



Poster Session A Friday, March 2, 2018 4:30 p.m. - 7:00 p.m. Grand Ballroom DEF

A01, PR14	Reprogramming of DNA and histone methylome by cancer-associated histone H3 mutations. Chao Lu, Columbia University, New York, New York.
A02	Delineating differential transcriptional roles for the ZBTB family of methyl-CpG binding proteins in cancer. Bethany Buck-Koehntop, University of Utah, Salt Lake city, UT.
A03, PR01	DNA and histone methyltransferase inhibitors cooperate to increase viral mimicry in cancer cells. Minmin Liu, Van Andel Research Institute, Grand Rapids, Michigan.
A04	UHRF1 depletion and HDAC inhibition synergistically reactivate epigenetically silenced genes in colorectal cancer cells. Hiromu Suzuki, Sapporo Medical University, Sapporo, Hokkaido, Japan.
A05, PR02	Investigating the mechanisms by which ZBTB38 recognizes methylated DNA and modulates transcription. Nicholas Hudson, University of Utah, Salt Lake City, Utah.
A07, PR03	Mismatch repair proteins initiate epigenetic alterations during inflammation-driven tumorigenesis. Heather O'Hagan, Indiana University School of Medicine, Bloomington, IN.
A08	Epigenetic characterization of cancer-associated fibroblasts: Implication for epigenetic reprogramming therapy. Masahiro Maeda, Division of Epigenomics, National Cancer Center Research Institute, Tokyo, Japan.
A09	Epigenome and transcriptome analyses by Methyl-seq and RNA-seq on the protective effects of ursolic Acid against UVB-irradiated inflammation in Nrf2 knockout and wild-type C57BL/6J Mice. Yuqing (Anne) Yang, Rutgers University, Piscataway, NJ.
A10, PR07	Synthetic lethal targeting of TET2 loss in myeloid malignancies by TOP1 inhibitors. Chang-Bin Jing, Dana-Farber Cancer Institute, Boston, MA.
A11	Loss of hydroxymethylcytosine is an independent adverse prognostic factor in clear cell Renal Cell Carcinoma (ccRCC) and can be abrogated by Ascorbic acid mediated TET activation. Niraj Shenoy, Mayo Clinic Rochester, Rochester, MN.
A12, PR05	Genome-wide 5-hydroxymethylcytosine alterations in medulloblastoma. Hyerim Kim, Emory University, Atlanta, Georgia.
A13	Mutational cooperativity of TET2 in peripheral T cell lymphoma. Yun Huang, Texas A&M University, Houston, TX.
A14, PR08	Identification of specific readers of epigenetic modifications in human bronchial epithelial cells using a quantitative proteomics approach. Jenna Fernandez, Masonic Cancer Center, Minneapolis, MN.
A16	Safety and tolerability of guadecitabine (SGI-110) plus cisplatin in patients with platinum-refractory germ cell tumors (GCT): a phase 1 study. Costantine Albany, Indiana University,

Indianapolis, IN.

- A17 Integrative Epigenetic Analysis Reveals Therapeutic Targets to the DNA Methyltransferase Inhibitor SGI-110 in Hepatocellular Carcinoma Cells. Gangning LiangC Norris Comprehansive Cancer Center, Los Angeles, California.
- A18 Rigosertib (RIG) Alone or in Combination with Azacitidine or Vorinostat has chromatin modifying effects and Epigenetically Reprograms Hematopoietic stem and progenitor cells in the Myelodysplastic Syndrome. Lewis Silverman, Icahn School of Medicine, New York, New York.
- A19, PR06 Relapsing and refractory acute myeloid leukemia patients reveal converging genetic and epigenetic features suggesting common treatment strategies and response biomarkers.. Timothy Triche, VARI, Grand Rapids, MI.
- A20 Profiling breast cancer for decitabine response indicators reveals deoxycytidine kinase as key determinant of sensitivity. Margaret Thomas, Dalhousie University, Halifax, NS, Canada.
- A21 Decitabine as a new therapeutic agent for T-cell acute lymphoblastic leukemia. Morgan Thénoz, Center for Medical Genetics (CMGG), Ghent University Hospital, Cancer Research Institute Ghent (CRIG), Ghent, Belgium.
- **A22** Preclinical study of epigenetic drug-based differentiation therapy for neuroblastoma. Naoko Hattori, National Cancer Center Research Institute, Tokyo, Japan.
- A phase I trial of the epigenetic regulators, oral 5-azacitidine and romidepsin, for the treatment of advanced solid tumors, with a focus on virally mediated cancers and liposarcoma. Stephanie Gaillard, Johns Hopkins School of Medicine, Baltimore, MD.
- A24 Development of gene regulation pyrrole-imidazole polyamides targeting the epigenetic deregulation biomarkers in oral squamous cell carcinoma. TZE-TA HUANG, Institute of Oral Medicine, National Cheng Kung University, Tainan, Taiwan.
- **A25**, PR17 Epigenetic regulation of noncoding RNA in cancer and its effects on the immune microenvironment. Katherine Chiappinelli, The George Washington University, Washington, DC.
- A26 DNA methylation signatures associated with pituitary macroadenomas functional status. Maritza Mosella, Henry Ford Health System, Detroit, MI.
- **A27 Epigenetic regulation in Ewing sarcoma.** Sheetal Mitra, Children's Hospital Los Angeles, Los Angeles. California.
- A28 Using LacZ reporter to investigate L1 expression and epigenetic regulation during mouse development. Wenfeng An, South Dakota State University, Brookings, SD.
- **A29** Functional screens of tumor-specific enhancers in clear cell renal cell carcinoma. Xiaosai Yao, IMCB, Singapore, Singapore, Singapore.
- A DNA methylation Canyon in gene desert act as a regulation scaffold for HOXA genes in stem cell self-renewal and leukemia development.. Xiaotian Zhang, Van Andel Institute, Grand Rapids.
- A31 ZBTB46 is a novel oncogene that contributes to castration-resistant prostate cancer through activation of microRNA-1 DNA methylation. Yen-Nien Liu, Graduate Institute of Cancer Biology and Drug Discovery, College of Medical Science and Technology, Taipei Medical University, Taipei, Taiwan, Taiwan.
- A32, PR10 Targeting CDK9 reactivates epigenetically silenced genes in cancer. Hanghang Zhang, Fels Institute for Cancer Research, Temple University School of Medicine, Philadelphia, PA.
- A33 CTCs contribution in cancer therapy and progression. Nise Yamaguchi, Hospital Israelita Albert Einstein, São Paulo, SP, Brazil.
- A34 Epigenetic and transcriptional regulator gene mutations in relapsed acute myeloid leukemia
br/>. Samuli Eldfors, University of Helsinki, Helsinki, Finland.

- A35 Reversible LSD1 (KDM1A) inhibition with HCl2509 is growth inhibitory in bladder cancer cell lines and causes gene expression changes that reveal rational therapeutic partners. Sumati Gupta, Hunstman Cancer Institute, Salt Lake City, Utah.
- A36 Epigenetic reprogramming of epithelial mesenchymal transition in triple negative breast cancer cells with SGI-110 and MS275. Yanrong Su, Fox Chase Cancer Center-Temple University Health System, Philadelphia, Pennsylvania.





Poster Session B
Saturday, March 3, 2018
12:30 p.m. – 3:00 p.m.
Grand Ballroom DEF

B02, PR13	Targeted disruption of SIN3 chromatin regulator complex function inhibits metastasis and improves survival in triple negative breast cancer. Samuel Waxman, Icahn School of Medicine at Mount Sinai, New York, NY.
B03	Thymine DNA glycosylase as a novel target for melanoma. Alfonso Bellacosa, Fox Chase Cancer Center, Philadelphia, PA.
B04	Epigenome modification of prostate adenocarcinoma by the dietary phytochemical ursolic acid in prostate specific PTEN-/- mice. Chao Wang, Department of Pharmaceutics, Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, Piscataway, New Jersey.
B05	Sulforaphane epigenetically demethylates the CpG sites of the miR-9-3 promoter and reactivates miR-9-3 expression in human lung cancer A549 cells. David Cheng, Rutgers University, Piscataway, NJ.
B06	Aspirin treatment inhibits LINE-1 expression in human colon cancer cell line. Ekavali Ekavali, South Dakota State University, Brookings, South Dakota.
B07, PR04	DNA methylation patterns separate senescence from transformation potential and indicate cancer risk. Hariharan Easwaran, The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, The Johns Hopkins University School of Medicine, Baltimore, MD.
B08	DNA methylation changes at enhancers define master regulators in glioma progression. Houtan Noushmehr, Department of Neurosurgery, Hermelin Brain Tumor Center, Henry Ford Hospital, Detroit, Michigan.
B09	Epigenetic mechanisms drive cellular reprogramming in pancreatic carcinogenesis. Ivonne Regel, Department of Medicine II, University Hospital, Ludwig-Maximilian University Munich, Munich, Germany.
B10	Clinically significant subgroups of Wilms tumors are defined by genome-wide DNA methylation patterns. Jack Brzezinski, Hospital for Sick Children, Toronto, Ontario, Canada.
B11	DNMT3B induction at distant site promotes breast cancer metastasis through epigenetic reprogramming. Jae Young So, NIH, Bethesda, MD.
B12	Early loss of monoubiquitylation of Histone H2B alters key immune signaling pathways promoting the progression of high-grade serous ovarian cancer. Jagmohan Hooda, University of Pennsylvania, Philadelphia, PA.
B13, PR16	The role of long noncoding RNA mediated disruption of SWI/SNF in prostate cancer. Jesse Raab, UNC Chapel Hill, Chapel Hill, NC, 27599.

Epigenetic targeting of adipocytes inhibits high-grade serous ovarian cancer cell migration and

invasion. Jessica Tang, Indiana University, Bloomington, IN.

B14

- **B15** The histone methyltransferase DOT1L is a potential therapeutic target in multiple myeloma. Kazuya Ishiguro, Department of Gastroenterology and Hepatology, Sapporo Medical University School of Medicine, Sapporo, Hokkaido, Japan. B16, PR11 p16 epimutation: Function in intestinal tumorigenesis and as a target for therapy. Lanlan Shen, Baylor College of Medicine, Houston, TX. **B17** Methylation status at the SMPD3 promoter in hepatocellular carcinoma correlates with SMPD3 gene expression and liver function markers. Maarit Tiirikainen, University of Hawaii Cancer Center, Honolulu, HI. **B18** A Trichostatin A/Sp1 mediated mechanism for the regulation of SALL2 tumor suppressor in Jurkat T leukemia cells. Matias Hepp, Universidad de Concepcion, Concepcion, BioBio, Chile. **B19** Deregulation of DNA demethylation in inflammation and cancer. Natalia Tretyakova, University of Minnesota, Minneapolis, MN. CRISPR screening to assess genetic vulnerabilities in mutant IDH1-dependent models of B20. PR15 different lineages. Lindsey Rodrigues, Novartis Institutes for Biomedical Research, Cambridge, Massachusetts. Combining enhancer DNA methylation and RNA-seq to identify gene regulatory network **B21** changes in cancer. Nicole Yeager, Cedars-Sinai Medical Center, Los Angeles, CA. **B22** The histone methyltransferase Suv420h2 prevents the epithelial-to-mesenchymal transition (EMT) by restraining the mesenchymal program in luminal breast cancer cells. Priya Kapoor, Emory University, Atlanta, GA. **B23** Epigenetic and genetic modification of tumor necrosis factor alpha and associated biomarkers on human prostate cancer LNCaP, PC-3 and DU145 cells induced by ursolic acid and sulforaphane. Ran Yin, Rutgers, the State University of New Jersey, Piscataway Township, NJ. **B24** Epigenome Modification and Cancer Prevention by Curcumin in Colitis-accelerated Colon Cancer in Mice. Renyi Wu, Rutgers University, Piscataway, New Jersey. B25. PR09 Discovery of selective, non-covalent small molecule inhibitors of DNMT1. Melissa Pappalardi. GlaxoSmithKline, Collegeville, PA. **B26** Potential role of the splicing factor SF3B1 in epigenetic regulation. Sandra Deliard, Temple University School of Medicine, Philadelphia, PA. **B27** Identification of epigenetically silenced breast cancer driver genes. Shoghag Panjarjan, Fels Institute, Temple University, Philadelphia, PA.
- B29 Genome-wide methylation profiling of matched glioblastoma, patient-derived neurospheres, and xenograft models. Tathiane Malta, Henry Ford Hospital, Detroit, Michigan.

Epigenetic changes mediated by Ring1b are an important prerequisite for acinar-to-ductal metaplasia and pancreatic carcinogenesis. Simone Benitz, Department of Internal Medicine II,

B30 Aggressive glioma G-CIMP subtype is defined by loss of 5-hydroxymethylcytosine associated with genomic enhancers. Thais Sabedot, Henry Ford Hospital, Detroit, MI.

University Hospital, Ludwig-Maximilian University Munich, Munich, Bayaria, Germany.

B28

- B31 Combination effect of sulforaphane and epigenetic alternations reagents for metastatic melanoma treatment. Tung-chin Chiang, University of Arkansas for Medical Sciences, Little Rock, AR.
- B32 Tumor-suppressive miR-145 co-repressed by TCF4-β-catenin and PRC2 complexes forms double-negative regulation loops with its negative regulators in colorectal cancer. Wei Wang, State Key Laboratory of Cancer Biology, Department of Immunology, Fourth Military Medical University, Xi'an, Shaanxi, China.

- B33 MYSM1 inhibits human colorectal cancer tumorigenesis by facilitating the expression of the miR-200 family and blocking Pl3K/AKT signaling. Wei Wang, State Key Laboratory of Cancer Biology, Department of Immunology, Fourth Military Medical University, Xi'an, Shaanxi, PR China.
- **Epigenetic characteristics of ovarian cancer stem cells.** Yinu Wang, Department of Obstetrics and Gynecology, Feinberg School of Medicine, Northwestern University, Chicago, IL.
- B35, PR12 Inhibition of histone methyltransferases EHMT1 and EHMT2 reduces PARP inhibitor resistance in high grade serous ovarian cancer. Zachary Watson, University of Colorado, Aurora, CO.