

PROGRAM

MONDAY, April 16—7:00 PM

**SESSION 1**      OPENING SESSION / KEYNOTE SPEAKERS

**Chairpersons / Welcome Remarks**

**Genevieve Almouzni**, Curie Institute, France  
**Hiroyuki Sasaki**, Kyushu University, Japan  
**Yang Shi**, Children's Hospital, Harvard Medical School, USA  
**Bing Zhu**, Institute of Biophysics, CAS, China

**Stem cells and epigenetic regulation in development and disease**

Rudolf Jaenisch [35'+10']

Presenter affiliation: MIT, Cambridge, Massachusetts.

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**Maintainer-dependent epigenetic inheritance of gene silencing and histone H3K9 methylation**

Xiaoyi Wang, Danesh Moazed [10'+5']

Presenter affiliation: Howard Hughes Medical Institute, Harvard Medical School, Boston, Massachusetts.

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**Control of chromosome topology and gene expression via chromatin modifications**

Barbara J. Meyer [35'+10']

Presenter affiliation: HHMI and University of California-Berkeley, Berkeley, California.

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MONDAY, April 16—9:00 PM

**Meet the Editors**

**SESSION 2** CHROMATIN ASSEMBLY AND DYNAMICS

**Chairperson:** Guohong Li, Institute of Biophysics, CAS, Beijing, China

**Chromatin determinants of centromeric identity and their deregulation in cancer**

Genevieve Almouzni [20'+5']

Presenter affiliation: Institut Curie, Research Center, Paris, France. 4

**Canonical PRC1 maintains genome integrity by directing DAXX-dependent histone H3.3 incorporation**

Zichuan Liu, Mathieu Tardat, Mark E. Gill, Alexander Hanzl, Helene Royo, Raphael Thierry, Antoine H. Peters [10'+5']

Presenter affiliation: Friedrich Miescher Institute, Basel, Switzerland. 5

**Multisite substrate recognition in Asf1-dependent acetylation of histone H3 K56 by Rtt109**

Lin Zhang, Albert Serra-Cardona, Hui Zhou, Mingzhu Wang, Na Yang, Zhiguo Zhang, Rui-Ming Xu [20'+5']

Presenter affiliation: Chinese Academy of Sciences, Beijing, China; University of Chinese Academy of Sciences, Beijing, China. 6

**Evidence that H3K36me3 promotes a novel mutation avoidance pathway associated with transcription**

Yaping Huang, Liya Gu, Guo-Min Li [10'+5']

Presenter affiliation: Tsinghua University School of Medicine, Beijing, China. 7

**Coffee Break**

**Decode the communication between histone chaperones and replisome components**

Qing Li [20'+5']

Presenter affiliation: Peking University, Beijing, China. 8

**Nucleosomal asymmetry shapes histone mark binding at bivalent domains**

Elana Bryan, Kim Webb, Marie Warburton, Thomas Sheahan, Philipp Voigt [10'+5']

Presenter affiliation: University of Edinburgh, Edinburgh, United Kingdom. 9

**Uncovering new functions of chromatin—Novel roles for histone variants in the testis and brain**

Nur Diana Anuar, Sebastian kurscheid, Wei Wei, Timothy Bredy, Tatiana Soboleva, David Tremethick [20' +5']  
Presenter affiliation: The Australian National University, Canberra, Australia.

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**Oncogenic transcription factors reprogram ER $\alpha$ -bound enhancers in breast cancer progression**

Mingjun Bi, Zhao Zhang, Pengya Xue, Zhijie (Jason) Liu  
Presenter affiliation: University of Texas Health Science Center at San Antonio, San Antonio, Texas.

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TUESDAY, April 17—2:00 PM

**SESSION 3      POSTER SESSION I**

**Developmental DNA methylation dynamics in the chordate amphioxus**

Ozren Bogdanovic, Ferdinand Marletaz, Panos Firbas, Ignacio Maeso, Juan J. Tena, Malcolm Perry, Chris D. Wyatt, Elisa de la Calle Mustienes, Ryan Lister, Boris Lenhard, Hector Escriva, Jose Luis Gomez-Skarmeta, Manuel Irimia  
Presenter affiliation: Garvan Institute of Medical Research, Sydney, Australia.

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**cLoops—A clustering based loops calling method for ChIA-PET, HiChIP and Hi-C**

Yaqiang Cao, Xingwei Chen, Daosheng Ai, Zhaoxiong Chen, Guoyu Chen, Jing-Dong J. Han  
Presenter affiliation: CAS Center for Excellence in Molecular Cell Science, Chinese Academy of Sciences-Max Planck Partner Institute for Computational Biology, Shanghai, China.

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**Ani one can 'write' GRANT on CENP-A to ensure genomic stability in fission yeast**

Ee Sin Chen  
Presenter affiliation: National University of Singapore, Singapore.

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**Effects of inhibition of histone lysine demethylase KDM5 in breast cancer cells**

Qin Chen, John R. Horton, Xing Zhang, Xiaodong Cheng  
Presenter affiliation: The University of Texas MD Anderson Cancer Center, Houston, Texas.

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<b>DMNuP—A comprehensive database of mammalian nucleosome positioning</b>	
<u>Xiaolan Chen</u> , Hui Yang, Yong Zhang	
Presenter affiliation: Tongji University, Shanghai, China.	16
<b>Revealing non-canonical functions of chromatin regulators using high-throughput data mining</b>	
Sheng'en Hu, Dawei Huo, <u>Yujie Chen</u> , Zhaowei Yu, Xudong Wu, Yong Zhang	
Presenter affiliation: Tongji University, Shanghai, China.	17
<b>Tissue-independent and tissue-specific patterns of DNA methylation alteration in cancer</b>	
<u>Yuting Chen</u> , Andrew E. Teschendorff	
Presenter affiliation: CAS-MPG Partner Institute for Computational Biology, Shanghai, China; University of Chinese Academy of Science, Shanghai, China.	18
<b>Identifying super enhancer-associated master transcription factors in primary human hepatocellular carcinoma</b>	
<u>Otto K. Cheung</u> , Feng Wu, Patrick Tan, Kevin Y. Yip, Alfred S. Cheng	
Presenter affiliation: The Chinese University of Hong Kong, Hong Kong.	19
<b>The role of the epigenetic modulator N-<math>\alpha</math>-acetyltransferase 10 protein in hippocampal neuronal function</b>	
<u>Chien-Te Chou</u> , Chen-Cheng Lee, Li-Jung Juan	
Presenter affiliation: Academia Sinica, Taipei, Taiwan.	20
<b>Ennet—Construction of potential cancer-driving networks based on somatic enhancer mutations only</b>	
<u>Ya Cui</u> , Yiwei Niu, Xueyi Teng, Jianjun Luo, Shunmin He, Runsheng Chen	
Presenter affiliation: Institute of Biophysics, Chinese Academy of Sciences, Beijing, China.	21
<b>Structural basis for recognition of 53BP1 tandem Tudor domain by TIRR.</b>	
<u>Yaxin Dai</u> , Aili Zhang, Shan Shan, Zihua Gong, Zheng Zhou	
Presenter affiliation: Institute of Biophysics, Chinese Academy of Sciences, Beijing, China; University of Chinese Academy of Sciences, Beijing, China.	22

<b>Dietary fatty acids shape the metastatic potential of CD36+ metastasis-initiating cells</b> <u>Diana Dominguez</u> , Gloria Pascual, Salvador Aznar-Benitah Presenter affiliation: Institute for Research in Biomedicine (IRB Barcelona), Barcelona, Spain.	23
<b>PRMT2 links histone H3R8 asymmetric dimethylation to oncogenic activation and tumorigenesis of glioblastoma</b> <u>Feng Dong</u> Presenter affiliation: Tianjin Medical University, Tianjin, China.	24
<b>Two-face functions of FACT in breaking nucleosome and maintaining its integrity at single-nucleosome level</b> Ping Chen, <u>Liping Dong</u> , Mingli Hu, Yi-Zhou Wang, Xue Xiao, Jie Yan, Peng-Ye Wang, Danny Reinberg, Ming Li, Wei Li, Guohong Li Presenter affiliation: Institute of Biophysics, Beijing, China; University of Chinese Academy of Sciences, Beijing, China.	25
<b>The roles of the CSE1L-mediated nuclear import pathway in epigenetic silencing</b> <u>Qiang Dong</u> , Xiang Li, Cheng-zhi Wang, Shaohua Xu, Gang Yuan, Wei Shao, Baodong Liu, Yong Zheng, Hailin Wang, Xiaoguang Lei, Zhuqiang Zhang, Bing Zhu Presenter affiliation: Institute of Biophysics, Chinese Academy of Sciences, Beijing, China; National Institute of Biological Sciences, Beijing, China.	26
<b>Participation of bromodomain containing proteins in regulating enhanced healthy metabolism by HDACi-like exercise</b> <u>Xiaoyang Dou</u> , Christopher D. Green, Hongwen Xuan, Yi Huang, Liu Yang, Yong Liu, Jing-Dong J. Han Presenter affiliation: Chinese Academy of Sciences-Max Planck Partner Institute for Computational Biology, Shanghai, China.	27
<b>Targeting HIV latency based on a crosstalk between histone modifications</b> Zheng Zhang, Bryan C. Nikolai, Sung Yun Jung, Andrew P. Rice, Bert W. O'Malley, <u>Qin Feng</u> Presenter affiliation: Baylor College of Medicine, Houston, Texas.	28

<b>Regulation of CENP-A deposition by SENP6-mediated M18BP1 deSUMOylation</b>	
<u>Hang Fu</u> , Nan Liu, Qiang Dong, Chunxiao Ma, Jing Yang, Jun Xiong, Zhuqiang Zhang, Yong Zheng, Xiangbing Qi, Chang Huang, Bing Zhu	
Presenter affiliation: China Agricultural University, Beijing, China; Institute of Biophysics, Chinese Academy of Sciences, Beijing, China; National Institute of Biological Sciences, Beijing, China.	29
<b>Primate-specific H3 variant H3.Y maintain genomic integrity and cellular viability under stress</b>	
<u>Qing Gao</u>	
Presenter affiliation: Peking Union Medical College, Beijing, China.	30
<b>Age-associated epigenetic dysregulation in mouse heart</b>	
William Giblin, <u>Hanjia Guo</u> , Adam Stein, David Lombard	
Presenter affiliation: University of Michigan, Ann Arbor, Michigan.	31
<b>Dual effects of pre-existing DNA methylation on transgenerational DNA re-methylation dynamics in Arabidopsis</b>	
<u>Yuri Hashimoto</u> , Taiko To, Yoshiaki Tarutani, Tetsuji Kakutani	
Presenter affiliation: University of Tokyo, Tokyo, Japan.	32
<b>Critical role of histone H3K36me2-specific methyltransferase Ash1L in MLL-rearranged leukemia</b>	
<u>Jin He</u>	
Presenter affiliation: Michigan State University, East Lansing, Michigan.	33
<b>Identification of a multi-subunit protein complex required for histone deacetylation and heterochromatin silencing in Arabidopsis</b>	
Lian-Mei Tan, <u>Xin-Jian He</u>	
Presenter affiliation: National Institute of Biological Sciences, Beijing, China.	34
<b>Modeling the dynamics of clonal collapse in hematopoietic stem cells lacking DNA methyltransferase 3A (<i>Dnmt3a</i>) using lentiviral barcoding</b>	
<u>Emily B. Heikamp</u> , Michael C. Gundry, Anna G. Guzman, Jaime M. Reyes, Tianpeng Gu, Ayala Tovy, Jason H. Rogers, Rachel Rau, Margaret A. Goodell	
Presenter affiliation: Baylor College of Medicine, Houston, Texas.	35

<b>Dkk3 dependent transcriptional regulation controls age related skeletal muscle atrophy</b>	
Jie Yin, Lele Yang, Yangli Xie, Hongbin Ji, Lin Chen, <u>Ping Hu</u>	
Presenter affiliation: Shanghai Institute of Biochemistry and Cell Biology, Shanghai, China; Shanghai Institute of Biochemistry and Cell Biology, Chinese Academy of Sciences, University of Chinese Academy of Sciences, Shanghai, China.	36
<b>Dissecting super-enhancer hierarchy based on chromatin interactions</b>	
<u>Jialiang Huang</u> , Kailong Li, Wenqing Cai, Xin Liu, Yuannyu Zhang, Stuart H. Orkin, Jian Xu, Guo-Cheng Yuan	
Presenter affiliation: Dana-Farber Cancer Institute and Harvard T.H. Chan School of Public Health, Boston, Massachusetts; Boston Children's Hospital and Dana-Farber Cancer Institute, Boston, Massachusetts.	37
<b>Role of SKP1 in the regulation of CGI epigenome</b>	
<u>Shinsuke Ito</u> , Hiroki Sugishita, Marika Shibata, Junichiro Takano, Takashi Kondo, Haruhiko Koseki	
Presenter affiliation: RIKEN, Yokohama, Japan.	38
<b>TIP60 represses telomerase expression—A HAT with new tricks</b>	
<u>Sudhakar Jha</u>	
Presenter affiliation: Cancer Science Institute of Singapore, Singapore.	39
<b>Maternal H3K27me3 controls DNA methylation-independent imprinting</b>	
Azusa Inoue, <u>Lan Jiang</u> , Falong Lu, Tsukasa Suzuki, Yi Zhang	
Presenter affiliation: Boston Children's Hospital, Boston, Massachusetts.	40
<b>Temporal dynamic reorganization of 3D chromatin architecture in hormone-induced breast cancer and endocrine resistance</b>	
<u>Victor X. Jin</u>	
Presenter affiliation: University of Texas Health San Antonio, San Antonio, Texas.	41
<b>Unbiased identification of a DNA-binding null mutant in the pseudo-SAP/SAP-box domain via the bacterial growth inhibition screen (BGIS) reveals functions for DEK in global chromatin structure</b>	
Haihong Guo, Malte Prell, <u>Ferdinand Kappes</u>	
Presenter affiliation: Medical School, RWTH Aachen University, Aachen, Germany; Xi'an Jiaotong-Liverpool University, Suzhou, China.	42

- Proteomic interrogation reveals wide-spread functions of the chromatin architectural oncoprotein DEK**  
 Malte Prell, Haihong Guo, Christian Preisinger, Ferdinand Kappes  
 Presenter affiliation: Medical School, RWTH Aachen University, Aachen, Germany; Xi'an Jiaotong-Liverpool University, Suzhou, China. 43
- Bacterial growth inhibition screen (BGIS)—Harnessing recombinant protein toxicity for rapid identification and functional characterization of nucleic acid-interacting protein domains**  
 Haihong Guo, Malte Prell, Ferdinand Kappes  
 Presenter affiliation: Medical School, RWTH Aachen University, Aachen, Germany; Xi'an Jiaotong-Liverpool University, Suzhou, China. 44
- Identification of DNA-modulating domains via the bacterial growth inhibition screen (BGIS) reveals functions in chromatin for the TREX component THOC4 (ALYREF)**  
 Malte Prell, Haihong Guo, Ferdinand Kappes  
 Presenter affiliation: Medical School, RWTH Aachen University, Aachen, Germany; Xi'an Jiaotong-Liverpool University, Suzhou, China. 45
- AMPK–SKP2–CARM1 signalling cascade in transcriptional regulation of autophagy**  
Jaebom KIM, Hyunkyung KIM, Hi-Jai R. Shin, Sunghee Baek  
 Presenter affiliation: Seoul National University, Seoul, South Korea. 46
- Tousled like kinases promote chromatin assembly and show synthetic lethality with checkpoint inhibitors**  
Sung-Bau Lee, Sandra Segura-Bayona, Giulia Saredi, Marina Villamor-Payà, Matthew A. Todd, Camille S. Attolini, Travis H. Stracker, Anja Groth  
 Presenter affiliation: University of Copenhagen, Copenhagen, Denmark; College of Pharmacy, Taipei Medical University, Taipei, Taiwan. 47
- Histone variant macroH2A1.2 regulates heterochromatin mediated by NuRD complex**  
Bingkun Lei, Roberto Malinverni, Marcus Buschbeck, Frederic Berger  
 Presenter affiliation: Gregor Mendel Institute of Molecular Plant Biology GmbH, Vienna, Austria. 48
- Cross-talks between chromatin regulators that travel with Pol II are coordinated by CTD and essential for their functionalities**  
 Yanling Niu, Yi Wang, Chun Ruan, Jun Wu, Shen Cai, Aroon Karr, Sheng Li, Bing Li  
 Presenter affiliation: UT Southwestern Medical Center, Dallas, Texas; Shanghai Jiao Tong University School of Medicine, Shanghai, China. 49



- TFmapper—A tool for searching putative factors regulating gene expression using ChIP-seq data**  
 Jianming Zeng, Gang Li  
 Presenter affiliation: University of Macau, Macau, China. 50
- Digestion-ligation-only Hi-C, a simple, cost-effective, and highly efficient method for chromosome conformation capture**  
 Da Lin, Ping Hong, Guoliang Li, Gang Cao  
 Presenter affiliation: Huazhong Agricultural University, Wuhan, China. 51
- Stationary analysis the alternative splicing profile reveals the splicing code**  
Meng Li  
 Presenter affiliation: Shanghai Institute for Biological Sciences, Shanghai, China. 52
- Genomewide analyses reveal a role of Polycomb in promoting hypomethylation of DNA methylation valley**  
Yuanyuan Li, Hui Zheng, Qiujuan Wang, Chen Zhou, Lei Wei, Xuehui Liu, Wenhao Zhang, Yu Zhang, Zhenhai Du, Xiaowo Wang, Wei Xie  
 Presenter affiliation: Tsinghua University, Beijing, China. 53
- The Elongator complex maintains genomic stability via regulation of DNA damage response**  
 Huan-Yi Tseng, Fu-Jung Lin  
 Presenter affiliation: National Taiwan University, Taipei, Taiwan. 54
- H3K36 demethylase Rph1 modulates the transcriptional reprogramming of cellular quiescence during chronological aging in *Saccharomyces cerevisiae***  
Wei-Han Lin, Long-Chi Wang, Shao-Chang Huang, Wan-Sneng Lo  
 Presenter affiliation: National Chung Hsing University and Academia Sinica, Taipei, Taiwan. 55
- Analysis of chromatin landscape in early mammalian development reveals epigenetic transition during ZGA**  
 Jingyi Wu, Jiawei Xu, Bofeng Liu, Guidong Yao, Peizhe Wang, Zili Lin, Bo Huang, Tong Li, Senlin Shi, Xiangyang Zhang, Xuepeng Wang, Wenbin Niu, Wenyan Song, Haixia Jin, Nan Zhang, Jie Na, Yingpu Sun, Wei Xie  
 Presenter affiliation: School of Life Sciences, Beijing, China. 56

- Deletion of polycomb protein EED in neural stem cells leads to malformation of the dentate gyrus**  
 Pei-Pei Liu, Ya-Jie Xu, Gang-bin Tang, Hong-Zhen Du, Zhao-Qian Teng, Chang-Mei Liu  
 Presenter affiliation: Institute of Zoology, Chinese Academy of Sciences, Beijing, China. 57
- From 1D sequence to 3D chromatin dynamics and cellular functions—A phase separation perspective**  
Sirui Liu, Ling Zhang, Hui Quan, Hao Tian, Luming Meng, Lijiang Yang, Huajie Feng, Yi Qin Gao  
 Presenter affiliation: Beijing National Laboratory for Molecular Sciences, Beijing, China. 58
- Adaptation of A-to-I RNA editing in Drosophila**  
Jian Lu  
 Presenter affiliation: Peking University, Beijing, China. 59
- MNase, as a probe to study the sequence-dependent site exposures in the +1 nucleosomes of yeast**  
Di Luo  
 Presenter affiliation: National Institutes for Quantum and Radiological Science and Technology, Kizugawa, Kyoto, Japan; Nanyang Technological University, Singapore. 60
- In situ capture of chromatin interaction of long-range control element regulating callipyge phenotype**  
Lizhu Niu, Xuwen Xu  
 Presenter affiliation: Huazhong Agricultural University, Wuhan, China. 61
- PKC $\alpha$ -LSD1-NF- $\kappa$ B-signaling cascade is crucial for epigenetic control of the inflammatory response**  
Se Won Park, Dongha Kim, Hye Jin Nam, Jun-Young Ahn, Sung Hee Baik  
 Presenter affiliation: Seoul National University, Seoul, South Korea. 62
- Fibroblast growth factors (FGFs) prime the limb specific Shh enhancer for chromatin changes that balance histone acetylation mediated by E26 transformation-specific (ETS) factors.**  
Silvia Peluso, Alison Hill, Carlo De Angelis, Benjamin L. Moore, Graeme Grimes, Robert E. Hill  
 Presenter affiliation: University of Edinburgh, Edinburgh, United Kingdom. 63

**NicE-seq—High resolution open chromatin profiling of cells and tissues**

Hang Gyeong Chin, Christina Hao, Pierre-Olivier Estève, George Spracklin, V K Chaithanya Ponnaluri, Guoqiang Zhang, Sriharsa Pradhan

Presenter affiliation: New England Biolabs, Inc, Ipswich, Massachusetts.

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TUESDAY, April 17—4:30 PM

**Chinese Tea and Beer Tasting**

TUESDAY, April 17—7:00 PM

**SESSION 4** EPIGENETIC INHERITANCE AND PLANT EPIGENETICS

**Chairperson:** **Yan Jessie Zhang**, University of Texas at Austin, Austin, Texas, USA

**Breaking symmetry—Asymmetric epigenetic inheritance during *Drosophila* germline stem cell asymmetric division**

Xin Chen, Rajesh Ranjan, Zehra Nizami, Jonathan Snedeker, Joseph Gall, Matthew Wooten [20'+5']

Presenter affiliation: Johns Hopkins University, Baltimore, Maryland.

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**Approaching single-cell “epigenetic” memory using microfluidics**

Poonam Bheda, Diana Aguilar-Gomez, Nils Becker, Johannes Becker, Emmanouli Stravrou, Igor Kukhtevich, Thomas Höfer, Sebastian Maerkl, Carsten Marr, Gilles Charvin, Antonis Kirmizis, Robert Schneider [10'+5']

Presenter affiliation: Helmholtz Zentrum Muenchen, Munich, Germany.

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**Dnmt2-dependent intergenerational transmission of paternally acquired metabolic disorders via sperm RNAs**

Yunfang Zhang, Xudong Zhang, Junchao Shi, Francesca Tuorto, Xin Li, Yusheng Liu, Reinhard Liebers, Liwen Zhang, Yongcun Qu, JingJing Qian, Maya Pahima, Frank Lyko, Ying Zhang, Qi Zhou, Enkui Duan, Qi Chen [10'+5']

Presenter affiliation: Institute of Zoology, Chinese Academy of Sciences, Beijing, China; University of Nevada, Reno School of Medicine, Reno, Nevada.

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**Functional insights into maternal H3K27me3-dependent imprinting**

Azusa Inoue, Zhiyuan Chen, Yi Zhang [10'+5']

Presenter affiliation: Howard Hughes Medical Institute, Boston Children's Hospital Boston, Boston, Massachusetts; RIKEN, Yokohama, Japan.

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**The gene-body H3K4me1 mediates heterochromatin silencing in Arabidopsis**

Soichi Inagaki, Mayumi Takahashi, Aoi Hosaka, Tasuku Ito, Yoshiaki Tarutani, Tetsuji Kakutani [20'+5']

Presenter affiliation: National Institute of Genetics, Mishima, Japan; The University of Tokyo, Tokyo, Japan.

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Robert Martienssen [20'+5']

Presenter affiliation: Cold Spring Harbor Laboratory, Cold Spring Harbor, New York.

WEDNESDAY, April 18—9:00 AM

**SESSION 5** CHROMATIN MODIFICATIONS AND DYNAMICS I

**Chairperson:** **Azusa Inoue**, RIKEN, Yokohama, Japan

**Processing of modified cytosines in mammalian genome**

Guoliang Xu [20'+5']

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

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**The strand-biased mitochondrial DNA methylome and its regulation by DNMTs**

Jingdong J. Han [10'+5']

Presenter affiliation: Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, China.

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**Division of labor in methylating transposons in the mouse sperm genome**

Deborah Bourc'his [20'+5']

Presenter affiliation: Institut Curie, Paris, France.

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**Evolution of a placenta Igf2 transcript and its repressor Zfp568 regulates eutherian development**

Peng Yang, Anamika Patel, Xiaodong Cheng, Todd Macfarlan [10'+5']

Presenter affiliation: Tongji University, Shanghai, China; National Institutes of Health, Bethesda, Maryland.

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**Coffee Break**

**Regulation of *de novo* DNA methylation during oogenesis**

Bing Zhu [20'+5']

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

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**Ablation of the epigenetic regulator N- $\alpha$ -acetyltransferase 10 protein prevents diet-induced obesity by increasing thermogenesis**

Chen-Cheng Lee, Yi-Chun Shih, Ming-Lun Kang, Shang-Po Jian, Ramanan Devaraj, Li-Jung Juan [10'+5']

Presenter affiliation: Academia Sinica, Taipei, Taiwan.

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**Role of UHRF1 in *de novo* DNA methylation in oocytes and maintenance methylation in preimplantation embryos**

Hiroyuki Sasaki [20'+5']

Presenter affiliation: Kyushu University, Fukuoka, Japan.

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**Regulation of histone H3 Lys 36 methylation**

Yoonjung Lee, Ji-Joon Song [10'+5']

Presenter affiliation: Korea Advanced Institute of Science and Technology, Dajeon, South Korea.

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WEDNESDAY, April 18—2:00 PM

**SESSION 6 POSTER SESSION II**

**Resveratrol ameliorates mitochondrial elongation via Drp1/Parkin/PINK1 signaling in senescent cardiomyocytes**

Xuecong Ren, Hua Zhou, Pei Luo

Presenter affiliation: Macau University of Science and Technology, Macau, Macau.

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- Evolution of sequence-specific DNA demethylation systems by transposon-encoded anti-silencing factor**  
Raku Saito, Aoi Hosaka, Kazuya Takashima, Taku Sasaki, Yoshiaki Tarutani, Tetsuji Kakutani  
 Presenter affiliation: National Institute of Genetics, Shizuoka, Japan; Sokendai, Kanagawa, Japan. 79
- Col3A1 is epigenetically regulated by glutaminolysis-dependent mechanism in IPF fibroblasts**  
 Lei Bai, Sharon Tang, Min Hu, Yan Sanders  
 Presenter affiliation: University of Alabama at Birmingham, Birmingham, Alabama. 80
- Nuclear myosin I is required for large-scale chromatin maintenance and transcriptional regulation**  
Khairunnisa M. Semesta, Tomas Venit, Piergiorgio Percipalle  
 Presenter affiliation: New York University Abu Dhabi, Abu Dhabi, United Arab Emirates. 81
- The PRC2-binding long non-coding RNAs in human and mouse genomes are associated with predictive sequence features**  
 ShiQi Tu, Guo-Cheng Yuan, Zhen Shao  
 Presenter affiliation: Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, China. 82
- SWI/SNF regulates osteogenic differentiation potential of mesenchymal stromal cells**  
Savantani Sinha, Amitava Sengupta  
 Presenter affiliation: CSIR - Indian Institute of Chemical Biology, Kolkata, India. 83
- Temporal epigenomic profiling identifies aryl hydrocarbon receptor (AHR) as a dynamic super-enhancer controlled regulator of mesenchymal multipotency**  
 Deborah Gerard, Florian Schmidt, Aurelien Ginolhac, Martine Schmitz, Rashi Halder, Peter Ebert, Marcel H. Schulz, Thomas Sauter, Lasse Sinkkonen  
 Presenter affiliation: University of Luxembourg, Belvaux, Luxembourg. 84
- Homeobox oncogene activation by pan-cancer DNA hypermethylation**  
Jianzhong Su, Yung-Hsin Huang, Xinyu Wang, Margaret A. Goodell, Wei Li  
 Presenter affiliation: Wenzhou Medical University, Wenzhou, China; Baylor College of Medicine, Houston, Texas. 85

<p><b>Systematic analysis of multiple epigenetic marks reveals chromatin state changes between rice callus and seedling tissues</b>  Nannan Zhao, Kang Zhang, Yue Liu, Hengyu Yan, Minghao Sheng, Wenyong Xu, <u>Zhen Su</u>  Presenter affiliation: China Agricultural University, Beijing, China.</p>	86
<p><b>The role of variant PRC1.1 during ES cell differentiation</b>  <u>Hiroki Sugishita</u>, Shinsuke Ito, Takashi Kondo, Haruhiko Koseki  Presenter affiliation: RIKEN, Yokohama, Japan; Chiba University, Graduate School of Medicine, Chiba, Japan.</p>	87
<p><b>IncFunTK—A toolkit for functional annotation of long non-coding RNAs</b>  Jiajian Zhou, Yile Huang, Yingzhe Ding, Jie Yuang, Huating Wang, <u>Hao Sun</u>  Presenter affiliation: Chinese University of Hong Kong, Shatin, Hong Kong.</p>	88
<p><b>Transcription factors regulate DNA methylation dynamics</b>  <u>Takahiro Suzuki</u>, Shiori Maeda, Erina Furuhashi, Yuri Shimizu, Mami Kishima, Hajime Nishimura, Harukazu Suzuki  Presenter affiliation: RIKEN, Yokohama, Japan; Yokohama City University, Yokohama, Japan.</p>	89
<p><b>Chemical synthesis ubiquitinated histones for nucleosome reconstitution, biochemical analysis and structural illustration</b>  <u>Changlin Tian</u>, Jiabin Li, Jun Liang  Presenter affiliation: University of Science and Technology of China, Hefei, China.</p>	90
<p><b>CDCA7, which is defective in ICF syndrome, is involved in DNA damage repair</b>  <u>Motoko Unoki</u>, Hiroyuki Sasaki  Presenter affiliation: Medical Institute of Bioregulation, Fukuoka, Japan.</p>	91
<p><b>Reprogramming of H3K9me3-dependent heterochromatin during mammalian embryo development</b>  <u>Chenfei Wang</u>, Xiaoyu Liu, Yawei Gao, Lei Yang, Chong Li, Wenqiang Liu, Chuan Chen, Xiaochen Kou, Yanhong Zhao, Jiayu Chen, Yixuan Wang, Rongrong Le, Hong Wang, Yong Zhang, Shaorong Gao  Presenter affiliation: School of Life Sciences and Technology, Tongji University, Shanghai, China.</p>	92

<b>Mechanism linking centromeric heterochromatin to sister chromatid cohesion protection</b> <u>Fangwei Wang</u> Presenter affiliation: Zhejiang University, Hangzhou, China.	93
<b>The transcriptional and epigenetic impact of an intellectual inability-related missense mutation within the Mediator MED23</b> <u>Gang Wang</u> , Chonghui Li, Zhichao Wang, Kun Chen Presenter affiliation: Institute of Biochemistry and Cell Biology, CAS, Shanghai, China.	94
<b>TET2-mediated RNA hydroxymethylation for endogenous retrovirus control in pluripotent stem cells</b> Diana Guallar, Xianju Bi, Xin Huang, Xianle Shi, Hongwei Zhou, Phensinee Haruehanroengra, Jia Sheng, Miguel Fidalgo, Xiaohua Shen, <u>Jianlong Wang</u> Presenter affiliation: The Black Family Stem Cell Institute, New York, New York.	95
<b>The Msx1 homeoprotein regulate gene expression though its nuclear spatial organization in cell identity and differentiation during development</b> Yi Shen, Liangguo Xie, Zhangjing Ma, Huiyuan Shi, <u>Jingqiang Wang</u> Presenter affiliation: Fudan University, Shanghai, China.	96
<b>Characterization of Ser68-dependent abundancy regulation of CENP-A during the cell cycle</b> <u>Kehui Wang</u> , Yuting Liu, Bo Gu, Zhouliang Yu, Guohong Li Presenter affiliation: CAS Center for Excellence in Institute of Biophysics, Beijing, China.	97
<b>Novel UHRF1 acetylation modification by Mof has important role in DNA methylation maintenance</b> <u>Linsheng Wang</u> , Xi Yang, Xiaobin Hu, Zhongjun Zhou Presenter affiliation: The University of Hong Kong, Hong Kong, China.	98
<b>The demethylase NMAD-1 regulates meiosis in <i>C. elegans</i></b> <u>Yuan Wang</u> , Hui Mao, Hiroki Shibuya, Satoru Uzawa, Zach O'Brown, Sage Wesenberg, Takamune Saito, Jinmin Gao, Barbara J. Meyer, Monica P. Colaiacovo, Eric L. Greer Presenter affiliation: Harvard Medical School, Boston, Massachusetts; Children's Hospital Boston, Boston, Massachusetts.	99



**Strong binding activity of few transcription factors is a major determinant of open chromatin**

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Presenter affiliation: Karolinska Institutet, Stockholm, Sweden. 100

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Presenter affiliation: Tianjin Medical University, Tianjin, China. 102

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Presenter affiliation: Shanghai Jiaotong University School of Medicine, Shanghai, China; The Third Affiliated Hospital of Sun Yat-sen University, Guangzhou, China. 105

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<p><b>Genome-wide chromatin conformation capture by efficient Hi-C (eHi-C)</b>  Siyuan Kong, Qitong Huang, <u>Yubo Zhang</u>  Presenter affiliation: Agricultural Genomics Institute at Shenzhen, Chinese Academy of Agricultural Sciences, Shenzhen, China.</p>	127

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Presenter affiliation: Institute of Biophysics, Chinese Academy of Sciences, Beijing, China. 128

**Dr.seq2 —A quality control and analysis pipeline for parallel single cell transcriptome and epigenome data**  
Chengchen Zhao, Sheng'en Hu, Xiao Huo, Yong Zhang  
Presenter affiliation: Tongji University, Shanghai, China. 129

**Reversing mechanoinductive desmoplakin (DSP) expression by CRISPR/dCas9-mediated epigenome editing**  
Yong Zhou  
Presenter affiliation: University of Alabama at Birmingham, Birmingham, Alabama. 130

**Therapeutic targeting the MBD2-BAI1-TP53 pathway in medulloblastoma**  
Dan Zhu, Erwin G. Van Meir  
Presenter affiliation: Emory University, Atlanta, Georgia. 131

WEDNESDAY, April 18—7:00 PM

**SESSION 7** CHROMATIN MODIFICATIONS AND DYNAMICS II

**Chairperson:** Li-Jung Juan, Academia Sinica, Taipei, Taiwan

**Epigenetic regulation by histone acetylation**  
Asifa Akhtar [20'+5']  
Presenter affiliation: Max Planck Institute of Immunobiology and Epigenetics, Freiburg, Germany. 132

**PCGF3/5-PRC1 initiates Meis2 repression by competing with retinoic acid-related signals in distal forelimb bud**  
Haruhiko Koseki, Nayuta Yakushiji-Kaminatsui [10'+5']  
Presenter affiliation: RIKEN, Yokohama, Japan; CREST, Yokohama, Japan. 133

**Genistein-induced stress signaling selectively derepresses major satellite repeat transcription in mouse heterochromatin**

Thomas Fuhrmann, Matthias Walther, Megumi Onishi-Seebacher, Gunter Reuter, Thomas Jenuwein [20'+5']

Presenter affiliation: Max Planck Institute of Immunobiology and Epigenetics (MPI-IE), Freiburg, Germany.

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**Multivalent histone engagement drives chromatin targeting of the ATP-dependent chromatin remodeling factor NURF**

So Yeon Kwon, Boyun Jang, Valentina Grisan, Michelle Thompson, Ulrich Gunther, Paul Badenhorst [10'+5']

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

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**Dependence for specific chromatin remodelers defines subsets of mammalian transcription factors**

Dirk Schübeler, Darko Barisic, Michael Stadler, Mario Iurlaro [20'+5']

Presenter affiliation: Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland.

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**3D genome structure in cancer cells**

Jesse Dixon, Jie Xu, Vishnu Dileep, Ye Zhan, Fan Song, Ferhat Ay, William S. Noble, Job Dekker, David M. Gilbert, Feng Yue [10'+5']

Presenter affiliation: Pennsylvania State University, Hershey, Pennsylvania.

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THURSDAY, April 19—9:00 AM

**SESSION 8** CHROMATIN STRUCTURE, REMODELING AND ORGANIZATION

**Chairperson:** **Philipp Voigt**, University of Edinburgh, Edinburgh, United Kingdom

**Cryo-EM structure of DNA-PK holoenzyme reveals mechanisms for NHEJ**

Xiaotong Yin, Mengjie Liu, Yanhui Xu [20'+5']

Presenter affiliation: Fudan University, Shanghai, China.

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**Selective silencing of euchromatic L1s revealed by genome-wide screens for L1 regulators**

Nian Liu, Cameron Lee, Tomek Swigut, Edward Grow, Michael Bassik, Joanna Wysocka

Presenter affiliation: Stanford University, Palo Alto, California.

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**Interpreting the CpG island signal**

Rob Klose [20'+5']

Presenter affiliation: University of Oxford, Oxford, United Kingdom. 140

**Remodeling of the chromatin fiber and the nucleosome by histone chaperone FACT in gene regulation**

Guohong Li [10'+5']

Presenter affiliation: Institute of Biophysics, Chinese Academy of Science, Beijing, China. 141

**Coffee Break**

**Mechanisms of heterochromatin**

Geeta Narlikar, Adam Larson, Madeline Keenen, Sy Redding [20'+5']

Presenter affiliation: UCSF, San Francisco, California. 142

**Chromatin remodeling, from canonical nucleosomes to subnucleosomes**

Xian Xia, Xiaoyu Liu, Youpi Ye, Zhucheng Chen [10'+5']

Presenter affiliation: Tsinghua University, Beijing, China. 143

**Dynamic chromatin reprogramming during mammalian zygotic genome activation**

Wei Xie [20'+5']

Presenter affiliation: Tsinghua University, Beijing, China. 144

THURSDAY, April 19—2:00 PM

**SESSION 9** CHROMATIN FUNCTION

**Chairperson:** **Ji-Joon Song**, Korea Advanced Institute of Science and Technology, Dajeon, Korea

**Placeholder nucleosomes underlie germline-to-embryo DNA methylation and epigenetic reprogramming**

Patrick Murphy, Shan-Fu Wu, Candice Wike, Brad Cairns [20'+5']

Presenter affiliation: HHMI and University of Utah, Salt Lake City, Utah. 145

**Nucleosome–Chd1 structure and implications for chromatin remodelling**

Lucas Farnung, Seychelle M. Vos, Christoph Wigge, Patrick Cramer [10'+5']

Presenter affiliation: MPI for Biophysical Chemistry, Goettingen, Germany.

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**A new mechanism of genomic imprinting**

Yi Zhang [20'+5']

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

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**Deletion disrupting topology associated domain boundary predisposes to multiple gastrointestinal tumors**

Mervi Aavikko, Eevi Kaasinen, Noora Andersson, Päivi Sulo, Iikki Donner, Lauri J. Sipilä, Jukka-Pekka Mecklin, Camilla Schalin-Jääntti, Ari Ristimäki, Pia Vahteristo, Lauri A. Aaltonen [10'+5']

Presenter affiliation: University of Helsinki, Helsinki, Finland.

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***Coffee Break***

**Epigenetic regulation of autophagy and inflammation**

Sung Hee Baek [20'+5']

Presenter affiliation: Seoul National University, Seoul, South Korea.

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**Dynamics of chromatin marks and the role of JMJD3 during pancreatic endocrine cell fate commitment**

Xin-Xin Yu, Wei-Lin Qiu, Liu Yang, Lin-Chen Li, Yu-Wei Zhang, Cheng-Ran Xu [10'+5']

Presenter affiliation: Peking University, Beijing, China.

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**Chromatin regulation of tumor immunogenicity**

Yang Shi [20'+5']

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

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**Molecular basis for hierarchical histone de-β-hydroxybutyrylation by SIRT3**

Xingrun Zhang, Ruili Cao, Haitao Li [10'+5']

Presenter affiliation: Tsinghua University School of Medicine, Beijing, China.

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**Piwi–piRNA-mediated transcriptional transposon silencing in *Drosophila* ovarian somatic cells**

Mikiko C. Siomi [20'+5']

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

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**Methylation-sensitive profiling of genomic CpG sites using TOP-seq**

Zdislav Staševskij, Povilas Gibas, Juozas Gordevicius, Edita Kriukiene,  
Saulius Klimašauskas

Presenter affiliation: Vilnius University, Vilnius, Lithuania.

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THURSDAY, April 19—6:00 PM

**COCKTAILS and BANQUET**

FRIDAY, April 20—9:00 AM

**SESSION 10** CLOSING SESSION / KEYNOTE SPEAKERS

**Chairpersons:** **Genevieve Almouzni**, Curie Institute, France  
**Hiroyuki Sasaki**, Kyushu University, Japan  
**Yang Shi**, **Children's Hospital**, Harvard Medical School,  
USA  
**Bing Zhu**, Institute of Biophysics, CAS, China

**Mechanisms of transcriptional regulation through diverse co-activators**

Robert G. Roeder [35'+10']

Presenter affiliation: The Rockefeller University, New York, New York.

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**Epigenome maintenance in response to DNA damage**

Sophie E. Polo [20'+5']

Presenter affiliation: CNRS/Université Paris Diderot, Paris, France.

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**Coffee Break**

## **Structural biology of epigenetic regulation**

Dinshaw J. Patel [35'+10']

Presenter affiliation: Memorial Sloan-Kettering Cancer Center, New York, New York.

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## **Tyr1 phosphorylation of RNA polymerase II CTD by c-Abl directs Ser2 phosphorylation by P-TEFb**

Yan Jessie Zhang, Joshua E. Mayfield, Seema Irani, M. Rachel Mehaffey, Levi A. Walker, Jennifer Brodbelt, Nathaniel T. Buckholder, Nicholas A. Prescott [10'+5']

Presenter affiliation: University of Texas, Austin, Austin, Texas.

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## **Closing Remarks**

**Genevieve Almouzni**, Curie Institute, France

**Hiroyuki Sasaki**, Kyushu University, Japan

**Yang Shi**, Children's Hospital, Harvard Medical School, USA

**Bing Zhu**, Institute of Biophysics, CAS, China