SUNDAY, FEBRUARY 21
Arrival and Registration

MONDAY, FEBRUARY 22
Welcome and Keynote Address (Joint)
Edith Heard, European Molecular Biology Laboratory, Germany
Chromosome and Epigenetic Abnormalities in Development and Cancer

Chromatin Architecture and Gene Transcription in Development (Joint)
Speaker to be Announced
Kenneth S. Zaret, University of Pennsylvania, USA
Pioneer Factors in Gene Regulation
Eileen E.M. Furlong, European Molecular Biology Laboratory, Germany
Promoter-Enhancer Interactions in Drosophila Development
Short Talks Chosen from Abstracts

Workshop and Panel 1: Chemical Tools and Technologies (Q7)
Short Talks Chosen from Abstracts

Transcriptional Architecture in Health and Disease (Q8)
Alexander Stark, Research Institute of Molecular Pathology - IMP, Austria
Cracking the Genome-Wide Transcriptional Regulatory Code
Richard A. Young, Whitehead Institute for Biomedical Research, USA
Phase Separation in Gene Control
Speaker to be Announced
Short Talks Chosen from Abstracts

Developmental Epigenetics (Q7)
Maria-Elena Torres-Padilla, Helmholtz Centre Munich, Germany
Heterochromatin Mechanisms Programming Early Developmental Cell Fate
Ting (C.-ting) Wu, Harvard Medical School, USA
Looking at the Genome, Face to Face
Bradley R. Cairns, HHMI/University of Utah, USA
Epigenetic Programming of Early Development
Short Talks Chosen from Abstracts

Poster Session 1

TUESDAY, FEBRUARY 23
Visualizing 3D Chromatin Structures and Nuclear Architecture Interactions at Ultra-Resolutions in situ (Q8)
Clodagh C. O'Shea, The Salk Institute for Biological Studies, USA
FIREnano and Multi-Color ChromEMT: Revealing the Ultrastructure, Protein Interactions and Global 3D Organization of Chromatin in the Nucleus that Determine Gene Expression and Cell Fate
Alistair Boettiger, Stanford University, USA
Super Resolution Imaging 3D Genome Domains and Gene Expression in Embryogenesis
Ralf Jungmann, Max Planck Institute of Biochemistry, Germany
DNA-PAINTs, SOMAmers and Ultra-Resolution Fluorescence Localizomics of DNA, RNA and Protein Interactions
Elizabeth Villa, University of California, San Diego, USA
Opening Windows into the Cell: Cryo-FIB and Electron Tomography of Nuclear Protein Structures in situ
Short Talks Chosen from Abstracts

Inheritance of Chromatin States (Q7)
Anja Groth, University of Copenhagen, Denmark
Histone Modification Inheritance through Mitosis
Speaker to be Announced
Danny F. Reinberg, HHMI/New York University, USA
Histone Repressive Signature through Mitosis
Robert E. Kingston, Massachusetts General Hospital, USA
Polycomb Mechanisms of Compaction and Phase Separation
Short Talks Chosen from Abstracts

Roundtable Discussion: Gender and Diversity Issues in Biomedical Research (Joint)
Workshop and Panel 2: Models and Nontraditional Models (Q7)
Short Talks Chosen from Abstracts

Cis-Regulatory Elements in Development (Q8)
Joanna Wysocka, Stanford University, USA
Gene Regulation by Enhancers
Jussi Taipale, University of Cambridge, UK
Towards Predicting Gene Expression from DNA Sequence
Alvaro Rada-Iglesias, Universidad de Cantabria, Spain
Dissecting the Rules that Dictate the Compatibility between Genes and Enhancers
Short Talks Chosen from Abstracts

Non-Coding RNA and Epitranscriptomics (Q7)
Deborah Bourc'his, Institut Curie, France
Transposon control in spermatogenesis
François Fuks, Université Libre de Bruxelles, Belgium
Transcriptome-Wide Distribution and Function of RNA Modifications
Ramin Shiekhattar, University of Miami, USA
Integrator Role in Coordinating Transcriptional Initiation and Elongation

Short Talks Chosen from Abstracts

Poster Session 2

WEDNESDAY, FEBRUARY 24

Keynote Address (Joint)

C. David Allis, Rockefeller University, USA
When Genetics and Epigenetics Collide: Insights Gained into Human Disease

Genome Regulation Across Scales (Joint)

Geeta J. Narlikar, University of California, San Francisco, USA
Role of Phase Separation in Genome Organization
Karen Adelman, Harvard Medical School, USA
Enhancer and Promoter Interaction Regulatory Networks
Tony Kouzarides, University of Cambridge, UK
RNA Methylation Enzymes and Dysfunction in Cancer

Short Talks Chosen from Abstracts

Roundtable Discussion: Nontraditional Careers: Industry, Editorial, Open Access Publishing (Joint)

The Dynamic Genome: Imaging DNA Interactions and Transcription in Living Cells (Q8)

Xavier Darzacq, University of California, Berkeley, USA
Single Molecule Imaging of 3D Genome Organization and Viral Transcription
Ibrahim Cissé, Massachusetts Institute of Technology, USA
Super-Resolution Imaging of RNA Polymerase and Transcription in Living Cells
Michael S. Levine, Princeton University, USA
Imaging Long-Range Gene Regulation

Short Talks Chosen from Abstracts

Cancer Epigenetics (Q7)

Nada Jabado, McGill University Health Centre, Canada
Oncohistone H3K27M Mechanisms in Pediatric Glioblastoma
Luciano Di Croce, CRG - Center for Genomic Regulation, Spain
Function of Polycomb in Cancer
Shelley L. Berger, University of Pennsylvania, USA
Epigenetic Mechanisms of Wildtype and Mutant p53

Short Talks Chosen from Abstracts

Poster Session 3

THURSDAY, FEBRUARY 25

3D Epigenome Organization in Single Cells, Tissues and Disease (Q8)

Ann Dean, NIDDK, National Institutes of Health, USA
Talk Title to be Announced
Ana Pombo, Max-Delbrück-Centrum für Molekulare Medizin, Germany
Inducible DNA-Looping and Genome Misfolding in Neurological Disease
Jason Buenrostro, Harvard University, USA
Single-Cell Epigenomics: Gene Regulation at Unprecedented Resolution

Short Talks Chosen from Abstracts

Genomics, Proteomics, Computational Modeling (Q7)

Bradley E. Bernstein, Massachusetts General Hospital, USA
Cancer Genomes in 3-dimensions
X. Shirley Liu, Dana-Farber Cancer Institute, USA
Computational Modeling of Cancer Gene Regulation
Bing Ren, Ludwig Institute for Cancer Research, USA
Gene Regulatory Networks in Mammalian Cells Proliferation and Differentiation

Speaker to be Announced

Short Talks Chosen from Abstracts

Nuclear Mechanics, Architecture and Cell Fate (Q8)

Karla M. Neugebauer†, Yale University, USA
Nuclear Bodies, RNA Splicing and Export in Development and Disease
Jan Lammerding†, Cornell University, USA
Nuclear Envelope Mutations, Mechanotransduction and Morphometrics in Cell Migration, Aging and Cancer
Xin Chen, Johns Hopkins University, USA
Asymmetric Histone Incorporation and Segregation during Asymmetric Cell Division

Short Talks Chosen from Abstracts

Chaperones/Elongation (Q7)

Geneviève Almouzni, Centre National de la Recherche Scientifique, France
Chaperone and Histone Variants, a Partnership to Shape Chromatin
Karolin Luger, University of Colorado Boulder, USA
Chromatin Structure and Dynamics
Ali Shilatifard, Northwestern University, USA
Mechanisms and Therapeutics of Super Elongation Complex

* Session Chair † Invited but not yet accepted     Program current as of March 15, 2020. Program subject to change. Meal formats are based on meeting venue. For the most up-to-date details, visit https://www.keystonesymposia.org.
Short Talks Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Q8)
Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Q7)

FRIDAY, FEBRUARY 26
Departure