SUNDAY, FEBRUARY 27
Arrival and Registration

MONDAY, FEBRUARY 28
Welcome and Keynote Address (X1)
Michael D. Purugganan, New York University, USA
*Plant Evolutionary Genomics*

Welcome and Keynote Address (X2)
Cigall Kadoch, Dana-Farber Cancer Institute, Harvard Medical School, USA
*Chromatin Remodeling Complexes and their Targeting in Cancer*

In Sickness and in Health: Transposons in Aging, Neurobiology, and Genetic Disease (X1)
Vera Gorbunova, University of Rochester, USA
*Transposable Elements in Aging*
E. Alice Lee, Boston Children’s Hospital & Harvard Medical School, USA
*Transposable Elements in Neurobiology*
Jacob R. Rubens, Tessera Therapeutics, USA
*Advancing Genetic Medicine by Gene Writing™*
Short Talk(s) Chosen from Abstracts

Targeting Epigenetic Pathways in Cancer (X2)
Ali Shilatifard, Northwestern University, USA
*Intervening with Epigenetic Pathways in Solid Tumors*
Mark A. Dawson, Peter MacCallum Cancer Centre, Australia
*Targeting the Epigenome for Therapeutic Gain*
Tony Kouzarides, University of Cambridge, UK
*Disruption of RNA Modification Pathways in Cancer*
Short Talk(s) Chosen from Abstracts

Genomic Battlegrounds: Evolutionary Conflicts and Arms Races in the Mobilome (X1)
Harmit S. Malik, Fred Hutchinson Cancer Research Center, USA
*Mobile Elements and Genetic Conflict*
Zhao Zhang, Duke University, USA
*Chasing the Jumping Genes*
Tetsuji Kakutani, University of Tokyo, Japan
*Transposon Epigenetic Control in Arabidopsis*
Short Talk(s) Chosen from Abstracts

Targeting Transcription in Cancer (X2)
Kristian Helin, University of Copenhagen and Memorial Sloan Kettering Cancer Center, Denmark
*Epigenetic Regulation of Transcription*

TUESDAY, MARCH 1
Poster Session 1

In Sickness and in Health: Transposons in Aging, Neurobiology, and Genetic Disease (X1)
Karen Adelman, Harvard Medical School, USA
*Rewiring of Transcriptional Enhancers in Cancer and in Response to Therapeutics*
Musa M. Mhlanga, Radboud Institute for Molecular Life Sciences, Netherlands
*Compartmentalisation and Gene Interplay in Transcription*
Short Talk(s) Chosen from Abstracts

Chromatin Structure and Regulation (X2)
Robert E. Kingston, Massachusetts General Hospital, USA
*Nucleosome Compaction and Phase Transition in Repression*
Luciano Di Croce, CRG - Center for Genomic Regulation, Spain
*Mechanisms of Polycomb-Mediated Silencing*
Shelley L. Berger, University of Pennsylvania, USA
*Epigenetic Enzymes and their Miss-Function in Disease*
Ibrahim Cissé, California Institute of Technology, USA
*Imaging Chromatin*
Short Talk(s) Chosen from Abstracts

Panel 1: Careers in Industry and Academia (X2)
Short Talks Chosen from Abstracts

* Session Chair † Invited but not yet accepted
Program current as of September 18, 2021. Meal formats are based on meeting venue.
For the most up-to-date details, visit https://www.keystonesymposia.org.
Mechanisms of RNA and DNA Modulation in Cancer (X2)
Ramin Shiekhattar, University of Miami, USA
RNA Processing by the Integrator-Complex and Its Role in Cancer
François Fuks, Université Libre de Bruxelles, Belgium
Mapping and Function of RNA Modifications in Cancer
Salvador Aznar Benitah, ICREA and Institute for Research in Biomedicine, Spain
Lipid Metabolism in Cancer Metastasis
Short Talk(s) Chosen from Abstracts

Poster Session 2

WEDNESDAY, MARCH 2

Transposable Elements in Cancer (Joint)
Kathleen H. Burns, Harvard Medical School, USA
LINE-1 Expression and Retrotransposition in Cancer
Ting Wang, Washington University, USA
Transposable Elements in Development and Driving Gene Expression in Cancer
Bradley E. Bernstein, Massachusetts General Hospital, USA
Epigenetic and Topologic Changes that Restrain Malignancies
Katherine Chiappinelli, George Washington University, USA
Transposable Elements and Cancer Therapy
Short Talks Chosen from Abstracts

Panel 2: Women in Science (X2)
Short Talks Chosen from Abstracts

Transposon Domestication and Co-Option at the DNA, RNA and Protein Levels (X1)
Cedric Feschotte, Cornell University, USA
Transposon Domestication
Miguel Branco, Queen Mary University of London, UK
Placental Gene Regulation by Transposable Elements
Edward B. Chuong, University of Colorado Boulder, USA
Transposon Repurposing in Gene Networks
Short Talk(s) Chosen from Abstracts

Epigenetics in Inheritance and Development (X2)
Anne C. Ferguson-Smith, University of Cambridge, UK
Mammalian Epigenetic Inheritance - Models and Mechanisms
Marisa S. Bartolomei, University of Pennsylvania Perelman School of Medicine, USA
DNA Methylation in Reprogramming
Anne Brunet, Stanford University, USA
Molecular Basis of Longevity and Age-Related Diseases
Short Talk(s) Chosen from Abstracts

THURSDAY, MARCH 3

Transpositions across Genome Compartments: Euchromatin, Telomeres, Centromeres, Genomic Islands (X1)
Alla Kalmykova†, Institute of Molecular Genetics, Russia
Transposon Control Mechanisms in Telomere Biology
José R. Penadés, Imperial College London, UK
Transposons and Virulence and Resistance Factors
Amanda Larracuente, University of Rochester, USA
Selfish DNAs and Satellites
Fangpu Han, Chinese Academy of Sciences, China
Plant Chromosome Biology
Short Talks Chosen from Abstracts

Epigenetic Drug Discovery in Cancer (X2)
Rab K. Prinjha, GlaxoSmithKline, UK
Translating Novel Epigenetic Drugs into the Clinic
Shefali Agarwal, Epizyme, Inc., USA
Role of EZH2 Inhibitor as an Epigenetic Target in Oncology
Tamara Maes, Oryzon Genomics, Spain
Talk Title to be Announced
Ho Man Chan, AstraZeneca, USA
Targeting Epigenetic Pathways in Cancers
Short Talk(s) Chosen from Abstracts

Structural and Mechanistic Underpinnings of Transposition across the Kingdoms of Life (X1)
Orsolya Barabas, European Molecular Biology Laboratory, Germany
Transposable Element-Mediated DNA Rearrangements
Phoebe A. Rice, University of Chicago, USA
Mobile DNA at the Molecular Level
Speaker to be Announced
Short Talks Chosen from Abstracts

Epigenetics in Diagnosis and Treatment of Cancer (X2)
Kimberly Stegmaier, Dana-Farber Cancer Institute, USA
Treatments in Pediatric Oncology
Joanna Holbrook, Epigenetix, UK
Diagnosis using DNA Methylation
Dan A. Landau, Weill Cornell Medicine, USA
Clonal Evolution in Cancer Care
Short Talk(s) Chosen from Abstracts

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

* Session Chair † Invited but not yet accepted
Program current as of September 18, 2021. Meal formats are based on meeting venue.
For the most up-to-date details, visit https://www.keystonesymposia.org.
FRIDAY, MARCH 4

Departure