**TUESDAY, MAY 11**

**Welcoming Remarks and Keynote Address (6am Denver/Mountain Time Start)**

*David L. Spector*, Cold Spring Harbor Laboratory, USA  
*Edith Heard*, European Molecular Biology Laboratory, Germany  
*The Multiple Roles of Xist RNA and Its Partners during X-Chromosome Inactivation*

**Regulation of Long Noncoding RNA in Nuclear Condensates (6:40am Denver/Mountain Time Start)**

*Sarah D. Diermeier*, University of Otago, New Zealand  
*Tetsuro Hirose*, Osaka University, Japan  
*Prasanth V. Kannanganattu*, University of Illinois, USA  
*Jess Thin*, University of Otago, New Zealand  
*Ling-Ling Chen*, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, China  
*LincRNA SLERT Maintains Nucleolar Liquidity to Facilitate Pol I Transcription*

**Short Talk: Control of Transcriptional Condensates and Gene Expression by Local Long Noncoding RNAs**

*Jonathan E. Henninger*, Whitehead Institute for Biomedical Research, USA

**Short Talk: RNA Promotes the Formation of Spatial Compartments in the Nucleus**

*Sofia Quinodoz*, California Institute of Technology, USA

**Noncoding RNA in Therapeutics (8:35am Denver/Mountain Time Start)**

*Prasanth V. Kannanganattu*, University of Illinois, USA  
*David L. Spector*, Cold Spring Harbor Laboratory, USA  
*Sarah D. Diermeier*, University of Otago, New Zealand  
*Mammary Tumor Associated RNAs as Drivers of Tumor Cell Growth and Metastasis*  
*Allison Marly Porman Swain*, University of Colorado Anschutz Medical Campus, USA  
*Short Talk: A Single N6-methyladenosine Site in IncRNA HOTAIR Regulates Its Function in Breast Cancer Cells*  
*Dhiraj Kumar*, University of Texas MD Anderson Cancer Center, USA  
*Short Talk: LncRNA Malat1 Facilitates Breast Cancer Metastasis Dormancy and Reactivation by Immune Evasion*  
*Mark W. Feinberg*, Brigham and Women’s Hospital/Harvard Medical School, USA  
*Short Talk: LncRNA-Mediated Regulation of Vascular Senescence and Atherosclerosis*

**Career Roundtable (11am Denver/Mountain Time Start)**

*Howard Y. Chang*, Stanford University, USA  
*Lynne E. Maquat*, University of Rochester Medical Center, USA  
*Marco Marcia*, EMBL Grenoble, France

**Poster Session 1 (12:30pm Denver/Mountain Time Start)**

**WEDNESDAY, MAY 12**

**Mechanisms of Long Noncoding RNA Function (6am Denver/Mountain Time Start)**

*Jeremy E. Wilusz*, University of Pennsylvania, USA  
*Xiaohua Shen*, Tsinghua University, China  
*A Glimpse of ncRNA-mediated Transcription and Chromatin Regulation*  
*Xuetao Cao*, Nankai University and Chinese Academy of Medical Sciences, China  
*Functions of Long Noncoding RNAs in Innate Immunity*  
*Igor Ulitsky*, Weizmann Institute of Science, Israel  
*Functions of Long Noncoding RNAs in Mammalian Cells*  
*Juan Pablo Unfried*, University of Navarra, Spain  
*Short Talk: LncRNA NIHCOLE Promotes DNA Damage Repair of Hepatocellular Carcinoma Cells*  
*Rory Johnson*, University College Dublin, Ireland  
*Short Talk: Systematic Discovery and Characterization of Cis-Regulatory Long Noncoding RNAs*  
*Chun-Kan Chen*, Stanford University School of Medicine, USA  
*Short Talk: Structured Elements Drive Circular RNA Translation and Expand the Human Proteome*  
*Enhancer RNAs, Circular RNAs and Small RNAs (8:25am Denver/Mountain Time Start)**

*Xiaohua Shen*, Tsinghua University, China  
*Jeremy E. Wilusz*, University of Pennsylvania, USA  
*Harnessing Endonucleases to Control Gene Outputs*  
*Heidi Lempradl*, Van Andel Institute, USA  
*Short Talk: Intergenerational Metabolic Priming by Sperm piRNAs*  
*Sean E. McGeary*, Whitehead Institute / MIT, USA  
*Short Talk: Pairing to the MicroRNA 3′ Region Occurs through Two Alternative Binding Modes, with Affinity Shaped by Nucleotide Identity as well as Pairing Position*  
*Lamia Wahba*, Stanford University, USA  
*Short Talk: An Essential Role for the piRNA Pathway in Regulating the Ribosomal RNA Pool in C. elegans*

**Meet the Editors (11:30am Denver/Mountain Time Start)**

*Richard Hodge*, PLOS, UK  
*Emily Marcinkevicius*, Cell Reports Methods, USA  
*Di Jiang*, Science, USA  
*Esther Schnapp*, European Molecular Biology Organization, Germany  
*Elisa Zicola*, Frontiers Journals, UK

**THURSDAY, MAY 13**

*Session Chair † Invited but not yet accepted  Program current as of May 9, 2021.*

For the most up-to-date details, visit [https://www.keystonesymposia.org](https://www.keystonesymposia.org).
RNA Structure and Function (6am Denver/Mountain Time Start)
*Lydia M. Contreras*, University of Texas at Austin, USA
Anna Marie Pyle, Yale University, USA
Structure Insights into Noncoding RNA Function
Amanda E. Hargrove, Duke University, USA
Targeting Long Noncoding RNA with Small Molecules
*Matthew D. Simon*, Yale University, USA
Chemical Probing of RNA Structure in Cells
Marco Marcia, EMBL Grenoble, France
Structure-Functional Relationships in Long Non-Coding RNAs
Roza Kamila Przanowska, University of Virginia, USA
Short Talk: Linking MUNC IncRNA Structure with Its Function in Myogenesis

RNA Technologies (8:15am Denver/Mountain Time Start)
*Matthew D. Simon*, Yale University, USA
Howard Y. Chang, Stanford University, USA
Genome Regulation by Long Noncoding RNAs
Samie Jaffrey, Weill Medical College of Cornell University, USA
Highly Efficient Expression of Circular RNAs in Cells using Autocatalytic Transcripts
*Lydia M. Contreras*, University of Texas at Austin, USA
Expanding Roles and Targeting of ncRNAs via Novel in vivo Characterization Approaches
Qi Chen, University of California, Riverside, USA
Short Talk: PANDORA-seq Expands the Repertoire of Regulatory Small RNAs by Overcoming RNA Modifications
Junchao Shi, University of California, Riverside, USA
Short Talk: SPORTS1.1: A Tool for Annotating and Profiling Non-Coding RNAs Optimized for rRNA-and tRNA-Derived Small RNAs

Poster Session 2 (12:30pm Denver/Mountain Time Start)

FRIDAY, MAY 14
Noncoding RNA in Development and Disease (6am Denver/Mountain Time Start)
*Edward B. Chuong*, University of Colorado Boulder, USA
Joshua T. Mendell, University of Texas Southwestern Medical Center, USA
Noncoding RNAs in Post-Transcriptional Regulatory Circuits
*Lin He*, University of California, Berkeley, USA
Noncoding RNAs and Retrotransposons in Development
Erwei Song, Sun-Yat-Sen Memorial Hospital, China
IRENA Determines the Pro-Tumor and Anti-Tumor Properties of Inflammatory Macrophages
John L. Rinn, University of Colorado Boulder, USA
Long Noncoding RNA Regulation in Development
Mukesh Kumar Lalwani, University of Edinburgh, UK
Short Talk: Regulation of Cardiomyocyte Proliferation by LncRNA CARMN during Heart Regeneration in Zebrafish

Murat Can Kalem, University at Buffalo, State University of New York, USA
Short Talk: Long Noncoding RNA Regulation in Human Fungal Pathogen Cryptococcus neoformans

Repetitive RNAs in Gene Regulation (8:20am Denver/Mountain Time Start)
*Lin He*, University of California, Berkeley, USA
*Edward B. Chuong*, University of Colorado Boulder, USA
Retrotransposons as Regulators of Innate Immunity
Maria-Elena Torres-Padilla, Helmholtz Centre Munich, Germany
Transposon Regulation in Early Development
Lynne E. Maquat, University of Rochester Medical Center, USA
Loss of Fragile X Protein Results in Misregulation of Nonsense-Mediated mRNA Decay
Xuhang Liu, Rockefeller University, USA
Short Talk: A Pro-Metastatic tRNA Fragment Drives Nucleolin Oligomerization and Stabilization of Bound Metabolic mRNAs

Closing Remarks (9:50am Denver/Mountain Time Start)
Anna Marie Pyle, Yale University, USA

Networking Lounge (10am Denver/Mountain Time Start)