EpiCypher 2023 CONFERENCE

Biological and Clinical Frontiers in Epigenetics Nov 5-10 | Grand Fiesta Americana Coral Beach | Cancún, MX

Co-Organizers:

Mark Bedford MD Anderson Houston, Texas, USA

Or Gozani Stanford University Stanford, California, USA

Brian Strahl University of North Carolina Chapel Hill, North Carolina, USA

Sunday, Nov 5, 2023	
4:00PM – 7:00PM	Hotel and Conference Check-in: Lobby
Welcome & Keynote Address 5:30PM – 6:30PM Grand Coral Ballroom	Conference Welcome: Or Gozani Keynote Address Introduction: Brian Strahl Inaugural <i>C. David Allis Memorial Lecture</i> Nada Jabado, McGill University "Oncohistones: Tell a tale of a Histone (3) tail"
Session 1: 6:30PM – 7:30PM Grand Coral Ballroom	Chromatin in Epigenetics & Cancer Regulation Session Chair: Mark Bedford, UT MD Anderson Cancer Center
6:30PM – 6:50PM	Speaker 1: Yang Shi , Oxford University & Ludwig Institute "Chromatin regulation and cancer"
6:50PM – 7:10PM	Speaker 2: Jonathan Whetstine , Fox Chase Cancer Center "Epigenetics: A gatekeeper for extrachromosomal DNA amplification and rearrangements"
7:10PM – 7:30PM	Speaker 3: Greg Wang , Duke University <i>"Understanding chromatin modification in gene regulation and pathogenesis"</i>
7:30PM - 10:30PM	Welcome Reception and Dinner: Sunrise Terrace

Monday, Nov 6, 2023	
7:00 AM – 9:00AM	Breakfast: On Own
Session 2: 9:00AM - 11:00AM Grand Coral Ballroom	Chromatin & Cancer Regulation I Session Chair: Yael David , Memorial Sloan Kettering Cancer Center
9:00AM – 9:20AM	Speaker 4: Scott Armstrong , Harvard Medical School & Dana Farber Cancer Institute <i>"Mechanisms of Resistance to Menin:MLL Inhibition"</i>
9:20AM – 9:40AM	Speaker 5: Hong Wen , Van Andel Research Institute <i>"The histone acetylation reader ENL in cancer"</i>
9:40AM – 10:00AM	Speaker 6: Brad Bernstein , Harvard Medical School & HHMI <i>"Modeling and targeting epigenetic drivers of tumorigenesis"</i>
10:00AM – 10:20AM	Speaker 7: Ji Min Lee , Korea Advanced Institute of Science and Technology <i>"Reprogramming tumor microenvironment by designed affinity improved epigenetic reader at chromatin marks"</i>
10:20AM – 10:40AM	Speaker 8: Ari Melnick , Weill Cornell College of Medicine "Epigenetic plasticity in the immune system"

11:00AM – 11:20AM Coffee Break: Grand Coral Foyer Session 3: 11:20AM – 1:00PM DNA Methylation in Epigenetics Session Chair: Scott Rothbart, Van Andel Research Institute "Deciphering the Mechanisms and Roles of DNA Methylation in Cancer" 11:20AM – 11:40AM Speaker 10: Peter Jones, Van Andel Research Institute "Deciphering the Mechanisms and Roles of DNA Methylation in Cancer" 11:40AM – 12:00PM Speaker 11: Taiping Chen, UT MD Anderson Cancer Center "DNA methylation in mammalian development" 12:00PM – 12:20PM Speaker 12: Steve Jacobsen, UCLA, HHMI "Mechanisms and applications of DNA methylation and gene silencing in plants" 12:20PM – 12:40PM Speaker 13: Romualdo Ciau-Uitz, Biomodal "Discriminating 5mC and 5hmC at single-base resolution" 12:40PM – 1:00PM Speaker 14: Peggy Goodell, Baylor College of Medicine "Epigenetic mechanisms driving clonal hematopolesis" 11:00PM – 4:00PM Lunch: On Own & Free Time Session 4: 4:00PM – 6:00PM Molecular, Structural and Proteomic Regulation of Epigenetics Session Chair: Catherine Musselman, University of Colorado School of Medicine 4:00PM – 4:20PM Speaker 16: Tanya Kutateladze, University of Colorado School of Medicine */a0PM – 5:00PM Speaker 17: Catherine Musselman, University of Colorado School of Medicine */suoPM – 5:00PM Speaker 18: Nick Young, Baylor College of Medicine "Nucleosome conformation dictates the histone code" 5:00PM – 5:20PM Speaker 19: Michael	10:40AM – 11:00AM	Speaker 9: Erin Green , University of Maryland Baltimore County <i>"Signaling functions for the protein methyltransferase SMYD3 in prostate cancer"</i>
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Session 5: 6:20PM – 7:20PM Grand Coral Ballroom	Epigenetic and Chromatin Frontiers I Session Chair: Chao Lu, Columbia University
6:20PM – 6:40PM	Speaker 21: Chao Lu , Columbia University <i>"The interplay between histone and DNA methylation in development and disease"</i>
6:40PM – 7:00PM	Speaker 22: Robert Schneider , Helmholtz Institute <i>"Novel Players in chromatin"</i>
7:00PM – 7:20PM	Speaker 23: Scott Rothbart , Van Andel Research Institute <i>"Molecular mechanisms of chromatin signaling and epigenetic regulation"</i>
7:20PM	Dinner: On Own / Pre- or Post-dinner drinks at lobby bar
Tuesday Nov 7, 2023	
7:00AM – 9:00AM	Breakfast: On Own
Session 6: 9:00 AM – 11:00AM Grand Coral Ballroom	Target Discovery & Drugging the Epigenome Session Chair: Jian Jin, Icahn School of Medicine at Mount Sinai
9:00AM – 9:20AM	Speaker 24: Raghuvir Sengupta , Pfizer <i>"BRPF1 Alters the Substrate Preference of KAT6A from H3K14 to</i> <i>H3K23"</i>
9:20AM – 9:40AM	Speaker 25: Stephane Richard , McGill University <i>"Targeting PRMT7 for cancer therapy"</i>
9:40AM – 10:00AM	Speaker 26: Elisabeth Martinez , UT Southwestern <i>"Jumonji histone demethylases at the crossroads of transcriptional maladaptation"</i>
10:00AM – 10:20AM	Speaker 28: Ryan Kruger , Anagenex <i>"Drugging Challenging Targets using DNA Encoded Library powered Machine Learning"</i>
10:20AM – 10:40AM	Speaker 29: Jian Jin , Icahn School of Medicine at Mount Sinai <i>"Novel Approaches to Target Undruggable Proteins"</i>
10:40AM – 11:00AM	Speaker 30: Pawel Mazur , UT MD Anderson Cancer Center <i>"Therapeutic Targeting of NSD2 for the Treatment of Solid Tumors"</i>
11:00AM – 11:20AM	Coffee Break: Grand Coral Foyer
Session 7: 11:20AM – 1:00PM Grand Coral Ballroom	Chromatin & Cancer Regulation II Session Chair: Cihangir Duy, Fox Chase Cancer Center
11:20AM – 11:40AM	Speaker 31: Ho Man Chan , AstraZeneca "Discovery of MTA-cooperative PRMT5 inhibitor for MTAP-deleted cancers"

Speaker 32: Wei Xu , U. of Wisconsin, McArdle laboratory for Cancer Research <i>"CARM1 is a therapeutic vulnerability in human breast cancer"</i>
Speaker 33: Nicolas Reynoird , University of Grenoble Institute for Advanced Biosciences <i>"Cytoskeleton remodeling induced by SMYD2 methyltransferase drives breast cancer metastasis"</i>
Speaker 34: Sung Hee Baek , Seoul National University <i>"Epigenetic regulation in regeneration and cancer"</i>
Speaker 35: Ernesto Guccione , Icahn School of Medicine at Mount Sinai <i>"Precision Medicine in Solid Tumors: New Tools and (some) New</i> <i>Ideas"</i>
Lunch: On Own & Free Time
Dinner: Buffet & Bar Odd numbered posters: 7:30PM – 9:00PM Even numbered posters: 9:00PM – 10:30PM

Wednesday, Nov 8, 2023	
7:00AM – 9:00AM	Breakfast: On Own
Session 8: 9:00AM – 11:00AM Grand Coral Ballroom	The Nucleosome & Chromatin Remodeling in Health & Dis Session Chair: Emily Bernstein, Icahn School of Medicine at Mount Sinai
9:00AM – 9:20AM	Speaker 36: David Shechter , Albert Einstein College of Medic "Glutamate-glutamylation of histone chaperone acidic disorder regions increases DNA mimicry to enhance their efficiency"
9:20AM – 9:40AM	Speaker 37: Emily Bernstein , Icahn School of Medicine at Mo Sinai <i>"Histone variant regulation of the melanoma tumor microenvironment"</i>
9:40AM – 10:00AM	Speaker 39: David Lahr , Foghorn Therapeutics <i>"Investigation of FHD-609, a potent degrader of BRD9, in precl models of acute myeloid leukemia (AML)"</i>
10:00AM – 10:20AM	Speaker 40: Andres Blanco , University of Pennsylvania <i>"Identification and interrogation of MOZ complex subunits drivin</i> <i>differentiation arrest in AML"</i>
10:20AM – 10:40AM	Speaker 41: Capucine Van Rechem , Stanford School of Medi <i>"From mSWI/SNF's roles in protein synthesis to new therapeut</i> <i>opportunities"</i>
10:40AM - 11:00AM	Coffee Break: Grand Coral Foyer

Session 9: 11:00AM – 12:40PM Grand Coral Ballroom	Chromatin Regulation of DNA-Templated Processes Session Chair: Marc Timmers , Albert-Ludwigs-Universität Freiburg
11:00AM – 11:20AM	Speaker 42: Sriharsa Pradhan , New England Biolabs "Integrative Visual and Functional Genomics Using Novel Bifunctional Nicking Enzyme Reveals NPM1 as a Transcription Factor"
11:20AM – 11:40AM	Speaker 43: Marc Timmers , Albert-Ludwigs-Universität Freiburg <i>"Basal transcription factor TFIID in neurodevelopment and neurodegeneration"</i>
11:40AM – 12:00PM	Speaker 44: Jacques Côté , Laval University Cancer Research Center <i>"The Myst-family of Acetyltransferase complexes in epigenetic cross-talk linked genome expression and maintenance"</i>
12:00PM – 12:20PM	Speaker 45: Tamaki Suganuma , Stowers Institute for Medical Research "Association of the ATAC histone acetyltransferase complex with MPTAC (the molybdopterin synthase associating complex) links alkylation damage signaling to sterol biosynthesis"
12:20PM – 12:40PM	Speaker 46: Jessica Tyler , Weill Cornell Medical School <i>"Multivalent binding of the tardigrade Dsup protein to chromatin promotes yeast survival and longevity upon exposure to oxidative damage"</i>
12:40PM – 4:00PM	Lunch: On Own & Free Time
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6:00PM – 6:20PM	Coffee Break: Grand Coral Foyer
Session 11: 6:20PM – 7:20PM Grand Coral Ballroom	Trainee Talks Session Chair: Kanishk Jain , University of North Carolina
6:20PM – 6:32PM	Speaker 53: Abid Khan , Postdoctoral Fellow, University of North Carolina <i>"SETD2 maintains nuclear lamina stability to safeguard the genome"</i>
6:32PM – 6:44PM	Speaker 54: Wajih Jawhar , Graduate Student, McGill University <i>"EZHIP Blocks Mesenchymal Development and Drives Aggressive Osteosarcoma"</i>
6:44PM – 6:56PM	Speaker 55: Jon Markert , Postdoctoral Fellow, Harvard Medical School <i>"Characterizing the co-transcriptional deposition of H3K36me3 by</i> <i>SETD2"</i>
6:56PM – 7:08PM	Speaker 56: Claudia Gentile , Postdoctoral Fellow, Dana-Farber Cancer Institute <i>"Phosphorylation-dependent targeting of mSWI/SNF chromatin remodeling complexes promotes oncogenic EGFR and BRAF signaling in human cancer"</i>
7:08PM – 7:20PM	Speaker 57: Edwin Neumann , Graduate Student, MIT "Engineering a Compact Epigenome Editor for Biological Discovery and Therapeutic Intervention in the Brain"
7:20PM	Dinner: On Own / Pre- or Post-dinner drinks at lobby bar

Thursday, Nov 9, 2023	
7:00AM – 9:00AM	Breakfast: On Own
Session 12: 9:00AM – 11:00AM Grand Coral Ballroom	Epigenomic Frontiers Session Chair: Bing Ren, UCSD
9:00AM – 9:20AM	Speaker 58: Bing Ren , UCSD "Comparative single cell epigenomic analysis of gene regulatory programs in the rodent and primate neocortex"
9:20AM – 9:40AM	Speaker 59: Nadiya Khyzha , Fred Hutchinson Cancer Center <i>"Profiling RNA At Chromatin Targets In Situ By Antibody-Targeted Tagmentation"</i>
9:40AM – 10:00AM	Speaker 60: Issac Hilton , Rice University <i>"Epigenome editing technologies for in situ dissection of epigenetic regulatory mechanisms."</i>
10:00AM – 10:20AM	Speaker 61: Chris Hartl , Epigenome Technologies <i>"Paired-Tag and Droplet Paired-Tag: Unravelling Cell-Type-Specific Epigenetic Landscapes in the Human Brain"</i>
10:20AM – 10:40AM	Speaker 62: Winston Timp, Johns Hopkins University

10:40AM – 11:00AM	<i>"Single Molecule Epigenetics: at large and small scale"</i> Speaker 63: Alex Ruthenburg , University of Chicago <i>"Quantitative evaluation of nucleosomal bivalency in early</i> <i>development</i>
11:00AM – 11:20AM	Coffee Break: Grand Coral Foyer
Session 13: 11:20AM – 1:00PM Grand Coral Ballroom	Epigenetic and Chromatin Frontiers II Session Chair: Justin Brumbaugh, University of Colorado
11:20AM – 11:40AM	Speaker 64: Xiaobing Shi , Van Andel Research Institute <i>"Histone acetylation: reading, writing, and beyond"</i>
11:40AM – 12:00PM	Speaker 65: Matthew Lorincz , University of British Columbia "Crosstalk between histone methylation, DNA methylation and transcription: Lessons from mouse models of chromatin factor deficiencies"
12:00PM – 12:20PM	Speaker 66: Fei Lan , Fudan University <i>"Extending the importance of lysine methylation to mRNA translation"</i>
12:20PM – 12:40PM	Speaker 67: Douglas Phanstiel , University of North Carolina "Chromatin loop dynamics during cellular differentiation are associated with changes to both anchor and internal regulatory features."
12:40PM – 1:00PM	Speaker 68: Danesh Moazed , Harvard Medical School & HHMI <i>"How epigenetic memory is propagated"</i>
1:00PM – 5:00PM	Lunch: On Own & Free Time
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Session 14: 5:00PM – 6:20PM Grand Coral Ballroom	Epigenetic Frontiers Session Chair: Steve Josefowicz, Weill Cornell Medical School
5:00PM – 5:20PM	Speaker 69: Genevieve Almouzni , Curie Institute "Shaping chromatin and cell fate, a choreography involving histones and partners"
5:20PM – 5:40PM	Speaker 70: Maria Elena Torres-Padilla , Helmholtz Institute <i>"Epigenetic mechanisms of cell fate"</i>
5:40PM – 6:00PM	Speaker 71: Steve Josefowicz , Weill Cornell Medical School "Signaling to chromatin for rapid transcription and epigenetic memory"
6:00PM – 6:20PM	Speaker 72: Hiten Madhani , UCSF "Targeted high throughput mutagenesis of the human spliceosome reveals its in vivo operating principles."
6:20PM – 7:00PM	Free Time
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7:00PM	Closing Reception and Dinner: Sunrise Terrace