

Abstracts of papers presented  
at the 2026 Cold Spring Harbor Asia Conference

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# CHROMATIN, EPIGENETICS & TRANSCRIPTION

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May 18–May 22, 2026

Arranged by

Deborah Bourc'his, *Institut Curie*

Guohong Li, *Wuhan University*

Bing Ren, *Columbia University/New York Genome Center*

Noriko Saitoh, *The Cancer Institute of JFCR*



Cold Spring Harbor Conferences Asia  
Cold Spring Harbor Laboratory



## CHROMATIN, EPIGENETICS & TRANSCRIPTION

Monday, May 18 – Friday, May 22, 2026

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Monday	7:00 pm	<b>Keynote I</b> 1 Biological Impact of Chromatin Processes I
Tuesday	9:00 am	2 Biological Impact of Chromatin Processes II
Tuesday	2:00 pm	<b>Poster Session</b>
Tuesday	7:00 pm	3 DNA and RNA Modifications
Wednesday	9:00 am	4 Chromatin Assembly and Organization I
Wednesday	1:30 pm	<i>Visit to Old Suzhou*</i>
Wednesday	7:00 pm	5 Chromatin Assembly and Organization II
Thursday	9:00 am	6 Chromatin Regulation in Transcription
Thursday	2:00 pm	7 Epigenetic Transitions in Development
Thursday	5:00 pm	Cocktails and Banquet
Friday	9:00 am	<b>Keynote II</b> 8 Chromatin Cross-Talks

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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 in Grand Ballroom Foyer  
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: Grand Ballroom 6:00pm

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

PROGRAM

MONDAY, May 18—7:00 PM

**SESSION 1** BIOLOGICAL IMPACT OF CHROMATIN PROCESSES I

**Chairperson:** **Noriko Saitoh**, The Cancer Institute of JFCR, Kumamoto, Japan

**KEYNOTE SPEAKER**

**Oncohistones—From cancer to neurodegeneration and beyond**

Nada Jabado [35'+10']

Presenter affiliation: McGill University Health Centre, Montreal, Canada.

1

**MAZ-mediated chromatin dysregulation interrupts neurodevelopment in 16p11.2 deletion syndrome**

Pengfei Luan, Hao Tian, Yucen Wang, Xiaoli Chen, Guoqiang Li [10'+5']

Presenter affiliation: Peking University, Beijing, China.

2

**New inhibitors, degraders and stabilizers of epigenetic targets and new approaches to target undruggable proteins**

Jian Jin [20'+10']

Presenter affiliation: Icahn School of Medicine at Mount Sinai, New York, New York.

3

TUESDAY, May 19—9:00 AM

**SESSION 2** BIOLOGICAL IMPACT OF CHROMATIN PROCESSES II

**Chairperson:** **Liling Wan**, University of Pennsylvania, Philadelphia, Pennsylvania, USA

**Epigenetic rewiring and therapeutic opportunity in acute myeloid leukemia**

Yali Dou [20'+10']

Presenter affiliation: University of Southern California, Los Angeles, California.

4

## **Chromatin regulation and cancer**

Yang Shi [20'+10']

Presenter affiliation: University of Oxford, Oxford, United Kingdom.

5

## **Mitotic bookmarking by Prox1 preserves mammalian neuronal lineage identity memory via promoting timely H3K27me3 restoration**

Yan Song [10'+5']

Presenter affiliation: Peking University, Beijing, China.

6

## **An H2A.Z-dependent epigenetic checkpoint in macrophages couples genetic risk to microbial metabolite signaling**

Zhaoran Sun, Fanyi Meng, Hailong Cao, Xudong Wu [10'+5']

Presenter affiliation: School of Basic Medical Sciences, Tianjin Medical University, Tianjin, China.

7

## ***Break***

## **Oncohistone mutations in diffuse midline glioma—Mechanisms, dependence and opportunities**

Xu Zhang, Zhiguo Zhang [20'+10']

Presenter affiliation: Columbia University Irving Medical Center, New York City, New York.

8

## **Single-cell discovery and characterisation of epigenome editing tools**

Ryan Lister [20'+10']

Presenter affiliation: The University of Western Australia, Perth, Australia.

9

## **H3.3K27M disrupts an H3.3 serine 31 phosphorylation switch to rewire heterochromatin and enforce developmental arrest in diffuse midline glioma**

Cody Mutch, Thanh T. Tu, Linda Hii, Maheshi Udugama, Andrew Garvie, Jeff Mann, Philippe Collas, Nada Jabado, Hsiao P. Voon, Lee H. Wong [10'+5']

Presenter affiliation: Monash University, Melbourne, Australia.

10

## **The role and mechanism of oncohistone H2B-E76K in breast cancer**

Jiaohua Chen, Kui Ming Chan [10'+5']

Presenter affiliation: City University of Hong Kong, Kowloon, Hong Kong, China.

11

**POSTER SESSION**

- Deciphering the epigenetic hijacking of the H3.3K36E "oncohistone-like" mutation in neurodevelopment**  
Malik Affar, Xinrui Wang, Alva Annett, Pariya Azarafshar, Augusto F. Andrade, Nada Jabado  
Presenter affiliation: McGill University, Montreal, Canada. 12
- EZH2 modulates mTOR inhibitor sensitivity in DLBCL**  
Reinhard Brunmeir, Bryce W. Tan, Si Yuan Hu, Zhengwei Wu, Norbert Sheng Cong Tay, Rui Xue Lee, Cheryl Zi Jin Phua, Patrick W. Jaynes, Vania Swee Imm Teoh, Wai Leong Tam, Wee Joo Chng, Anand D. Jeyasekharan  
Presenter affiliation: National University of Singapore, Singapore. 13
- Identifying epigenetic vulnerabilities induced by dietary methionine restriction in non-small cell lung cancer (NSCLC)**  
Yui Hei Jasper Chiu, Ying Zhang, Tam Wai Leong  
Presenter affiliation: Agency for Science, Technology and Research (ASTAR), Singapore. 14
- Elucidating epigenetic alterations in diffuse midline gliomas**  
Yonglong Dang, Bastien Hervé, Roy Hanna, Yuk Kit Lor, Nikoleta Juretic, Claudia Kleinman, Nada Jabado, Gonçalo Castelo-Branco  
Presenter affiliation: Karolinska Institutet, Stockholm, Sweden. 15
- Intrinsic de novo DNA methylation in early embryos enables the generation of semi-cloned mice from methylation-deficient androgenetic haploid stem cells**  
Zhenyu Shao, Yin Wang, Boran Chang, Yarui Du, Jingsong Li, Guoliang Xu  
Presenter affiliation: Center for Excellence in Molecular Cell Science, Chinese Academy of Sciences, Shanghai, China. 16
- Dynamic turnover of histone acetylation shapes burst-state transitions at pluripotency loci**  
Xiaohui Gao, Chaebeen Ko, Hiroshi Kimura, Hiroshi Ochiai  
Presenter affiliation: Kyushu University, Fukuoka, Japan. 17

**Pig Matrix—A comprehensive 3D regulatory genomics database for evolutionary and comparative analyses in pigs**

Chao Guo

Presenter affiliation: University of Science and Technology of China, Hefei, China; Kunming Institute of Zoology, Chinese Academy of Sciences, Kunming, China.

18

**Structural and biochemical analyses of nucleosome bundling by Barrier-to-autointegration factor in complex with nuclear lamina proteins**

Naoki Horikoshi, Yoshimasa Takizawa, Hitoshi Kurumizaka

Presenter affiliation: The University of Tokyo, Tokyo, Japan.

19

**Samp1 promotes peripheral heterochromatin during muscle differentiation**

Urška Kašnik, Irene Mei, Silvia Gómez Alcalde, Saira Aftab, Eva Hedlund, Einar Hallberg

Presenter affiliation: Stockholm University, Stockholm, Sweden.

20

**Comparative single-locus imaging of activating and repressive histone marks during transcriptional bursting**

Chaebeen Ko, Satoshi Uchino, Xiaohui Gao, Hiroshi Kimura, Hiroshi Ochiai

Presenter affiliation: Kyushu University, Fukuoka, Japan.

21

**Structure-guided design of novel DNMT1 inhibitors active against hypomethylating agent-resistant acute myeloid leukemia**

Shibing Tang, Liangyi Zong, Jing Huang, Zhihai Li, Stephen B. Baylin, Xiangqian Kong

Presenter affiliation: Guangzhou Institutes of Biomedicine and Health, Chinese Academy of Sciences, Guangzhou, China.

22

**Transcription facilitates the restoration of H2A.Z after DNA replication**

Liting Lan, Guohong Li

Presenter affiliation: Chinese Academy of Science, Beijing, China.

23

**Topological nucleosome interactions safeguard Polycomb silencing in *Drosophila melanogaster***

Chuyan Liu, Juan Yu, Yunlei Deng, Guohong Li

Presenter affiliation: Institute of Biophysics, Chinese Academy of Sciences, Beijing, China.

24

- Linker histone H1 stimulates USP21-mediated H2A.Z deubiquitylation to enable rapid transcriptional activation**  
 Xiaorong Li, Cuifang Liu, Xue Xiao, Zijuan Gu, Juan Yu, Ping Chen, Feng Song, Wei Li, Guohong Li  
 Presenter affiliation: Institute of Biophysics, Chinese Academy of Sciences, Beijing, China. 25
- Fatty acid binding protein 12 in prostate cancer and its role in epigenetic regulation of E-cadherin**  
Rong-Zong Liu, Pureunsol Jeon, Yuan Gao, Darryl D. Glubrecht, Adam Kinnaird, Ronald B. Moore, Roseline Godbout  
 Presenter affiliation: University of Alberta, Edmonton, Canada. 26
- DEK is required for maintaining transcriptional fidelity—Insights from acute versus chronic depletion**  
Yewei Liu, Ferdinand Kappes  
 Presenter affiliation: Xi'an Jiaotong-Liverpool University, Suzhou, China; Duke Kunshan University, Suzhou, China. 27
- Studying concatemerization using barcodes—A new perspective on recombination and transgene expression**  
Alexander Smirnov, Anastasia Ryzhkova, Anastasia Yunusova, Polina Belokopytova, Artem Nurislamov, Pavel Salnikov, Galina Koncevaya, Nariman Battulin  
 Presenter affiliation: Institute of Cytology and Genetics, SB RAS, Novosibirsk, Russia. 28
- Epigenetic changes resulted from whole genome duplication mediate adaptation of *Hordeum bulbosum* to salinity stress**  
Genlou Sun, Prince Odika  
 Presenter affiliation: Saint Mary's University, Halifax, Canada. 29
- Pbrm1 orchestrates chromatin states to safeguard mouse embryonic stem cell differentiation**  
Mingrui Tan, Zongwei Zhang, Guoqiang Li  
 Presenter affiliation: Biomedical Pioneering Innovation Center, Beijing, China. 30
- Cryo-EM structures of ChIP-derived CENP-A nucleosomes from human cells**  
Eisho Tanida, Suguru Hatazawa, Takumi Oishi, Yuki Kobayashi, Mitsuo Ogasawara, Marta A. Jaskiewicz, Akihito Harada, Takeru Fujii, Yasuyuki Ohkawa, Yoshimasa Takizawa, Hitoshi Kurumizaka  
 Presenter affiliation: The University of Tokyo, Bunkyo-ku, Japan. 31

- Sonic Hedgehog signaling inhibits MSX1 expression by preventing GLI3-R-mediated enhancer activation in development and tumorigenesis**  
 Yanan Yang, Hanqing Zhang, Gang Wang  
 Presenter affiliation: School of Life Sciences and Zhongshan Hospital, Shanghai, China. 32
- Single-molecule localization and diffusivity microscopy (SMLDM) reveals dynamic biomolecular organization in living cells**  
Zuhui Wang, Yiwen Liu, Bo Wang, Xiangyu Liu, Wulan Deng  
 Presenter affiliation: Peking University, Beijing, China. 33
- Reduction of the RNA binding protein RBPMS prevents asthma, induced by loss of 5-Hydroxymethylcytosine (5-hmC)**  
Fan Wu, Xiang Li, Stefan Guenther, Andre Schneider, Xuejun Yuan, Thomas Braun  
 Presenter affiliation: Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany. 34
- Single-cell profiling of transcriptome and H3K27ac epigenome reveals distinct B cell subtypes driving inflammation-cancer transition in colorectal cancer**  
 Chen-Yu Wang, Qi-Xin Hu, Jian Chen, Jing-Jing Chen, Zhou Ye, Huan Li, Feng Jin, Lu Jiang, Lian-Yun Li, Ming-Kai Chen, Min Wu  
 Presenter affiliation: Wuhan University, Wuhan, China. 35
- A splicing factor-cohesin association links RNA processing to cohesin-dependent genome folding**  
Tao Wu  
 Presenter affiliation: Shanghai Jiao Tong University, Shanghai, China. 36
- Functional analysis of the histone variant macroH2A in chromatin organization**  
Wenjie Xu, Syota Matsumoto, Yoshimasa Takizawa, Mitsuo Ogasawara, Hitoshi Kurumizaka  
 Presenter affiliation: The University of Tokyo, Tokyo, Japan. 37
- Molecular mechanisms of DNMT3A-3L-mediated de novo DNA methylation on chromatin**  
Yan Yan, Edward X. Zhou, Stacey L. Thomas, MinMin Liu, Gan-Qiang Lai, Evan J. Worden, Peter A. Jones, Ting-Hai Xu  
 Presenter affiliation: Saint Louis University School of Medicine, St. Louis, Missouri. 38

<b>Coordinated regulation of hematopoiesis by X-Y paralogs UTX and UTY</b> <u>Lu Yang</u> , Elena Kombarov, Dimitra Alexopoulou, Andreas Dahl, A.Francis Stewart, Konstantinos Anastassiadis Presenter affiliation: Technische Universität Dresden, Dresden, Germany; Shandong University, Qingdao, China.	39
<b>Integrative epigenomic profiling reveals distal enhancer-promoter networks regulating AT2 cell fate and pulmonary fibrosis</b> Minhui Xia, Kaiwen Shao, <u>Miao Yu</u> Presenter affiliation: Fudan University, Shanghai, China.	40
<b>Structural echo of mitotic chromosomes—Distinct contributions of Condensins I and II to interphase genome architecture</b> <u>Anastasia Yunusova</u> , Egor Tsoi, Alexander Smirnov, Tatiana Shnaider, Inna Pristyazhnuk, Maria Gridina, Miroslav Nuriddinov, Veniamin Fishman, Nariman Battulin Presenter affiliation: Institute of Cytology and Genetics, Novosibirsk, Russia; Novosibirsk State University, Novosibirsk, Russia.	41
<b>Targeting lysozyme 2 in endocardium promotes rapid recovery by modulating remote injury signals</b> <u>Hui Zhang</u> Presenter affiliation: Hainan Medical University, Haikou, China.	42
<b>Gene regulation using a CRISPR/Cas9-based H2A.Z histone variant deposition</b> <u>Xinghan Zhang</u> , Hyeon Park Jeong Presenter affiliation: Xi'an Jiaotong Liverpool University, Suzhou, China.	43
<b>Study of epigenetic regulation mechanisms in post-gastrulation mouse embryos by constructing an atlas of single-cell transcriptome and histone modifications</b> <u>Yuanming Zheng</u> , Ziyin Chen, Jiehui He, Miao Yu Presenter affiliation: Fudan University, Shanghai, China.	44
<b>Structural visualization of the human H2A.X-containing nucleosome isolated from cells</b> <u>Haotong Zhuang</u> , Suguru Hatazawa, Yoshimasa Takizawa, Hitoshi Kurumizaka Presenter affiliation: The University of Tokyo, Tokyo, Japan.	45

**SESSION 3**      DNA AND RNA MODIFICATIONS

**Chairperson:**    **Ryan Lister**, University of Western Australia, Perth, Australia

**Interplay between DNA methylation and base excision repair in mammalian epigenome reprogramming**

Yin Wang, Guoliang Xu [20'+10']

Presenter affiliation: Fudan University, Shanghai, China; Inst of Biochem and Cell Biol, Shanghai, China.

46

**Dreams illuminates DNA & RNA modification landscapes and reveals novel RNA modification regulatory roles for Tet enzymes**

Yan Peng, Xue Liang, Magdalena Koziol [10'+5']

Presenter affiliation: Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing, China; Chinese Institute for Brain Research, Beijing, China; Chinese Academy of Medical Sciences, Beijing, China.

47

**Charting the m6a-ome across retrotransposon mRNAs in mammals**

Deborah Bourc'his [20'+10']

Presenter affiliation: Institut Curie, Paris, France.

48

**A single-enzyme establishment and maintenance CG methylation system in the pathogenic fungus *Cryptococcus neoformans***

Nona Boustan, Daniel Zilberman [10'+5']

Presenter affiliation: Institute of Science and Technology Austria, Klosterneuburg, Austria.

49

**Structural insights into DNMT3A-mediated de novo DNA methylation in cancer**

Yan Yan, Gan-Qiang Lai, Ting-Hai Xu [10'+5']

Presenter affiliation: Saint Louis University School of Medicine, St. Louis, Missouri.

50

**The histone variant H2A.Z and the demethylase ROS1 define the gradient of DNA methylation epimutation rates in Arabidopsis genes**

Elizabeth Hollwey, Daniel Zilberman [10'+5']

Presenter affiliation: Institute of Science and Technology Austria, Klosterneuburg, Austria.

51

TUESDAY, May 19—9:00 PM

**Free Open Bar**

sponsored by  
**SeekGene**

WEDNESDAY, May 20—9:00 AM

**SESSION 4** CHROMATIN ASSEMBLY AND ORGANIZATION I

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

**Expanding the regulatory landscape of chromatin**

Robert Schneider [20'+10']

Presenter affiliation: Helmholtz Munich, Munich, Germany. 52

**Structural basis of nucleosome dynamics in genome transactions**

Hitoshi Kurumizaka [20'+10']

Presenter affiliation: The University of Tokyo, Tokyo, Japan. 53

**Epigenetic control of nuclear mechanics and cellular migration via histone H3 lysine 9 methylation at lamina-associated domains**

Silvia Comunian, Valentin Petit, Guillaume Velasco, Vlada Zakharova, Cécile Jebane, Pauline Lahure, Véronique Joliot, Laurence Del Maestro, Magali Hennion, Guillaume Lamour, Jean-Baptiste Manneville, Emmanuèle Helfer, Ekaterina Boyarchuk, Slimane Ait-siali [10'+5']

Presenter affiliation: Université Paris Cité, Paris, France. 54

**DNA loop extrusion facilitates de novo sister chromatid cohesion establishment**

Hai-Qiang Dai [10'+5']

Presenter affiliation: Shanghai Institute of Biochemistry and Cell Biology, Center for Excellence in Molecular Cell Science, Shanghai, China. 55

**Break**

**SPIN1 functions as a dual-mode chromatin effector in transposon silencing through combinatorial histone mark recognition**

Yuka W. Iwasaki [20'+10']

Presenter affiliation: RIKEN, Yokohama, Japan. 56

**Circular RNA formation at the CDR1as locus regulates chromosome compartments and promotes neurogenesis**

Jia Li, Ling-Ling Chen, Hongtao Yu [20'+10']

Presenter affiliation: Westlake University, Hangzhou, China.

57

**The oncohistone H3.3G34W impairs differentiation programs in development and cancer through chromatin remodeling**

Claudia Negron, Gaofei Tian, Alva Annett, Malik Affar, Bonnie Wang, Claudia Kleinman, Livia Garzia, David Li, Nada Jabado [10'+5']

Presenter affiliation: McGill University, Montreal, Canada.

58

**A genetic system reveals seed-driven expansion of human centromeric chromatin**

Bin Zhang, Patrick J. Murphy, Shan Hua, Zhijie J. Liu, Archibald Perkins [10'+5']

Presenter affiliation: University of Rochester Medical Center, Rochester, New York.

59

WEDNESDAY, May 20—1:30 PM

**Visit to Old Suzhou**

WEDNESDAY, May 20—7:00 PM

**SESSION 5 CHROMATIN ASSEMBLY AND ORGANIZATION II**

**Chairperson:** **Maria-Elena Torres Padilla**, Helmholtz Zentrum München, Munich, Germany

**RNA as a regulator of chromatin-associated oncogenic condensates**

Liling Wan [20'+10']

Presenter affiliation: University of Pennsylvania, Philadelphia, Pennsylvania.

60

**Mechanisms regulating PRC2 enzymatic activity**

Samuel Le Cam, Seynabou Diop, Calvin Rodrigues, Ambre Petitalot, Daniel Holoch, Raphaël Margueron [20'+10']

Presenter affiliation: INSERM U934/CNRS UMR3215, Institut Curie-Research Center, Paris, France.

61

**Cohesin-mediated chromatin architecture contributes to nuclear mechanics and genome stability**

Evelyn Kabirova, Nariman Battulin [10'+5']

Presenter affiliation: Institute of Cytology and Genetics, Novosibirsk, Russia. 62

**Polycomb repression in the absence of variant RING1 complexes**

Tatyana G. Kahn, Andres Garrido, Anastasiya Yushkova, Maria Kim, Alexander Glotov, Sweda Sreekumar, Jan Larsson, Yuri B. Schwartz [10'+5']

Presenter affiliation: Umeå University, Umeå, Sweden. 63

**ASD-associated 16p11.2 deletion disrupts chromatin organization and expression of clustered genes in neuronal precursor cells**

Dominik Szabó, Milad Moktharidoost, Rieke Kempfer, Marta Slimak-Mastrobuoni, Alexander Kukalev, Jordan J. Chalmers, Christoph J. Thieme, Philipp G. Maass, Ana Pombo [20'+10']

Presenter affiliation: Max-Delbrück Centre for Molecular Medicine, Berlin, Germany; Humboldt University of Berlin, Berlin, Germany; Johns Hopkins University, Baltimore, Maryland. 64

THURSDAY, May 21—9:00 AM

**SESSION 6** CHROMATIN REGULATION IN TRANSCRIPTION

**Chairperson:** **Bing Zhu**, Institute of Biophysics, CAS, Beijing, China

**Linker histone H1 enables USP21 to unlock H2A.Zub-compacted chromatin for rapid gene activation**

Guohong Li [20'+10']

Presenter affiliation: Wuhan University, Wuhan, China; Chinese Academy of Sciences, Beijing, China. 65

**The regulatory role of chromatin in transcription initiation**

Xizi Chen, Yanhui Xu [20'+10']

Presenter affiliation: Fudan University, Shanghai, China. 66

**Advanced live-cell imaging of long-range transcription activation**

Wulan Deng [10'+5']

Presenter affiliation: Peking University, Beijing, China. 67

**The regulation of spatial recycling of RNA polymerase II**

Fei Chen [10'+5']

Presenter affiliation: Chinese Academy of Sciences, Shanghai, China. 68

**Break**

**Building to understand—Enhancer-promoter communication in the context of regulatory landscapes**

Christa Buecker [20'+10']

Presenter affiliation: Max Perutz Labs, Vienna, Austria.

69

**Aromatic docking into PML nuclear bodies spatially gates KRAB-ZFP-mediated transcriptional silencing**

Lu Fang, Tao Wu, Yixuan Wang, Peng Yang [10'+5']

Presenter affiliation: Tongji University, Shanghai, China.

70

**Hierarchical buffering of cellular RNA polymerase II pools maintains transcriptional homeostasis**

Alexander Gillis, Roberta Cacioppo, Pei Qin Ng, Hongpei Li, Bailey Hiles-Murison, Ana Tufegdžic Vidakovic, Scott Berry [10'+5']

Presenter affiliation: University of New South Wales, Sydney, Australia; UNSW RNA Institute, Sydney, Australia.

71

**Integrative live-cell imaging links chromatin-state dynamics to transcriptional bursts**

Xiaohui Gao, Chaebeen Ko, Takeru Fujii, Satoshi Uchino, Yoshiaki Kobayashi, Akihito Harada, Yasuyuki Ohkawa, Hiroshi Kimura, Hiroshi Ochiai [10'+5']

Presenter affiliation: Kyushu University, Fukuoka, Japan.

72

**Structural insight into transcription through overlapping dinucleosome**

Zhihui Chen, Cheng-Han Ho, Hiroki Tanaka, Tomoya Kujirai, Mitsuo Ogasawara, Haruhiko Ehara, Shun-ichi Sekine, Yoshimasa Takizawa, Hitoshi Kurumizaka [10'+5']

Presenter affiliation: The University of Tokyo, Graduate School of Science, Tokyo, Japan.

73

THURSDAY, May 21—2:00 PM

**SESSION 7 EPIGENETIC TRANSITIONS IN DEVELOPMENT**

**Chairperson:** **Deborah Bourc'his**, Institut Curie, Paris, France

**Establishing the epigenome when life begins**

Wei Xie [20'+10']

Presenter affiliation: Wei Xie, Beijing, China.

74

- Dissecting the interplay between DNA and H3K4 methylation in mammalian pluripotency and differentiation**  
Angélique David, Marlet Morales-Franco, Ana Monteagudo-Sanchez, Julien Richard Albert, Narjesse Hounani, Suzy Perdrix, Maxim V. C. Greenberg [10'+5']  
 Presenter affiliation: Institut Jacques Monod, Paris, France. 75
- H2AK119ub1–MLL2 counteraction underlies heritable H3K27me3 formation in oocytes**  
Azusa Inoue, Hailiang Mei [10'+5']  
 Presenter affiliation: RIKEN, Yokohama, Japan. 76
- A ZGA checkpoint revealed by mammalian interspecific hybrids**  
 Ding Qiu, Dengfeng Bi, Zhiheng Yuan, Zhenghao Qiao, Jianguo Zhao, Yang Yu [10'+5']  
 Presenter affiliation: Guangzhou Medical University, Guangzhou, China. 77
- Break**
- Epigenetic mechanisms of cellular plasticity and reprogramming to totipotency**  
Maria-Elena Torres-Padilla [20'+10']  
 Presenter affiliation: Institute of Epigenetics & Stem Cells, Helmholtz Zentrum München, Munich, Germany. 78
- R-loops orchestrate epigenetic and transcriptional reprogramming from oogenesis to early embryogenesis**  
 Yaoyi Li, Qing Li, Xinxiu Wang, Yingliang Sheng, Ying Ma, Junzhi Liao, Jiayu Chen, Guangming Wu, Shaorong Gao, Hongjie Yao [10'+5']  
 Presenter affiliation: Guangzhou National Laboratory, Guangzhou, China. 79
- Chromatin tethering by the Trithorax homolog MLL2 during the ESC naive to primed transition**  
 Maïke Steindel, Katrin Neumann, Srinjan Basu, Francis Stewart [10'+5']  
 Presenter affiliation: Technische Universität Dresden, Dresden, Germany; Shandong University, Qingdao, China. 80

**A single dose of cocaine rewires the 3D genome structure of midbrain dopamine neurons**

Jing He, Dominik Szabó, Vedran Franke, Alexander Kukalev, Simona Bianco, Mykhailo Batiuk, Eleanor Paul, Alexander D. Park, Anuschka Zinecker, Luna Zea-Redondo, Irina Korshunova, Jose P. Lopez-Atalaya, Mario Nicodemi, Altuna Akalin, Konstantin Khodosevich, Mark A. Ungless, Warren Winick-Ng, Ana Pombo [10'+5']

Presenter affiliation: Johns Hopkins University, Baltimore, Maryland; Max-Delbrück Center for Molecular Medicine, Berlin, Germany.

81

THURSDAY, May 21—5:00 PM

**COCKTAILS and BANQUET**

FRIDAY, May 22—9:00 AM

**SESSION 8 CHROMATIN CROSS-TALKS**

**Chairperson:** **Guohong Li**, Wuhan University, Wuhan, China

**KEYNOTE SPEAKER**

**Polycomb silencing—A general transcriptional silencing system beyond body patterning**

Yi Zhang [35'+10']

Presenter affiliation: Harvard Medical School and Boston Children's Hospital, Boston, Massachusetts.

82

**Regulation of enhancers by chromatin-associated noncoding RNAs and lysine deacetylation in breast cancer**

Maierdan Palihati, Hiroaki Tachiwana, Noriko Saitoh [20'+10']

Presenter affiliation: The Cancer Institute of JFCR, Tokyo, Japan.

83

**Spatial co-profiling of DNA methylation, chromatin accessibility, histone modifications, and mRNAs in intact tissues**

Yanxiang Deng [10'+5']

Presenter affiliation: University of Pennsylvania, Philadelphia, Pennsylvania.

84

**Break**

**Regulation of heterochromatin**

Bing Zhu [20'+10']

Presenter affiliation: Institute of Biophysics, Chinese Academy of Sciences, Beijing, China.

85

**Promoter cooperation within a synthetic regulatory landscape**

María García Gallardo, Florian Halhammer, Songjie Feng, Henry Thomas, Christa Buecker [10'+5']

Presenter affiliation: Max Perutz Labs, Vienna, Austria; University of Vienna, Vienna, Austria; Vienna BioCenter PhD Program, Vienna, Austria.

86

**Integrator drives an RNA-based transcriptional checkpoint at CpG islands**

Fan Lai [10'+5']

Presenter affiliation: Yunnan University, Kunming, China.

87