Cellular Identity

Luciano Di Croce, Centre for Genomic Regulation, Spain
Unveiling Polycomb Functions in Stem Cells and Cancer

Cigall Kadoch, Dana-Farber Cancer Institute, Harvard Medical School, USA

BAF Complex Structure and Function in Human Cancer

Short Talk Chosen from Abstracts

Poster Session 1

MONDAY, FEBRUARY 12

Emergence of Epitranscriptomics

François Fuks, Université Libre De Bruxelles, Belgium
Transcriptome-Wide Distribution and Function of Novel RNA Modifications

Chuan He, University of Chicago, USA
Reversible RNA Methylation in Gene Expression Regulation

Gideon Rechavi, Tel Aviv University, Israel
Cancer Epitranscriptomics

Michaela Frye, University of Cambridge, UK
RNA Post-Transcriptional m5C-Methylation in Stem Cells and Cancer

Short Talk(s) Chosen from Abstracts

Chromatin Assembly, Stem Cells and Aging

Howard Y. Chang, Stanford University, USA
From Epigenetics to Stem Cells and Cancer

Geneviève Almouzni, Centre National de la Recherche Scientifique, France

Chromatin Determinants of Centromeric Identity and their Deregulation in Cancer

Anne Brunet, Stanford University, USA
Mechanisms that Regulate Aging in Cancer

Short Talk Chosen from Abstracts

Poster Session 2

TUESDAY, FEBRUARY 13

DNA (de)Methylation Dynamics and Cancer

Stephen B. Baylin, Johns Hopkins University School of Medicine, USA

DNA Methylation in Stem Cell and Cancer

Peter A. Jones, Van Andel Research Institute, USA
How DNA Methylation Shapes the Epigenome

Salvador Aznar Benitah, ICREA and Institute for Research in Biomedicine, Spain

DNA Methyltransferases in Epidermal Stem Cell Homeostasis and Cancer

Karen Adelman, Harvard Medical School, USA

Transcription Elongation by RNA Polymerase II and Cancer

Short Talk(s) Chosen from Abstracts

Connecting Non-Coding RNAs and Cancer

Speaker to be Announced

Chris Marine, VIB, Belgium
Cancer Cell Addiction to lncRNAs

Robert A. Martienssen, Cold Spring Harbor Laboratory, USA
Replication-Coupled Silencing and Spreading with RNAi

Short Talk Chosen from Abstracts

Poster Session 3

WEDNESDAY, FEBRUARY 14

Novel Therapeutic Discoveries in Epigenetics I

Mark A. Dawson, Peter MacCallum Cancer Centre, Australia
Targeting Epigenetic Regulators in Haematological Malignancies

Kornelia Polyak, Dana-Farber Cancer Institute, Harvard Medical School, USA

Epigenetic Targets in Breast Cancer

Robert MacLeod, Ionis Pharmaceuticals, Inc., USA
Antisense Oligonucleotide-Based Therapeutics for Cancer

Ronan C. O'Hagan, Merck Research Laboratories, USA
Epigenetics and Immune Modulation in Cancer Therapy

Short Talk(s) Chosen from Abstracts

Workshop

Short Talks Chosen from Abstracts

Novel Therapeutic Discoveries in Epigenetics II

Electron Kebebew, National Cancer Institute, USA
Targeting the Epigenome in Endocrine Cancers

Rab K. Prinjha, GlaxoSmithKline, UK
Epigenetic Targets for the Treatment of Human Diseases

James E. Bradner, Novartis Institutes for BioMedical Research, USA
Targeted Degradation of Chromatin-Associated Transcription Factors

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

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THURSDAY, FEBRUARY 15

Departure