Abstracts of papers presented
at the 2024 Cold Spring Harbor Asia Conference

RNA BIOLOGY

September 2–September 6, 2024

Arranged by

Javier Caceres, *The University of Edinburgh*
Ling-Ling Chen, *Shanghai Institute of Biochemistry & Cell Biology, CAS*
Adrian Krainer, *Cold Spring Harbor Laboratory*
Yukihide Tomari, *The University of Tokyo*

Cold Spring Harbor Conferences Asia
Cold Spring Harbor Laboratory

RNA BIOLOGY
Monday, September 2 – Friday, September 6, 2024

Monday	7:00 pm	**1** Small Non-coding RNAs Keynote Speaker
Tuesday	9:00 am	**2** Long Non-coding and Circular RNAs
Tuesday	2:00 pm	**Poster Session**
Tuesday	3:00 pm	*Chinese Tea and Beer Tasting*
Tuesday	7:00 pm	**3** RNA Processing
Wednesday	9:00 am	**4** RNA Surveillance and Translation
Wednesday	2:00 pm	*Visit to Old Suzhou**
Wednesday	7:00 pm	**5** RNA in Condensates
Thursday	9:00 am	**6** RNA and RNP Structures
Thursday	2:00 pm	**7** New Technologies in RNA Biology
Thursday	6:00 pm	*Cocktails and Banquet*
Friday	9:00 am	**8** RNA in Disease and Therapeutics Keynote Speaker

Oral presentation sessions are located in the CSHA Auditorium
Poster session and Chinese Tea & Beer Tasting are in the Lake Front Hall.
Cocktail social hour is held outside in the Suz Garden.
Old Suzhou visits depart from the CSHA lobby
**optional tour requires additional fee.*

Meal locations and times are as follows:
Lunch: Main Cafeteria 12:00am - 1:30pm
Dinner: Main Cafeteria 6:00pm - 7:30pm
Banquet: Suz Garden 7:00pm

More information will be available at CSHA office.
(Map at the end of this abstract book)

PROGRAM

MONDAY, September 2—7:00 PM

SESSION 1 SMALL NON-CODING RNAs

Chairperson: **Yukihide Tomari,** The University of Tokyo, Tokyo, Japan

KEYNOTE SPEAKER

TUESDAY, September 3—9:00 AM

SESSION 2 LONG NON-CODING AND CIRCULAR RNAs

Chairperson: **Woan-Yuh Tarn,** Academia Sinica, Taipei, Taiwan

TUESDAY, September 3—2:00 PM

POSTER SESSION

TUESDAY, September 3—3:00 PM

Chinese Tea and Beer Tasting

SESSION 3 RNA PROCESSING

Chairperson: **Javier F. Caceres,** The University of Edinburgh, Edinburgh, United Kingdom

WEDNESDAY, September 4—9:00 AM

SESSION 4 RNA SURVEILLANCE AND TRANSLATION

Chairperson: **Thomas Preiss,** The Australian National University, Canberra, Australia

WEDNESDAY, September 4—2:00 PM

Visit to Old Suzhou

WEDNESDAY, September 4—7:00 PM

SESSION 5 RNA IN CONDENSATES

Chairperson: **Tetsuro Hirose,** Osaka University, Suita, Japan

THURSDAY, September 5—9:00 AM

SESSION 6 RNA AND RNP STRUCTURES

Chairperson: **Xinshu Grace Xiao,** University of California-Los Angeles, Los Angeles, California

SESSION 7 NEW TECHNOLOGIES IN RNA BIOLOGY

Chairperson: **Juan Valcárcel,** ICREA and Center for Genomic Regulation (CRG), Barcelona, Spain

Development of hydrophobic tag purifying monophosphorylated RNA for chemical synthesis of capped mRNA and enzymatic synthesis of circular mRNA
Mami Ototake, Masahito inagaki, Seigo Kimura, Kaoru Kimura, Daisuke Kawaguchi, Hirotaka Murase, Mizuki Tada, Kosuke Fukuchi, Yinuo Gao, Kengo Kokubo, Susit Acharyya, Zheyu Meng, Tatsuma Ishida, Naoko Abe, Fumitaka Hashiya, Yashuaki Kimura, Hiroshi Abe [10'+5']
Presenter affiliation: Graduate School of Science, Nagoya University, Nagoya, Japan. 78

Circular RNA-based protein replacement therapy mitigates osteoarthritis
Jinlong Suo, Ling Li, Wuyuan Tan, Youkui Huang, Guanghua Lei, Lingling Chen, Weiguo Zou [10'+5']
Presenter affiliation: Key Laboratory of RNA Innovation, Science and Engineering, CAS Center for Excellence in Molecular Cell Science, Shanghai, China; School of Life Science and Technology, Shanghai, China. 79

THURSDAY, September 5—6:00 PM

COCKTAILS and BANQUET

FRIDAY, September 6—9:00 AM

SESSION 8 RNA IN DISEASE AND THERAPEUTICS

Chairperson: **Ling-Ling Chen,** Shanghai Institute of Biochemistry and Cell Biology, CAS, Shanghai, China

KEYNOTE SPEAKER

Antisense therapy for H3.3K27M-related diffuse midline glioma
Adrian R. Krainer [35'+10']
Presenter affiliation: Cold Spring Harbor Laboratory, Cold Spring Harbor, New York. 80