



Join Keystone Symposia
for the 2016 conference on:

Noncoding RNAs in Health and Disease

February 21–24, 2016

Santa Fe Community Convention Center | Santa Fe, New Mexico | USA

Scientific Organizers: Ramin Shiekhattar and Roberto Bonasio

Joint with the conference on *Enhancer Malfunction in Cancer*

Over the past decade, there has been a greater understanding of genomic complexity in eukaryotes ushered in by the immense technological advances in high-throughput sequencing of DNA and its corresponding RNA transcripts. This has resulted in the realization that beyond protein-coding genes, there are a large number of transcripts that do not encode for proteins and, therefore, may perform their function through RNA sequences and/or through secondary and tertiary structural determinants. This Keystone Symposia meeting is focused on the latest findings concerning different classes of noncoding RNAs that use different strategies to regulate transcription. These are exciting times for discovering the biological scope and the mechanism of action for these RNA molecules, which have roles in dosage compensation, imprinting, enhancer function and transcriptional regulation, with a consequently great impact in development and disease.

Session Topics:

- Noncoding RNAs in Dosage Compensation and Germline Function
- Small Noncoding RNA in Transcriptional Silencing
- Enhancer RNA in Development and Disease (Joint)
- Enhancer Chromatin and Noncoding RNA (Joint)
- Noncoding RNAs and Polycomb/Trithorax Complexes
- Noncoding RNAs and Nuclear Architecture



Submitting an abstract is a great way of participating in the conference through poster presentation and possible selection for a short talk.

Scholarship & Discounted Abstract Deadline: Oct 20, 2015

Abstract Deadline: Nov 18, 2015

Discounted Registration Deadline: Dec 18, 2015

For additional details, visit www.keystonesymposia.org/16Q5.

KEYSTONE SYMPOSIA[™]
on Molecular and Cellular Biology

Accelerating Life Science Discovery

www.keystonesymposia.org/meetings | 1.800.253.0685 | 1.970.262.1230

a 501(c)(3) nonprofit educational organization

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Noncoding RNAs in Health and Disease (Q5)

Scientific Organizers: Ramin Shiekhata and Roberto Bonasio

Sponsored by Cell Research and Journal of Molecular Cell Biology (JMCB)

Enhancer Malfunction in Cancer (Q6)

Scientific Organizers: Ali Shilatifard and Dale Dorsett

February 21-24, 2016 • Santa Fe Community Convention Center • Santa Fe, New Mexico, USA

Supported by the Directors' Fund

Abstract & Scholarship Deadline: October 20, 2015 / Abstract Deadline: November 18, 2015 / Discounted Registration Deadline: December 18, 2015

SUNDAY, FEBRUARY 21

Arrival and Registration

MONDAY, FEBRUARY 22

Welcome and Keynote Session (Joint)

Michael S. Levine, University of California, Berkeley, USA
Enhancers/Promoters and Regulation of Gene Expression

Eric N. Olson, University of Texas Southwestern Medical Center, USA
Modulation of Muscle Development and Disease by Non-Coding RNAs

Noncoding RNAs in Dosage Compensation and Germline Function (Q5)

Howard Y. Chang, Stanford University, USA
Genome Regulation by Long Noncoding RNAs

Asifa Akhtar, Max Planck Institute of Immunobiology and Epigenetics, Germany
Epigenetic Regulation by MOF Containing Complexes

Robert A. Martienssen, Cold Spring Harbor Laboratory, USA
Noncoding RNAs and Transposition

Short Talk(s) Chosen from Abstracts

Enhancer Biology (Q6)

Dale Dorsett, St. Louis University School of Medicine, USA
RNA Binding Proteins Aid Association of Cohesin with Genes and Enhancers

Matthias Merkenschlager, Imperial College London, UK
The contribution of cohesin to enhancer connectivity and function.

Alexander Stark, Research Institute of Molecular Pathology - IMP, Austria
EMBO Young Investigator Lecture: Decoding Transcriptional Regulation

Short Talk(s) Chosen from Abstracts

Small Noncoding RNA in Transcriptional Silencing (Q5)

Shiv I. S. Grewal, NCI, National Institutes of Health, USA
RNA Processing Machinery in Gene Silencing

Thierry Lagrange, Centre National pour la Recherche Scientifique, France
Mechanisms of Small RNA-Mediated Transcriptional Gene Silencing in Arabidopsis Thaliana

Eric A. Miska, University of Cambridge, UK
Talk Title to be Announced

Short Talk Chosen from Abstracts

Enhancers in Development (Q6)

Denis Duboule, EPFL-SV-ISREC-UPDUB, Switzerland
Enhancers of the Homeotic Clusters in Development

Gioacchino Natoli, IEO, European Institute of Oncology, Italy
Non-Coding Transcription at Enhancers and Promoters: Genome Wide Suppression by Early Termination

Gerd A. Blobel, Childrens Hospital of Philadelphia, USA
A Hyperactive Transcriptional State Marks Genome Reactivation during Mitotic Exit

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, FEBRUARY 23

Enhancer RNA in Development and Disease (Joint)

Ramin Shiekhata, University of Miami, USA
Biogenesis and Mechanism of Action of enhancer RNAs

Edith Heard, Institut Curie, France
The Noncoding Xist RNA: Regulation and Functions

Christopher K. Glass, University of California, San Diego, USA
Mechanisms and Consequences of Enhancer Transcription

Tae-Kyung Kim, University of Texas Southwestern Medical Center, USA
Functional Mechanisms of Neuronal Enhancers

Short Talks Chosen from Abstracts

Enhancer Chromatin and Noncoding RNA (Joint)

Ali Shilatifard, Northwestern University Feinberg School of Medicine, USA
Enhancer Malfunction in Cancer

Tony Kouzarides, University of Cambridge, UK
Role of ncRNAs in Transcription and Cancer

Harinder Singh, Cincinnati Children's Hospital Medical Center, USA
Talk Title to be Announced

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, FEBRUARY 24

Noncoding RNAs and Polycomb/Trithorax Complexes (Q5)

François Fuks, University of Brussels, Belgium
Talk Title to be Announced

Anne Brunet, Stanford University, USA
Epigenetic Regulation of Longevity

Roberto Bonasio, University of Pennsylvania, USA
Noncoding RNAs as Chromatin Organizers

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Noncoding RNAs in Health and Disease (Q5)

Scientific Organizers: Ramin Shiekhata and Roberto Bonasio

Sponsored by Cell Research and Journal of Molecular Cell Biology (JMCB)

Enhancer Malfunction in Cancer (Q6)

Scientific Organizers: Ali Shilatifard and Dale Dorsett

February 21-24, 2016 • Santa Fe Community Convention Center • Santa Fe, New Mexico, USA

Supported by the Directors' Fund

Abstract & Scholarship Deadline: October 20, 2015 / Abstract Deadline: November 18, 2015 / Discounted Registration Deadline: December 18, 2015

Luciano Di Croce, Centre for Genomic Regulation, Spain

PRC2 and Noncoding RNAs in Cancer

Short Talk(s) Chosen from Abstracts

Enhancers and Regulatory Networks (Q6)

Ann Dean, NIDDK, National Institutes of Health, USA

Enhancer Mechanisms Underlying the Erythroid Transcriptome

Warren S. Pear, University of Pennsylvania, USA

Long-range Enhancers, Notch and Leukemia

W. Lee Kraus, University of Texas Southwestern Medical Center, USA

Molecular Mechanisms for the Assembly and Function of Cell

Type-Specific Enhancers

Richard A. Young, Whitehead Institute for Biomedical Research, USA

Enhancer Promoter Communication in Development and Cancer

Short Talk(s) Chosen from Abstracts

Noncoding RNAs and Nuclear Architecture (Q5)

John L. Rinn, Harvard University, USA

The Function of Long Noncoding RNA FIRRE

Karen Adelman, NIEHS, National Institutes of Health, USA

Talk Title to be Announced

Shelley L. Berger, University of Pennsylvania, USA

Enhancer RNAs and Enhancer Looping

Chromatin Structure and Enhancer Promoter Communications (Q6)

Nadav Ahituv, University of California, San Francisco, USA

Functional Characterization of Gene Regulatory Elements

John A. Stamatoyannopoulos, University of Washington, USA

Regulatory DNA in the Human and Mouse Genomes

Robert E. Kingston, Massachusetts General Hospital, USA

Talk Title to be Announced

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Q5)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Q6)

THURSDAY, FEBRUARY 25

Departure