Abstracts of papers presented
at the 2025 Cold Spring Harbor Asia Conference

NUCLEAR ARCHITECTURE AND FUNCTION

September 1–September 5, 2025

Arranged by

Christina Leslie, *Memorial Sloan-Kettering Cancer Center*
Yijun Ruan, *Zhejiang University*
Wei Xie, *Tsinghua University*
Julia Zeitlinger, *Stowers Institute for Medical Research*

Cold Spring Harbor Conferences Asia
Cold Spring Harbor Laboratory

NUCLEAR ARCHITECTURE AND FUNCTION
Monday, September 1 – Friday, September 5, 2025

Monday	7:00 pm	Opening Remarks • **Keynote Speaker I** **1** Emerging Frontiers in 3D Genomics
Tuesday	9:00 am	**2** Computational and Experimental Technologies • Flash Talks
Tuesday	2:00 pm	**Poster Session**
Tuesday	3:00 pm	*Chinese Tea and Beer Tasting*
Tuesday	7:00 pm	**3** 3D Genome Imaging
Wednesday	9:00 am	**4** Genome Organization in Diseases
Wednesday	1:30 pm	*Visit to Old Suzhou**
Wednesday	7:00 pm	**5** Genome Architecture in Development
Thursday	9:00 am	**6** Nuclear Organization
Thursday	2:00 pm	**7** 3D Genome and Gene Regulation I • **Keynote Speaker II**
Thursday	5:00 pm	*Cocktails and Banquet*
Friday	9:00 am	**8** 3D Genome and Gene Regulation II

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 12:00pm - 1:30pm
Dinner: Main Cafeteria 6:00pm - 7:30pm
Banquet: Suz Garden 6:00pm

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

PROGRAM

MONDAY, September 1—7:00 PM

Opening Remarks

SESSION 1 EMERGING FRONTIERS IN 3D GENOMICS

Chairperson: **Yijun Ruan,** Zhejiang University, Hangzhou, China

KEYNOTE SPEAKER

Genome-wide single-cell and single-molecule foot printing of transcription factors with deaminase
Xiaoliang Sunney Xie [35'+10']
Presenter affiliation: Peking University, Beijing, China; Changping Laboratory, Beijing, China. 1

Enhancer-hijacking and 3D genome alteration in human cancer
Feng Yue [20'+10']
Presenter affiliation: Northwestern University, Chicago, Illinois. 2

Genome-wide profiling of histone modifications and transcription factor binding at single-cell resolution by DeChIC-seq
Zhifei Shi, Xiyang Chen, Yijia Yang, Ang Wu, Heng Wang, Kai Chen, Chong Li, Lina Zou, Zhipeng Qu, Yuyan Zhao, Wenjing Gan, Hong Wang, Jia-min Zhang, Chenfei Wang, Xiaoyu Liu, Shaorong Gao [10'+5']
Presenter affiliation: Tongji University, Shanghai, China; Shanghai Tongji Hospital, Shanghai, China. 3

Early transient and resolved interactions modulate developmental gene activation
Angelika Feldmann [10'+5']
Presenter affiliation: German Cancer Research Center (DKFZ), Heidelberg, Germany. 4

SESSION 2 COMPUTATIONAL AND EXPERIMENTAL TECHNOLOGIES

Chairperson: **Julia Zeitlinger,** Stowers Institute for Medical Research, Kansas City, Missouri, USA

Looping or condensation—Live-cell imaging of dynamic transcriptional condensates and bursting
Wulan Deng [20'+10']
Presenter affiliation: Peking University, Beijing, China. 5

Integrative views of the single-Cell 3D epigenome
Jian Ma [20'+10']
Presenter affiliation: Carnegie Mellon University, Pittsburgh, California. 6

Decoding enhancer rewiring in pancreatic differentiation
Christina S. Leslie [20'+10']
Presenter affiliation: Memorial Sloan-Kettering Cancer Center, New York, New York. 7

Coffee Break

Decoding gene regulatory programs of astrocyte development
Inkyung Jung [20'+10']
Presenter affiliation: Korea Advanced Institute of Science and Technology , Daejeon, South Korea. 8

Boosting the detection of enhancer-promoter loops via novel normalization methods for chromatin interaction data
Xiaotao Wang, Detong Shi, Feiyang Xue, Yunxia Liu, Hongbo Yang, Linghan Jiang [10'+5']
Presenter affiliation: Fudan University, Shanghai, China. 9

FLASH TALKS

RDD—A novel technology to decipher RNA-mediated chromatin interactions and gene regulation
Simon Z. Tian, Yang Yang, Duo Ning, Ting Yu, Ke Fang, Tong Gao, Gengzhan Chen, Yuqing Deng, Haibo Huang, Shaohong Zhang, Zhenxia Chen, Wei Chen, Guoliang Li, Yijun Ruan, Yiming Li, Fuxing Zeng, Ruilin Tian, Meizhen Zheng [2']
Presenter affiliation: Southern University of Science and Technology, Shenzhen, China. 10

Decoding the MAZ-RNA interplay in nuclear speckle dynamics
Seongwoo Kim, Inkyung Jung [2']
Presenter affiliation: Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea. 11

Cell type specific chromatin architecture in rice revealed by single-cell Hi-C
Ying Zhang, Wenxuan Wang [2']
Presenter affiliation: Huazhong Agriculture University, Wuhan, China. 12

Fluctuations in DNA packing density drive the spatial segregation between euchromatin and heterochromatin
Luming Meng, Boping Liu, Qiong Luo [2']
Presenter affiliation: South China Agricultural University, Guangzhou, China. 13

Lamin A/C safeguards replication initiation by orchestrating chromatin accessibility and PCNA recruitment
Mengling Zhang, Wenxue Zhao, Zhiguang Xiao, Lei Chang, Xiaotian Wang, Yichen Bai, Tianyan Liu, Yongzheng Li, Qing Li, Cheng Li, Dongyi Xu, Qian P. Su, Yujie Sun [2']
Presenter affiliation: Peking University, Beijing, China. 14

Methyl-metabolite depletion relaxes 3D genome structures and facilitates totipotent reprogramming
Tianchang Yang, Lincheng Li, Jingru Zhao, Ruoqi Cheng, Hebing Chen, Minglei Shi, Jun Xu, Cheng Li [2']
Presenter affiliation: Peking University, Beijing, China. 15

Topological reprogramming of rhythmic genome—3D epigenetic coordination underlies transcriptional dynamics in rice
Ying Zhang, Xingwang Li, Jiapei Yan [2']
Presenter affiliation: Huazhong Agricultural University, Wuhan, China. 16

Dissecting 3D gene regulatory networks of mechanoCRE-mediated neuroinflammation in microglia
Jaegeon Joo, Yu Xuan Meng, Jung-Hwan Lee, Hae-won Kim, Inkyung Jung [2']
Presenter affiliation: Korea Advanced Institute of Science and Technology, Daejeon, South Korea. 17

POSTER SESSION

RDD—A novel technology to decipher RNA-mediated chromatin interactions and gene regulation
Simon Z. Tian, Yang Yang, Duo Ning, Ting Yu, Ke Fang, Tong Gao, Gengzhan Chen, Yuqing Deng, Haibo Huang, Shaohong Zhang, Zhenxia Chen, Wei Chen, Guoliang Li, Yijun Ruan, Yiming Li, Fuxing Zeng, Ruilin Tian, Meizhen Zheng
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Presenter affiliation: Korea Advanced Institute of Science and Technology, Daejeon, South Korea. 17

Characterization of the liquid-liquid phase separation ability of Hd1 and Ghd7
Mengxing Cao
Presenter affiliation: Huazhong Agriculture University, Wuhan, China. 18

tagNucleo-C reveals nucleolus-associated chromatin interaction dynamics during cancer progression
Qing Fang, Yangyinghui Yu, Ting Peng, Jia Wang, Cheng Li
Presenter affiliation: Peking University, Beijing, China. 19

3D genome folds totipotency and pluripotency
Yu Fu, Wenyu Ma, Zheting Zhang
Presenter affiliation: Westlake University, Hangzhou, China. 20

A live-cell imaging strategy to quantify chromatin access and compaction dynamics
Nazanin Ghaderi Nejad, Xiaomeng Zhang, Elizabeth Hinde
Presenter affiliation: University of Melbourne, Melbourne, Australia. 21

Spatially-resolved gene expression programs in Alzheimer's disease brain
Seyoung Jin, Inkyung Jung
Presenter affiliation: Korea Advanced Institute of Science and Technology(KAIST), Daejeon, South Korea. 22

Low frequency ultrasound effects on aging genome functions
Sanjay Kureel, Michael P. Sheetz, Linda J. Kenney
Presenter affiliation: Mechanobiologics, Santa Fe, New Mexico. 23

Dissecting the unique and shared roles of MAZ and CTCF in organizing genome-speckle interactions
SangHyun Lee, Jifeng Yang, Jaegeon Joo, Chunliang Li, Inkyung Jung
Presenter affiliation: Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea. 24

Human-in-the-loop framework for supervised chromatin domain detection
Li Li, Wei Shen
Presenter affiliation: Huazhong Agricultural University, Wuhan, China. 25

A chromatin–RNA interface orchestrates nuclear compartmentalization and function
Siyang Li, Xiaohua Shen
Presenter affiliation: Tsinghua University, Beijing, China. 26

Paired-Tag and CUT&Tag for single-cell epigenomics—Practical strategies, technical considerations, and novel biological insights
Christopher Hartl, Camila Saldanha, Haruhiko Ishii, Pei Lin
Presenter affiliation: Epigenome Technologies, Inc, San Diego, California. 27

HiR is an efficient approach for capturing in situ RNA-RNA spatial interactions
Shiping Luan, Runxin Gao
Presenter affiliation: Huazhong Agricultural University, Wuhan, China; National Key Laboratory of Crop Genetic Improvement, Wuhan, China; Hubei Hongshan Laboratory, Wuhan, China. 28

ChromaCRY—A novel optogenetic tool for unlocking knowledge into chromatin compaction
Shikun Ma, Elizabeth Hinde Hinde
Presenter affiliation: University of Melbourne, Melbourne, Australia. 29

GEM-Finder—Dissecting GWAS variants via long-range interacting cis-regulatory elements with differentiation-specific genes
Gyeongsik Park, Andrew J. Lee, Inkyung Jung
Presenter affiliation: Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea. 30

ChromMovie—A molecular dynamics approach for simultaneous modeling of chromatin conformation changes from multiple single-cell Hi-C maps
Krzysztof H. Banecki, Haoxi Chai, Yijun Ruan, Dariusz Plewczynski
Presenter affiliation: Warsaw University of Technology, Warsaw, Poland; Univesity of Warsaw, Warsaw, Poland. 31

RepliSage—A stochastic graph-based framework for 3D chromatin modeling across the cell cycle
Sevastianos Korsak, Krzysztof H. Banecki, Karolina Buka, Abhishek Agarwal, Joanna Borkowska, Haoxi Chai, Piotr J. Górski, Yijun Ruan, Dariusz Plewczynski
Presenter affiliation: Warsaw University of Technology, Warsaw, Poland; University of Warsaw, Warsaw, Poland. 32

Epigenomic and 3D genomic basis of subgenome divergence in allopolyploid cotton fiber development
Maojun Wang
Presenter affiliation: National Key Laboratory of Crop Genetic Improvement, Wuhan, China. 33

Transcription shapes ribonucleoprotein mesh morphology and dynamics at global and local scales in the nucleus
Kaiyuan Yan, Hanyi Li, Yuansheng Cao, Xiaohua Shen
Presenter affiliation: Tsinghua University, Beijing, China. 34

Development and validation of a digital immunoassay for ultra-sensitive detection of plasma Aβ1–42/Aβ1–40 in Alzheimer's disease
Yu Zhou, Li Chen, Wei-shan Chen, Pei Lin, Dajun Yuan
Presenter affiliation: Videns Biosciences inc., San Diego, California. 35

Transcription drives L1-rich heterochromatin formation at the nucleolar periphery
Ge Zhan, Yibing Tao, Jiaxin Wu, Zirong Wang, Zhonghuai Hou, Xiaohua Shen
Presenter affiliation: Tsinghua University, Beijing, China. 36

TUESDAY, September 2—3:00 PM

Chinese Tea and Beer Tasting

TUESDAY, September 2—7:00 PM

SESSION 3 3D GENOME IMAGING

Chairperson: **Wei Xie,** Tsinghua University, Beijing, China

Super resolution imaging and modeling to uncover 3D genome organization and chromatin looping
Maria Pia Cosma [20'+10']
Presenter affiliation: Centre for Genomic Regulation (CRG), Barcelona, Spain. 37

SOX2 choreography during the Nanog locus transcription in live cell at single molecule resolution
Mathias Francois [20'+10']
Presenter affiliation: The University of Sydney, Sydney, Australia. 38

Linker histone H1 functions as a liquid-like glue to organize chromatin in living human cells
Kazuhiro Maeshima [20'+10']
Presenter affiliation: National Institute of Genetics, Mishima, Japan; Genetics Course, Mishima, Japan. 39

Imaging, quantifying and mapping human chromatin remodeler dynamics—From phase-separation-mediated intranuclear organization to cancer-mutant-specific regulatory landscape
Ziqing Winston Zhao [10'+5']
Presenter affiliation: National University of Singapore, Singapore. 40

WEDNESDAY, September 3—9:00 AM

SESSION 4 GENOME ORGANIZATION IN DISEASES

Chairperson: **Christina Leslie,** Memorial Sloan-Kettering Cancer Center, New York, USA

From beer to the clinic—Targeting therapeutic vulnerabilities regulated by 3D genome organization in cancer
Benjamin Lebeau, Prachi Amuley, Crystal Ling, Melissa Fullwood [20'+10']
Presenter affiliation: Nanyang Technological University, Singapore. 41

Advancing multi-omic genomic technologies for insights into genome variation, chromatin organization, and human disease
Meng Zhang, Chee Hong Wong, Meng-Fan Huang, Aziz Taghbalout, Christian D. Frazar, Joshua D. Smith, Chia-Lin Wei [20'+10']
Presenter affiliation: University of Washington, Seattle, Washington. 42

Targeting 3D genome changes in Alzheimer's disease
Junchen Chen, Ming Xu, Qiuyang Wu, Mufei Li, Sheng Zhong [20'+10']
Presenter affiliation: University of California San Diego, La Jolla, California. 43

Coffee Break

Assembly of higher-order oncogenic chromatin architectures by phase separation in colorectal cancer
Jia Wang [10'+5']
Presenter affiliation: Guangzhou Medical University, Guangzhou, China. 44

3D genome organization and transcriptional regulation of noncoding GWAS SNPs in cancer
Leiming Cao, Le Wang, Jiapei Yuan [10'+5']
Presenter affiliation: Chinese Academy of Medical Sciences and Peking Union Medical College, Tianjin, China. 45

Tet1 releasing of variable exon self-locking chromatin loops licenses clustered protocadherin isoform choice
Qiang Wu [20'+10']
Presenter affiliation: Shanghai Jiao Tong University, Shanghai, China. 46

BRCA1 vs. 53BP1—Balancing chromatin structure and mobility in DNA repair
Jieqiong Lou, Julissa S. Velasquez, Saul M. Cardenas, Ashleigh N. Solano, Xiaomeng Zhang, Elizabeth Hinde [10'+5']
Presenter affiliation: University of Melbourne, Melbourne, Australia. 47

WEDNESDAY, September 3—1:30 PM

Visit to Old Suzhou

SESSION 5 GENOME ARCHITECTURE IN DEVELOPMENT

Chairperson: **Eileen Furlong,** EMBL, Heidelberg, Germany

Establishing the epigenome in early mammalian development
Wei Xie [20'+10']
Presenter affiliation: Tsinghua University, Beijing, China. 48

Controlling CpG islands
Dirk Schübeler [20'+10']
Presenter affiliation: Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland. 49

Structural variants rewire 3D genome architecture in primate brain evolution
Shilong Zhang, Feifei Zhou, Yafei Mao [10'+5']
Presenter affiliation: Shanghai Jiao Tong University, Shanghai, China. 50

Bivalent control of composite transposons regulates cell fate transitions
Ziqiang Zhou, Shicong Zhu, Hsiang-Ying Lee, Nian Liu [10'+5']
Presenter affiliation: Tsinghua University, Beijing, China. 51

Transcription-dependent chromatin domains in lampbrush chromosomes as revealed by 3D genomics and microscopic visualization
Alla Krasikova, Veniamin Fishman, Timofey Lagunov, Maria Gridina, Artem Nurislamov, Tatiana Kulikova, Antonina Maslova, Viktor Konstantinov, Andrey Popov [10'+5']
Presenter affiliation: Saint-Petersburg State University, Saint-Petersburg, Russia. 52

SESSION 6 NUCLEAR ORGANIZATION

Chairperson: **Melissa Fullwood,** Nanyang Technological University, Singapore

DNA-instructed and transcription-driven genome organization
Xiaohua Shen [20'+10']
Presenter affiliation: Tsinghua University, Beijing, China. 53

Exploring the impact of retrotransposons on higher-order chromatin structure regulation
Danny Leung [20'+10']
Presenter affiliation: The Hong Kong University of Science and Technology, Hong Kong, China. 54

Motif-driven nucleosome positioning represses chromatin accessibility
Kaelan J. Brennan, Melanie Weilert, Cathy McKinney, Julia Zeitlinger [20'+10']
Presenter affiliation: Stowers Institute for Medical Research, Kansas City, Missouri; The University of Kansas Medical Center, Kansas City, Kansas. 55

Coffee Break

The LDB1/SSBP3 complex can establish spatial connectivity in the absence of loop extrusion
Nicholas Aboreden, Xiaokang Wang, Han Zhao, Fengnian Shan, Fuhai Liu, Ying Cai, Lalitha Nagarajan, Stephen Brandt, Belinda M. Giardine, Ross C. Hardison, Cheryl A. Keller, Haoyue Zhang, Gerd A. Blobel [20'+10']
Presenter affiliation: The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania. 56

The evolution of high-order genome architecture revealed from 1,000 species
Yizhuo Che, Stephen J. Bush, Hui Lin, Xiaofei Yang, Qi Xie, Yuchun Liu, Deyu Meng, Kai Ye [10'+5']
Presenter affiliation: Xi'an Jiaotong University, Xi'an, China; Leiden University, the Netherlands. 57

Aging-associated SATB1 deficiency remodels 3D genome architecture and transcriptional programs in naïve CD4$^+$ T cells
Bao Wang, Qian Bian [10'+5']
Presenter affiliation: Shanghai Jiao Tong University School of Medicine, Shanghai, China. 58

Establishment of chromatin architecture interplays with embryo hypertranscription
Guang Yu, Kai Xu, Weikun Xia, Ke Zhang, Qianhua Xu, Lijia Li, Zili Lin, Ling Liu, Bofeng Liu, Zhenhai Du, Xia Chen, Qiang Fan, Fangnong Lai, Feng Kong, Chao Wang, Haiqiang Dai, Huili Wang, Wei Xie [10'+5'] 59
Presenter affiliation: Tsinghua University, Beijing, China.

THURSDAY, September 4—2:00 PM

SESSION 7 GENOME AND GENE REGULATION I

Chairperson: **Angelica Feldmann,** German Cancer Research Center (DKFZ), Heidelberg, Germany

Mechano-genomics of cell-fate decisions
G V. Shivashankar [20'+10']
Presenter affiliation: ETH Zurich, Zurich, Switzerland; PSI, Villigen, Switzerland. 60

Reconfiguration of genome-lamina interactions marks the commissioning of limb cell-fates
Jop Kind [20'+10']
Presenter affiliation: Royal Netherlands Academy of Arts and Sciences (KNAW) and University Medical Center Utrecht, Utrecht, the Netherlands; Oncode Institute, Utrecht, the Netherlands; Radboud Institute for Molecular Life Sciences, Nijmegen, the Netherlands. 61

Upregulated NIPBL shapes *Igh* repertoire by driving extrusion direction switching
Xuxu Ding, Fangtai Jiao, Qiqi Jin, Yawei Song, Longhao Zou, Shunchao Zhou, Wei Wu, Luonan Chen, Hai-Qiang Dai [10'+5']
Presenter affiliation: Shanghai Institute of Biochemistry and Cell Biology, Center for Excellence in Molecular Cell Science, Shanghai, China. 62

Spatial control of promoter-proximal termination by Integrator–PP2A (INTAC)
Fei Xavier Chen [10'+5']
Presenter affiliation: Fudan University, Shanghai, China. 63

Coffee Break

Liquid-liquid phase separation as meta-enzyme for gene regulation
Kai Huang [10'+5']
Presenter affiliation: Shenzhen Bay Laboratory, Shenzhen, China. 64

KEYNOTE SPEAKER

Going loopy studying enhancer-promoter communication
Eileen Furlong [35'+10']
Presenter affiliation: European Molecular Biology Laboratory (EMBL), Heidelberg, Germany. 65

THURSDAY, September 4—5:00 PM

COCKTAILS and BANQUET

FRIDAY, September 5—9:00 AM

SESSION 8 3D GENOME AND GENE REGULATION II

Chairperson: **Feng Yue,** Northwestern University, Chicago, Illinois, USA

Single-cell multi-omics mapping of 3D epigenome and transcriptome in mammalian cells
Yijun Ruan [20'+10']
Presenter affiliation: Zhejiang University, Hangzhou, China. 66

The nuclear functions of MIWI/piRNA in spermatocytes
Mo-Fang Liu [20'+10']
Presenter affiliation: Shanghai Institute of Biochemistry and Cell Biology, Chinese Academy of Sciences, Shanghai, China. 67

Extrusion fountains are restricted by WAPL-dependent cohesin release and CTCF barriers
Elzo de Wit [20'+10']
Presenter affiliation: Netherlands Cancer Institute, Amsterdam, the Netherlands. 68

Improved cohesin HiChIP protocol and bioinformatic analysis for robust detection of chromatin loops and stripes
Abhishek Agarwal, Karolina Buka, Zofia Parteka-Tojek, Michal Denkiewicz, Sevastianos Korsak, Mateusz Chilinski, Krzysztof H. Banecki, Dariusz Plewczynski [10'+5']
Presenter affiliation: University of Warsaw, Warsaw, Poland. 69

The transcription machinery constrains nucleosome motion in euchromatin but not in heterochromatin
Kako Nakazato, Katsuhiko Minami, Kazuhiro Maeshima [10'+5']
Presenter affiliation: National Institute of Genetics, ROIS, Mishima, Japan; SOKENDAI, Mishima, Japan. 70

3D chromatin architecture as a mechanochemical integrator determining age-dependent cellular responses
Yawen Liao, Luezhen Yuan, Trinadha R. Sornapudi, Max Land, Rajshikhar Gupta, G.V. Shivashankar [10'+5']
Presenter affiliation: ETH Zurich, Zurich, Switzerland; Paul Scherrer Institute, Villigen, Switzerland. 71

Closing Remarks