

VIRTUAL SYMPOSIUM

Main event: WebEx

Please note there are two URLs for WebEx- one for day one and one day two. These can be found in Eventbrite confirmation and on the website.

Virtual Poster Session: SpatialChat

Virtual Poster Hall



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Long Non-coding RNAs Symposium

From Basic Mechanism to Human Disease

A Virtual Symposium

March 11, 8:30 a.m. EST

March 12, 8:30 a.m. EST

nhlbiincrna.org

Program Guide



National Heart, Lung,
and Blood Institute

DAY 1

OPENING PROCEDURES

8:00 a.m.	Portal Opens
8:30 - 8:35 a.m.	Welcoming Remarks Haiming Cao, PhD National Heart, Lung, and Blood Institute, National Institutes of Health

SESSION I: LncRNAs: Basic Mechanism to Disease Moderators: Haiming Cao, PhD; Elizabeth Murphy, PhD

8:35 - 9:15 a.m.	Keynote: Long noncoding RNAs: past, present, and future Jeannie T. Lee, PhD, Massachusetts General Hospital
9:15 - 9:45 a.m.	LncRNA regulation of lipid metabolism and inflammation Kathryn J. Moore, PhD, New York University
9:45 - 10:15 a.m.	Linking lncRNAs with inflammation and fibrosis in diabetic complications Rama Natarajan, PhD, Beckman Research Institute of City of Hope
10:15 - 10:30 a.m.	BREAK
10:30 - 11:00 a.m.	In vivo functional analysis of non-conserved human lncRNAs associated with cardiometabolic rates Haiming Cao, PhD, National Heart, Lung, and Blood Institute, National Institutes of Health
11:00 - 11:30 a.m.	Challenges in translation of lncRNAs to human disease Muredach Reilly, MBBCh, MSCE, Columbia University
11:30 - 12:00 p.m.	LncRNA regulation of pancreatic islet cell functions Lori Sussel, PhD, University of Colorado
12:00 - 12:30 p.m.	Pitch Presentations
12:30 - 1:30 p.m.	BREAK

SESSION II: Non-coding RNAs, Genetics and Disease Moderators: Michael Sack, MD, PhD; Ashish Lal, PhD

1:30 - 2:00 p.m.	A thrifty micro RNA linked to human positive selection and metabolic diseases Anders Näär, PhD, University of California, Berkeley
2:00 - 2:30 p.m.	Noncoding RNAs in human populations Jane E. Freedman, MD, University of Massachusetts
2:30 - 3:00 p.m.	miR-33 in cardiometabolic diseases Carlos Fernandez-Hernando, PhD, Yale University
3:00 - 3:15 p.m.	BREAK
3:15 - 3:45 p.m.	LncRNA-mediated control of vascular senescence and atherosclerosis Mark W. Feinberg, MD, Brigham and Women's Hospital

3:45 - 4:15 p.m.	High throughput identification of smooth muscle cell lncRNAs and their association with transcription and disease risk in this cell type Thomas Quertermous, MD, Stanford University
4:15 - 4:45 p.m.	Lnc'ing non-coding RNA function to bone marrow failure Carl D. Novina, MD, PhD, Harvard Medical School
4:45 - 5:15 p.m.	Pitch Presentations
5:30 - 7:00 p.m.	Virtual Poster Session Minihill pro tet volum et, temp

DAY 2

8:00 a.m.	Portal Opens
8:30 - 8:35 a.m.	Opening Remarks

SESSION III: LncRNAs: Development, Differentiation, and Disease Moderators: Myriam Gorospe, PhD; Paul Hwang, MD, PhD

8:35 - 9:15 a.m.	Keynote: How do noncoding RNAs regulate other RNAs and RNA binding proteins? Joshua Mendell, MD, PhD, University of Texas Southwestern
9:15 - 9:45 a.m.	Explore the role of non-coding RNAs in adipose tissue Sun Lei, PhD, Duke-NUS Graduate Medical School
9:45 - 10:15 a.m.	Molecular dissection of dual mechanisms in a lncRNA subclass Daniel A. Lim, MD, PhD, University of California, San Francisco
10:15 - 10:30 a.m.	BREAK
10:30 - 11:00 a.m.	LncRNAs in cancer and differentiation: DRAIC and MUNC Anindya Dutta, MD, PhD, University of Virginia School of Medicine
11:00 - 11:30 a.m.	Function of noncoding RNA genome in cell cycle progression and cancer Kannanganattu V. Prasanth, PhD, University of Illinois
11:30 - 12:00 p.m.	Long noncoding RNAs in liver glucose homeostasis and metabolic disease Jan-Wilhelm Kornfeld, PhD, University of Southern Denmark
12:00 - 12:30 p.m.	Pitch Presentations
12:30 - 12:35 p.m.	Closing Remarks Robert S. Balaban, PhD National Heart, Lung, and Blood Institute, National Institutes of Health

MODERATORS

Haiming Cao, PhD, Chair
National Heart, Lung, and Blood Institute, NIH

Elizabeth Murphy, PhD
National Heart, Lung, and Blood Institute, NIH

Michael Sack, MD, PhD
National Heart, Lung, and Blood Institute, NIH

Myriam Gorospe, PhD
National Institute on Aging, NIH

Paul Hwang, MD, PhD
National Heart, Lung, and Blood Institute, NIH

Ashish Lal, PhD
National Cancer Institute, NIH

PITCH PRESENTERS

Jifan Hu, P3
Mitochondria-enriched long noncoding RNAs: a new class of epigenetic players in coordinating metabolic reprogramming in tumors

Marpadga Reddy, P14
Novel lncRNA DRAIR is downregulated in diabetic monocytes and modulates inflammatory phenotype via epigenetic mechanisms

Chuanxi Cai, P30
Long non-coding RNA Camirt plays a sentinel role in aging-related heart failure via interaction with Phb2 to modulate mitophagy signaling in the heart

Zhen Chen, P16
Chromatin-associated long non-coding RNAs regulate endothelial function in health and disease

Abhik Banerjee, P29
Beckwith-Wiedemann syndrome, Barr bodies, and binding proteins: The Kcnq1ot1 long non-coding RNA regulates genomic imprinting in a SHARP-dependent manner

MEETING REMARKS

Robert S. Balaban, PhD
National Heart, Lung, and Blood Institute, NIH

Haiming Cao, PhD, Chair
National Heart, Lung, and Blood Institute, NIH

Kunhua Song, P40
LncRNA controls cardiac function by regulating alternative splicing events in the heart

Roza Przanowska, P4
Functional characterization of MUNC lncRNA structural domains in context of skeletal muscle differentiation and gene expression regulation

Mahmoud Elguindy, P9
NORAD-induced phase separation of PUMILIO proteins is required for genome maintenance

Natalia Acevedo Luna, P51
Elucidating the trans-regulatory mechanisms of a long non-coding RNA during myogenesis