

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

DNA and RNA Methylation (A7)

January 21-25, 2018 • Fairmont Hotel Vancouver • Vancouver, British Columbia, Canada

Scientific Organizers: Chuan He and Ting Wang

Supported by the Directors' Fund

Abstract & Scholarship Deadline: September 27, 2017 / Abstract Deadline: October 27, 2017 / Discounted Registration Deadline: November 28, 2017

SUNDAY, JANUARY 21

Arrival and Registration

MONDAY, JANUARY 22

Welcome and Keynote Address

Joseph R. Ecker, The Salk Institute for Biological Studies, USA
Epigenomic Signatures of Neuronal Diversity in the Mammalian Brain

Global DNA Methylation

Dirk Schübeler, Friedrich Miescher Institute for Biomedical Research, Switzerland
DNA Methylation and DNMTs

Alexander Meissner, Harvard University, Broad Institute, USA
DNA Methylation

Steven E. Jacobsen, University of California, Los Angeles, USA
DNA Methylation in Plants

Short Talk(s) Chosen from Abstracts

Workshop 1: Epigenome and Computational Biology

***Ting Wang**, Washington University, USA

Short Talks Chosen from Abstracts

Dynamic DNA Methylation

Wolf Reik, Babraham Institute, UK
Epigenetic Heterogeneity in Development and Aging

Joseph F. Costello, University of California, San Francisco, USA
TET and DNA Demethylation

Anjana Rao, La Jolla Institute for Allergy and Immunology, USA
Active DNA Demethylation

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, JANUARY 23

DNA Methylation in Diseases

Peter A. Jones, Van Andel Research Institute, USA
5-azaC

Ting Wang, Washington University, USA
DNA Methylation

Margaret A. Goodell, Baylor College of Medicine, USA
DNA Methylation in Leukemia

Dana C. Dolinoy, University of Michigan School of Public Health, USA
Longitudinal Effects of Developmental Exposures on Age-Related DNA Methylation and Hydroxymethylation

Short Talk(s) Chosen from Abstracts

Other DNA Methylation

Yang Shi, Children's Hospital Boston, Harvard Medical School, USA
DNA 6mA Methylation

Andrew Xiao, Yale University, USA
N6-mA in Mammalian Genomes

Chunxiao Song, University of Oxford, UK
DNA Hydroxymethylation

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, JANUARY 24

Dynamic RNA Methylation

Chuan He, University of Chicago, USA
Dynamic RNA Methylation

Gideon Rechavi, Tel Aviv University, Israel
Biological Implication of Epitranscriptomics

Samie Jaffrey, Weill Medical College of Cornell University, USA
Diversity and Dynamics of Methylation Marks on Adenosine in the Epitranscriptome

Tao Pan, University of Chicago, USA
RNA Methylation in Structural Switch

Short Talk(s) Chosen from Abstracts

RNA Methylation in Development and Cellular Processes

Howard Y. Chang, Stanford University, USA
RNA Methylation in Cell Differentiation

Sohail F. Tavazoie, Rockefeller University, USA
RNA Methylation in microRNA Regulation

Yunsun Nam, University of Texas Southwestern Medical Center, USA
METTL3-METTL14 Structure

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, JANUARY 25

RNA Methylation in Diseases

Tariq M. Rana, University of California, San Diego, USA
RNA Methylation in Virus Infection

Stacy M. Horner, Duke University Medical Center, USA
RNA Methylation in Virus Infection

Suyun Huang, MD Anderson Cancer Center, USA
RNA Methylation in Glioma

Yanhong Shi, Beckman Research Institute of City of Hope, USA
RNA Modification in Glioblastoma

Short Talk(s) Chosen from Abstracts

Workshop 2: DNA and RNA Methylation in Diseases

Short Talks Chosen from Abstracts

Other RNA Methylation

Michaela Frye, University of Cambridge, UK
tRNA m5C Methylation in Biological Regulation

François Fuks, Université Libre De Bruxelles, Belgium
RNA 5hmC Methylation

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Juan Alfonso, Ohio State University, USA

*Editing and Methylation at a Single Site by Functionally
Interdependent Activities*

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

FRIDAY, JANUARY 26

Departure