

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

RNA Silencing (A9)

January 31-February 5, 2014 • Sheraton Seattle Hotel • Seattle, Washington, USA

Scientific Organizers: V. Narry Kim, David P. Bartel and Julius Brennecke

Supported by the Directors' Fund

Abstract & Scholarship Deadline: September 30, 2013 / Abstract Deadline: October 31, 2013 / Discounted Registration Deadline: December 2, 2013

FRIDAY, JANUARY 31

SATURDAY, FEBRUARY 1

Keynote Address

Phillip D. Zamore, University of Massachusetts Medical School, USA

Small RNAs in Microorganisms

Jennifer A. Doudna, HHMI/University of California, Berkeley, USA

RNA-Programmed Genome Defense by Bacterial CRISPRs

Yi Liu, University of Texas Southwestern Medical Center, USA

Diverse Fungal Small RNA Production Pathways

Elisabetta Ullu, Yale University, USA

Small RNA Machinery in Trypanosoma

Short Talk(s) Chosen from Abstracts

Workshop 1

Short Talks Chosen from Abstracts

Structure and Mechanism I

Dinshaw J. Patel, Memorial Sloan-Kettering Cancer Center, USA

Structural Insights into Silencing Machinery

Leemor Joshua-Tor, Cold Spring Harbor Laboratory, USA

Structure of Argonaute

Elisa Izaurralde, Max Planck Institute for Developmental Biology, Germany

Mechanism of miRNA-Mediated Silencing

Short Talk Chosen from Abstracts

Poster Session 1

SUNDAY, FEBRUARY 2

Structure and Mechanism II

Ian MacRae, The Scripps Research Institute, USA

Structure of Dicer and Argonaute

Antonio J. Giraldez, Yale University, School of Medicine, USA

Silencing Mechanism in Zebrafish

V. Narry Kim, Seoul National University, South Korea

Biogenesis and Regulation of microRNA

Xuemei Chen, University of California, Riverside, USA

RNA Silencing Mechanisms in Plants

Short Talk(s) Chosen from Abstracts

Workshop 2

Short Talks Chosen from Abstracts

Small RNAs in Disease and Therapeutics

Eric N. Olson, University of Texas Southwestern Medical Center, USA

MicroRNA in Cardiovascular Diseases

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

MicroRNA in Cancer

Sonya D. Zabludoff, Regulus Therapeutics, USA

Talk Title to be Determined

Rachel E. Meyers, Anylam Pharmaceuticals Inc., USA

Talk Title to be Determined

Short Talk Chosen from Abstracts

Poster Session 2

MONDAY, FEBRUARY 3

Function of MicroRNA

Speaker to be Announced

Victor R. Ambros, University of Massachusetts, USA

MicroRNAs in Development and Stress Responses

David P. Bartel, Massachusetts Institute of Technology, USA

Systems Approaches to microRNA

Short Talk(s) Chosen from Abstracts

Workshop 3

Short Talks Chosen from Abstracts

Small Interfering RNAs

Andrew Fire, Stanford University, USA

Triggers and Limits to Amplification in RNAi

David C. Baulcombe, University of Cambridge, UK

Silencing in Plants

Eric A. Miska, University of Cambridge, UK

Small RNA Biogenesis

Kazufumi Mochizuki, Institute of Molecular Biotechnology of the

Austrian Academy of Sciences, Austria

Transgenerational Epigenetic Control in Tetrahymena

Poster Session 3

TUESDAY, FEBRUARY 4

Piwi-Interacting RNAs and Genome Control

Gregory J. Hannon, Cold Spring Harbor Laboratory, USA

Small RNAs in Mammalian Germline

Mikiko C. Siomi, University of Tokyo, Japan

piRNA Biogenesis in Insects

Julius Brennecke, IMBA - Institut für Molekulare Biotechnologie

GmbH, Austria

piRNA Pathway in Drosophila

William Theurkauf, University of Massachusetts Medical Center, USA

Organization of a Transposon Silencing Compartment

Short Talk(s) Chosen from Abstracts

Resources and Emerging Technologies

Speaker to be Announced

Michael Thomas McManus, University of California, San Francisco, USA

MicroRNA Knockout Mice

Sam Griffiths-Jones, University of Manchester, UK

miRBase, Deep Sequencing, and Arm Switching

Short Talk Chosen from Abstracts

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WEDNESDAY, FEBRUARY 5