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

DNA METABOLISM, GENOMIC STABILITY & HUMAN DISEASE

June 3–June 7, 2024

Arranged by

Antony Carr, *University of Sussex*
Daochun Kong, *Peking University*
Zhenkun Lou, *Mayo Clinic*
Patrick Sung, *University of Texas Health Science Center at San Antonio*
Stephen West, *The Francis Crick Institute*

Cold Spring Harbor Conferences Asia
Cold Spring Harbor Laboratory

DNA METABOLISM, GENOMIC STABILITY & HUMAN DISEASE

Monday, June 3 – Friday, June 7, 2024

Monday	7:00 pm	**1** Keynote Session
Tuesday	9:00 am	**2** DNA Repair
Tuesday	2:00 pm	**Poster Session**
Tuesday	3:00 pm	*Chinese Tea and Beer Tasting*
Tuesday	7:00 pm	**3** DNA Replication
Wednesday	9:00 am	**4** DNA Replication and Replication Stress
Wednesday	2:00 pm	*Visit to Old Suzhou**
Wednesday	7:00 pm	**5** Cell Cycle and Checkpoints
Thursday	9:00 am	**6** Mutagenesis and Genome Instability
Thursday	2:00 pm	**7** Human Disease and Therapy
Thursday	6:00 pm	Cocktails and Banquet
Friday	9:00 am	**8** RNA and DNA Repair

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, June 3—7:00 PM

SESSION 1 KEYNOTE SESSION

Introduction by: **Daochun Kong,** Peking University, Beijing, China

Double strand break repair—Structures, functions and insights into cancer therapy
Stephen C. West [45'+10']
Presenter affiliation: The Francis Crick Institute, London, United Kingdom. 1

Introduction by: **Patrick Sung,** University of Texas Health Science Center, San Antonio, Texas, USA

Replication-coupled and canonical DNA double strand breaks are processed by distinct mechanisms
Andre Nussenzweig [45'+10']
Presenter affiliation: National Institutes of Health, Bethesda, Maryland. 2

TUESDAY, June 4—9:00 AM

SESSION 2 DNA REPAIR

Chairpersons: **Wei Yang,** National Institutes of Health, Bethesda, Maryland, USA
Patrick Sung, University of Texas Health Science Center, San Antonio, Texas, USA

Promotion of DNA end resection by the BRCA1-BARD1 tumor suppressor complex in homologous recombination
Sameer Salunkhe, James M. Daley, Chaoyou Xue, Nozomi Tomimatsu, Hardeep Kaur, Vivek Raina, Eric Greene, Sandeep Burma, Patrick Sung [20'+6']
Presenter affiliation: University of Texas Health Science Center at San Antonio, San Antonio, Texas. 3

POSTER SESSION

TUESDAY, June 4—3:00 PM

Chinese Tea and Beer Tasting

SESSION 3 DNA REPLICATION

Chairpersons: **Dana Branzai,** IFOM ETS, Milan, Italy
Jiazhi Hu, Peking University, Beijing, China

SESSION 4 DNA REPLICATION AND REPLICATION STRESS

Chairpersons: **Andres Aguilera,** Universidad de Sevilla, Seville, Spain
Qing Li, Peking University, Beijing, China

WEDNESDAY, June 5—2:00 PM

Visit to Old Suzhou

WEDNESDAY, June 5—7:00 PM

SESSION 5 CELL CYCLE AND CHECKPOINTS

Chairpersons: **Junjie Chen,** The University of Texas MD Anderson Cancer Center, Houston, Texas, USA
Hisao Masai, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan

Break

THURSDAY, June 6—9:00 AM

SESSION 6 MUTAGENESIS AND GENOME INSTABILITY

Chairpersons: **Zhenkun Lou,** Mayo Clinic, Rochester, Minnesota, USA
Anna Malkova, University of Iowa, Iowa City, Iowa, USA

SESSION 7 HUMAN DISEASE AND THERAPY

Chairpersons: **Keith Caldecott,** University of Sussex, Sussex, United Kingdom
Caixia Guo, Chinese Academy of Sciences, Beijing, China

THURSDAY, June 6—6:00 PM

COCKTAILS and BANQUET

FRIDAY, June 7—9:00 AM

SESSION 8 RNA AND DNA REPAIR

Chairpersons: **Dipanjan Chowduary,** Harvard Medical School, Boston, Massachusetts, USA
Jie Ren, Chinese Academy of Sciences and China National Center for Bioinformation, Beijing, China