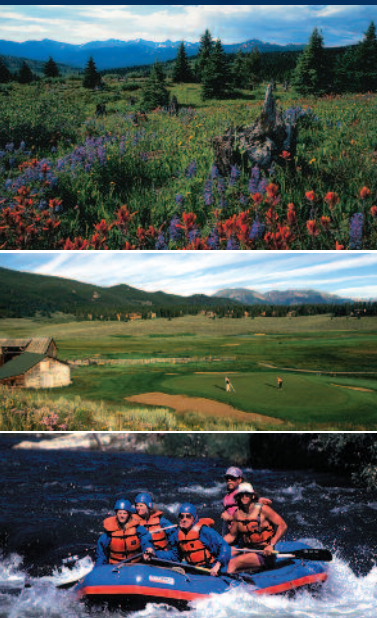


MicroRNA and Cancer

Keystone Resort • Keystone, Colorado, USA

June 10–15, 2009

cutting-edge science • cross-disciplinary interaction • networking opportunities • peer-reviewed meeting program



Organizers: Frank J. Slack and Amy E. Pasquinelli

Early Abstract & Scholarship Application Deadline: February 10, 2009

Late-Breaking Abstract Deadline: March 13, 2009

Early Registration Deadline: April 10, 2009

MicroRNAs have recently emerged as key regulators of gene expression during development and are frequently mis-expressed in human disease states, in particular cancer. MicroRNAs act to promote or repress cell proliferation, migration, and apoptosis during development, all processes that can go awry in cancer. Thus, microRNAs have the ability to behave like oncogenes or tumor suppressors. Their small size and molecular properties make miRNAs amenable as targets and therapeutics in cancer treatment. While hundreds of human microRNAs are known, relatively little is known about their roles and targets. This meeting will focus on the exciting biology of microRNAs in controlling developmental and cancer processes like cell proliferation, differentiation, cell cycle, apoptosis, and metastasis. It will also focus on the latest efforts to harness the power of these small RNAs as agents in the fight against cancer.

WEDNESDAY, JUNE 10

Keynote Address

Joan Massagué, Memorial Sloan-Kettering Cancer Center, USA

THURSDAY, JUNE 11

Regulation of Development by miRNAs

Alexander F. Schier, Harvard University, USA

Amy E. Pasquinelli, University of California, San Diego, USA

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

Eric C. Lai, Sloan-Kettering Institute, USA

Workshop 1: Bench to Bedside: Translating miRNA Discoveries into Clinical Applications

Short Talks to be Chosen from Abstracts

Gene Regulation by Non-Coding RNAs

John Mattick, University of Queensland, Australia

George A. Calin, University of Texas–M.D. Anderson Cancer Center, USA

Mark A. Kay, Stanford University, USA

FRIDAY, JUNE 12

MicroRNAs in Cancer

Curtis C. Harris, National Institutes of Health, USA

Frank J. Slack, Yale University, USA

Joshua Mendell, Johns Hopkins University, USA

Carlo M. Croce, Ohio State University, USA

Hot Topics in miRNA Research

Hannele Ruohola-Baker, University of Washington, USA

Christine Esau, Regulus Therapeutics, USA

Isidore Rigoutsos, International Business Machines Corporation, USA

SATURDAY, JUNE 13

Mechanisms of miRNA Form and Function

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

Marianthi Kiriakidou, University of Pennsylvania School of Medicine, USA

Alla Grishok, Columbia University Medical Center, USA

Michele A. Cleary, Rosetta Inpharmatics LLC, USA

Workshop 2: Emerging Ideas and Technologies in Small RNAs

Short Talks to be Chosen from Abstracts

Roles of Small RNAs in Cancer

Aurora Esquela-Kerscher, Eastern Virginia Medical School, USA

Bryan R. Cullen, Duke University Medical Center, USA

Judy Lieberman, Harvard Medical School, USA

SUNDAY, JUNE 14

MiRNAs as Diagnostics and Therapeutics

Elaine Fuchs, Howard Hughes Medical Institute, Rockefeller University, USA

Lin He, University of California, Berkeley, USA

Joanne B. Weidhaas, Yale University School of Medicine, USA

Scott M. Hammond, University of North Carolina at Chapel Hill, USA

Lessons from Developmental Biology

Allison L. Abbott, Marquette University, USA

Helge Großhans, Friedrich Miescher Institute (FMI), Switzerland

David Brown, Asuragen, Inc., USA

Program information current as of February 2, 2009. List of invited speakers and other program details subject to change. For up-to-date information, please visit www.keystonesymposia.org/9E1.

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