

4th Annual Non-Coding RNA Symposium 2023

(September 20-22, 2023)
University of Illinois Chicago

Wednesday, September 20, 2023, 8:00 am – 7:00 pm Central Standard Time

Registration: Opens at 8:00 am

Breakfast: 8:00 AM – 9:00 AM

9:00 am – 9:15 am

Welcome

Joanna Groden

Vice Chancellor for Research
University of Illinois Chicago

Susan Rowan

Interim Dean, College of Dentistry
University of Illinois Chicago

Session 1: Noncoding RNAs in Development and Physiology

Session Chair: Jeremy Wilusz

9:15 am – 10:00 am

Keynote Speaker

Sandra Wolin

National Cancer Institute

“Defective RNAs: Surveillance and Roles as Signaling Molecules”

10:00 am – 10:25 am

Luisa Cochella

Johns Hopkins University

“Dose dependent function of a microRNA family involved in tissue morphogenesis”

10:25 am – 10:50 am

Katherine McJunkin

National Institute of Diabetes and Digestive and Kidney Diseases

“Sequence-specific mechanisms of microRNA decay”

10:50 am – 11:15 am

Lin He

University of California Berkeley

“Transposons, selfish friends in mammalian development”

11:15 am – 11:45 am

Selected short talks from submitted abstracts

11:15 am – 11:25 am

Benjamin Jones

University of Texas Southwestern

“Target-Directed microRNA Degradation Regulates Developmental microRNA Expression and Embryonic Growth in Mammals”

11:25 am – 11:35 am

Raza Ali Naqvi

University of Illinois Chicago

“Genome-wide screening of SARS-CoV-2 ORFs Identified Multiple Viral Suppressor of RNAi”

11:35 am – 11:45 am

Gatikrushna Singh

University of Minnesota

“microRNA regulation of radiation resistance in Glioblastoma”

11:45 am – 1:00 pm

Lunch Break

(Lunch will be provided)

Wednesday, September 20, 2023

Session 2: Noncoding RNAs in Immunity and Host Defense

Session Chair: Sandra Wolin

- 1:10 pm – 2:00 pm **Keynote Speaker**
Mark Ansel
University of California San Francisco
“Noncoding RNA circuits in host defense and autoimmunity”
- 2:00 pm – 2:30 pm **Peter Sarnow**
Stanford University
“Pro-viral roles for virus-derived circular RNAs in hepatitis C virus-infected cells”
- 2:30 pm – 3:00 pm **Selena Sagan**
McGill University
“One microRNA to rule them all: the surprising tale of microRNA-mediated viral RNA accumulation”
- 3:00 pm – 3:30 pm** **Coffee Break**
- 3:30 pm – 4:30 pm **Plenary Lecture: Introduction by Dr. Victor Ambros**

Joshua Mendell
Howard Hughes Medical Institute Investigator
University of Texas Southwestern
“New functions and regulators of noncoding RNAs in mammals”
- 4:30 pm – 6:30 pm** **Poster Session, Networking, Snacks, and Beverages**

Thursday, September 21, 2023, 8:30 am – 4:30 pm Central Standard Time

Breakfast: 8:30 am – 9:30 am

Session 1: Noncoding RNAs in Cancer

Session Chair: **Andrea Kasinski**

9:30 am – 10:00 am

Jorge Henao-Mejia
University of Pennsylvania
“RNA-regulation of Tumor-Associated Macrophages”

10:00 am – 10:30 am

Pedro Batista
National Cancer Institute
“Re-wiring of RNA methylation by oncometabolites in kidney cancer”

10:30 am – 11:00 am

Prasanth Kannanganattu
University of Illinois Urbana-Champaign
“LncRNA regulates hypoxia-responsive RNA processing”

11:00 pm – 11:15 am

Coffee Break

11:15 am – 11:45 am

Shin-Yuan Cheng
Northwestern University
“Non-coding RNA regulation of Oncogenic Signaling in Glioma”

11:45 am – 12:15 pm

Jeremy Wilusz
Baylor College of Medicine
“Unexpected mechanisms that control the outputs of many genes”

12:15 pm – 12:45 pm

Selected short talks from submitted abstracts

12:15 pm – 12:25 pm

Hyun Min Jung
University of Illinois Chicago
“MicroRNA-mediated Lymphatic Control of Fluid Homeostasis”

12:25 pm – 12:35 pm

Vaishnavi Sidharthan
The Ohio State University
“Exploring the Druggability of the Catalytic RNase P RNA”

12:35 pm – 12:45 pm

Peng Teng
Emory University School of Medicine
“The human lncRNA GOMAFU suppresses neuronal interferon response pathways affected in neuropsychiatric diseases”

12:45 pm – 1:45 pm

Lunch Break
(Lunch will be provided)

Session 2: Cutting-edge Technologies

Session Chair: **Luisa Cochella**

1:45 pm – 2:30 pm

Venkat Gopalan

The Ohio State University

“Structural basis for impaired 5’ processing of a mutant tRNA associated with neurodegeneration”

2.30 pm – 3.00 pm

Subrata Panja

Quantabio

“Accelerating Genomics Discoveries by Cutting Edge NGS and Amplification Technologies from Quantabio”

3:00 pm – 3:20 pm

Sriram Ravindran

University of Illinois Chicago

“miRNA Based MSC EV Engineering for Regenerative Medicine”

3:20 pm – 3:45 pm

Coffee Break

3:45 pm – 5:00 pm

Career Development Panel Discussion

Dr. Victor Ambros

Silverman Professor of Natural Sciences

UMass Chan Medical School

Dr. Subrata Panja

Associate Director Field Applications

Quantabio

Dr. Monika Franco

Policy Analyst, Public Policy & Advocacy

Association for Molecular Pathology

Friday, September 22, 2023, 8:30 am – 1:30 pm Central Standard Time

Breakfast: 8:30 am – 9:30 am

Session 1: Noncoding RNAs in Diagnostics and Therapeutics

*Session Chair: **Roopa Biswas***

- 9:30 am – 10:30 am **Keynote Speaker**
Saumya Das
Harvard Medical School
“Extracellular RNAs: biomarkers and probes for novel disease-related pathways”
- 10:30 am – 11:00 am **Andrea Kasinski**
Purdue University
“To the tumor and beyond: tales of a holistic microRNA delivery vehicle”
- 11:00 am – 11:30 am **Quamarul Hassan**
University of Alabama School of Dentistry
“LncRNA Dio3os: a missing link between thyroid hormone signaling and skeletogenesis”
- 11:30 am – 12:00 pm **Larisa Nonn**
University of Illinois Chicago
“Prostate-derived circulating microRNAs add prognostic value to prostate cancer risk calculators”
- 12:00 pm – 12:30 pm **Awards (Short talks and Poster presentation)**
Concluding Remarks
Ana Bedran-Russo, Associate Dean for Research, UIC COD
Michael Schmerman, Interim Department Head, UIC COD
- 12:30 pm – 1:30 pm Networking, snacks, and beverages**



UNIVERSITY OF
ILLINOIS CHICAGO

College of Dentistry