

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Noncoding RNAs: Form, Function, Physiology (C2)

February 25-March 1, 2018 • Keystone Resort • Keystone, Colorado, USA
Scientific Organizers: Joshua T. Mendell, Igor Ulitsky and Sohail F. Tavazoie

Sponsored by Ionis Pharmaceuticals, Inc.

Abstract & Scholarship Deadline: October 24, 2017 / Abstract Deadline: November 21, 2017 / Discounted Registration Deadline: December 19, 2017

SUNDAY, FEBRUARY 25

Arrival and Registration

MONDAY, FEBRUARY 26

Welcome and Keynote Address

Caroline Dean, John Innes Centre, UK
Antisense-Mediated Chromatin Silencing

Evolution and Structure of Noncoding RNAs

Igor Ulitsky, Weizmann Institute of Science, Israel
Evolution of Noncoding RNAs

Howard Y. Chang, Stanford University, USA
Noncoding RNA Structure and Function

Kevin Weeks, University of North Carolina, USA
A Pervasive Role for Structure in lncRNA Function

Short Talk(s) Chosen from Abstracts

Prokaryotic and Viral Noncoding RNAs

Jörg Vogel, University of Würzburg, Germany
Regulatory Roles of Noncoding RNAs in Bacterial Pathogens

Ronald R. Breaker, Yale University, USA
Ribozymes and Riboswitches

Joan A. Steitz, HHMI, Yale University, USA
Viral Noncoding RNAs

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, FEBRUARY 27

Noncoding RNAs in Epigenetic Regulation

Jeannie T. Lee, Massachusetts General Hospital, USA
Initiation and Maintenance of X-Inactivation

Roberto Bonasio, University of Pennsylvania, USA
Regulation of Chromatin by Protein-RNA Interactions

Xiaohua Shen, Tsinghua University, China
Long Noncoding RNA in Stem Cell and Cancer Biology

Mitchell Guttman, California Institute of Technology, USA
Functional Dissection of Noncoding RNAs

Short Talk(s) Chosen from Abstracts

Workshop: Highlights of Submitted Abstracts

Short Talks Chosen from Abstracts

Noncoding RNAs in Subcellular Organization

Tetsuro Hirose, Hokkaido University, Japan
NEAT1 and Other Noncoding RNAs in Nuclear Bodies

David L. Spector, Cold Spring Harbor Laboratory, USA
lncRNAs in Breast Cancer Progression

John L. Rinn, University of Colorado, Boulder, USA
Firre and Other Repeat-Containing Noncoding RNAs

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, FEBRUARY 28

Transcriptional and Post-Transcriptional Regulation by Noncoding RNAs

Joshua T. Mendell, HHMI/University of Texas Southwestern Medical Center, USA

Noncoding RNAs in Post-Transcriptional Regulatory Circuits

Irene Bozzoni, University La Sapienza, Rome, Italy
Long Noncoding RNAs in Gene Expression Control

Reuven Agami, Netherlands Cancer Institute, Netherlands
Functional Dissection of Enhancer RNAs

Ramin Shiekhattar, University of Miami, USA
Enhancer RNA Function

Short Talk(s) Chosen from Abstracts

Non-Canonical Roles of tRNAs, snoRNAs, and Repetitive RNAs

Sohail F. Tavazoie, Rockefeller University, USA
tRNA Fragments in Cancer Metastasis

Britt Glaunsinger, University of California, Berkeley/HHMI, USA
Repetitive Noncoding RNAs in Viral Pathogenesis

Paul A. Khavari, Stanford University, USA
Regulation of Ras Signaling by snoRNAs

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, MARCH 1

Noncoding RNAs in Disease

Stefanie Dimmeler, University of Frankfurt, Germany
lncRNAs in Cardiovascular Disease

Chris Marine, VIB, Belgium
lncRNAs in Melanoma

Caroline Woo, RaNA Therapeutics, USA
Therapeutic Targeting of Long Noncoding RNAs

Silvia Zucchelli, TransSINE Technologies, Japan
SINEUPs: A Versatile Tool to Increase Protein Synthesis

Short Talk(s) Chosen from Abstracts

Unconventional RNA Form and Function

Jeremy E. Wilusz, University of Pennsylvania, USA
Long Noncoding RNA and Circular RNA Biogenesis

Antonio J. Giraldez, Yale University School of Medicine, USA
Noncoding RNAs and Peptides in Zebrafish Development

Lingling Chen, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, China
Biogenesis and Function of Circular RNAs

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

FRIDAY, MARCH 2

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Departure