



CASE
COMPREHENSIVE
CANCER CENTER



American Association for Cancer Research (AACR)
[Annual Meeting](#)

April 16-20, 2016

(Case CCC Members in **BOLD**)

LECTURES/PRESENTATIONS

Neal J. Meropol

Speaker, [Barriers to clinical trial enrollment and how to overcome them](#)

Clinical Trials Design Methods Workshop, Part 1: New Frontiers for the Design and Conduct of Efficient Cancer Clinical Trials

Saturday, Apr 16, 2016, 9:30 AM - 9:50 AM

Mikkael Sekeres

Invited speaker, [A Conversation with FDA Oncologic Drugs Advisory Committee \(ODAC\) Chairs](#)

Regulatory Science and Policy Session

Monday, Apr 18, 2016, 10:30 AM - 12:30 PM

MINISYMPOSIUMS

[865: Isolation of WDR77-mediated interaction between androgen receptor and p53 uncovers novel treatment strategy for prostate cancer](#)

Minisymposium: Molecular Pharmacology of Hormone-dependent Malignancies

Sunday, April 17, 2016, 4:15 pm - 6:15 pm

Sangeeta Kumari¹, Simon Schlanger¹, Dan Wang², Song Liu², **Hannelore Heemers¹**.

¹Cleveland Clinic, Cleveland, OH; ²Roswell Park Cancer Institute, Buffalo, NY

[2667: Platelet microparticles infiltrating solid tumors transfer miRNAs and modulate tumor angiogenesis and growth](#)

Minisymposium: LncRNAs, MicroRNAs, and Non-coding RNAs in Cancer

Monday, Apr 18, 2016, 4:20 PM - 4:35 PM

James V. Michael¹, Jeremy G.T. Wurtzel¹, Guang Fen Mao¹, A. Koneti Rao¹, Nicholas E. Hoffman¹, Sudarsan Rajan¹, Muniswamy Madesh¹, Fabian Jana², **Marvin Nieman**³, Jesse W. Rowley⁴, Andrew S. Weyrich⁴, Lawrence E. Goldfinger¹.

¹Temple University School of Medicine, Philadelphia, PA; ²University of Chile, Santiago, Chile; ³Case Western Reserve University, Cleveland, OH; ⁴University of Utah, Salt Lake City, UT

[4370: Genome-wide CRISPR-Cas9 screens reveal loss of redundancy between PKMYT1 and WEE1 in patient-derived glioblastoma stem-like cells](#)

Minisymposium: Genomic Alterations and Their Functional Consequences

Tuesday, Apr 19, 2016, 4:05 PM - 4:20 PM

Chad Toledo¹, Ding Yu¹, Pia Hoellerbauer¹, Ryan Davis¹, Ryan Basom¹, Emily Girard¹, Philip Corrin¹, Hamid Bolouri¹, Jerry Davison¹, Qing Zhang¹, Do-Hyun Nam², **Jeongwu Lee**³, Steven Pollard⁴, Jeffery Delrow¹, Bruce Clurman¹, James Olson¹, Patrick Paddison¹.

¹Fred Hutchinson Cancer Research Center, Seattle, WA; ²Institute for Refractory Cancer Research, Samsung Medical Center, Seoul, Korea, Republic of; ³Lerner Research Institute, Cleveland Clinic, Cleveland, OH; ⁴Edinburgh CRUK Cancer Research Centre and MRC Centre for Regenerative Medicine, The University of Edinburgh, Edinburgh, United Kingdom

POSTER SESSIONS

[41: DCA bind to EGFR/EGFRvIII/PDK1 and affect the proliferation and growth in TMZ resistant glioblastoma model](#)

Poster Session: Altered Glucose Metabolism in Cancer

Sunday, Apr 17, 2016, 1:00 PM - 5:00 PM

Kiran Kumar Velpula¹, Kamlesh Sahu², Jack Tuszynski², Maheedhara R. Guda¹, Swapna Asuthkar¹, Sarah E. Martin¹, **Justin D. Lathia**³, Andrew J. Tsung¹.

¹University of Illinois College of Med. at Peoria, Peoria, IL; ²University of Alberta, Edmonton, AB, Canada; ³Cleveland Clinic, Cleveland, OH

[129: Integrated genomic analysis of survival outliers in glioblastoma](#)

Poster Session: Genomic Profiling of Cancers

Sunday, Apr 17, 2016, 1:00 PM - 5:00 PM

Sen Peng¹, Harshil Dhurv¹, Brock Armstrong¹, Jeffrey Kiefer², Bodour Salhia², Julianna Ross¹, Christophe Legendre², Selene Virk³, **Andrew E. Sloan**³, Quinn T. Ostrom³, **Jill Barnholtz-Sloan**³, Nhan L. Tran¹, Michael E. Berens¹.

¹Cancer and Cell Biology Division, The Translational Genomics Research Institute (TGen), Phoenix, AZ; ²Integrated Cancer Genomics Division, The Translational Genomics Research Institute (TGen), Phoenix, AZ; ³Case Western University, Cleveland, OH

[169: Drug resistance gene expression pathways in primary refractory breast cancer](#)

Poster Session: Intratumor Heterogeneity and Resistance

Sunday, April 17, 2016, 1:00 pm - 5:00 pm

Charlene Kan, Shikha Parsai, **Stefanie Avril**, **Janice Lyons**, **Hannah Gilmore**, **Junran Zhang**, Lyndsay Harris.

University Hospitals Seidman Cancer Center, Cleveland, OH

[304: HER2 basal tumors have frequent mutation of HER3 and are more resistant to HER2-targeted therapy](#)

Poster Session: Mechanisms of Drug Resistance 1

Sunday, April 17, 2016, 1:00 pm - 5:00 pm

Vinay Varadan¹, Salendra Singh¹, **Hannah Gilmore**¹, Shikha Parsai¹, George Somlo², Maysa Abu-Khalaf³, William Sikov⁴, Lyndsay N. Harris¹.

¹Case Western Reserve University, Cleveland, OH; ²City of Hope, Duarte, CA; ³Yale University, New Haven, CT; ⁴Brown University, Providence, RI

[780: Multi-omic profiling of gliomas reveals distinct DNA methylation changes at tumor recurrence](#)

Poster Session: Systems Biology

Sunday, April 17, 2016, 1:00 pm - 5:00 pm

Lindsay C. Stetson¹, Camila Ferreira de Souza², Tathiane Maistro Malta², Thais Sarraf Sabedot², Quinn Ostrom¹, Peter Liao¹, Daniela Pretti da Cunha Tirapelli², Luciano Neder², Carlos Gilberto Carlotti, Jr.², Rehan Akbani³, Sofie Salama⁴, Laila Poisson⁵, Daniel Brat⁶, The Cancer Genome Atlas Network, Houtan Noushmehr², **Jill Barnholtz-Sloan**¹.

¹Case Western Reserve University School of Medicine, Cleveland, OH; ²Ribeirão Preto Medical School, University of Sao Paulo, Brazil; ³University of Texas, MD Anderson Cancer Center, TX; ⁴University of California, Santa Cruz, CA; ⁵Henry Ford Hospital, MI; ⁶Winship Cancer Institute of Emory University, GA

[1053: Redirecting abiraterone metabolism to biochemically fine tune prostate cancer therapy](#)

Poster Session: Metabolic Reprogramming in Cancer

Monday, April 18, 2016, 8:00 am - 12:00 noon

Zhenfei Li, Mohammad Alyamani, **Nima Sharifi**.

Cleveland Clinic Lerner Research Institute, Cleveland, OH

[1119: Tumor suppressing dual-action miRNA: Targeting Warburg effect and androgen receptor function in CRPC](#)

Poster Session: MicroRNAs as Oncogenes and Tumor Suppressors

Monday, Apr 18, 2016, 8:00 AM -12:00 PM

Jey Sabith Ebron¹, Jagjit Singh¹, Kavleen Sikand¹, Eswar Shankar², **Sanjay Gupta**², **Girish C. Shukla**¹.

¹Cleveland State University, Cleveland, OH; ²Case Western University, Cleveland, OH

[1154: Elevated nuclear GSK3 \$\beta\$ promotes more aggressive disease in AML](#)

Poster Session: Oncogenes and Tumor Suppressor Genes and Pathways

Monday, April 18, 2016, 8:00 am - 12:00 noon

James J. Ignatz-Hoover, Nathan Mackowski, **David N. Wald**.

Case Western Reserve University, Cleveland, OH

[1294: Sensitization of malignant melanomas to TRAIL-induced apoptosis by quercetin](#)

Poster Session: Regulation of Anticancer Drug Effects

Monday, Apr 18, 2016, 8:00 AM -12:00 PM

Katherine Turner¹, **Daniel Lindner**², Michael Kalafatis¹.

¹Cleveland State University, Cleveland, OH; ²Taussig Cancer Institute, Cleveland, OH

[1295: Evaluation of the efficacy of TRAIL plus quercetin as a potential breast carcinoma therapeutic](#)

Poster Session: Regulation of Anticancer Drug Effects

Monday, Apr 18, 2016, 8:00 AM -12:00 PM

Jasmine M. Manouchehri¹, Michael Kalafatis¹, **Daniel Lindner**².

¹Cleveland State University, Cleveland, OH; ²The Cleveland Clinic, Cleveland, OH

[1502: Three intrinsic subtypes of prostate cancer with distinct pathway activation profiles differ in prognosis and treatment response](#)

Poster Session: Applications of Bioinformatic Tools to Analyze Cancer Data

Monday, Apr 18, 2016, 8:00 AM -12:00 PM

Sungyong You¹, Beatrice Knudsen¹, Nicholas Erho², Mohammed Alshalalfa², Mandeep Takhar², Hussam Al-deen Ashab², Elai Davicioni², Robert Jeffrey Karnes³, **Eric A. Klein**⁴, Robert B. Den⁵, Ashley E. Ross⁶, Edward M. Schaeffer⁶, Isla P. Garraway⁷, Jayoung Kim¹, Michael R. Freeman¹.

¹Cedars-Sinai Medical Center, Los Angeles, CA; ²GenomeDx Biosciences Inc., Vancouver, BC, Canada; ³Mayo Clinic, Rochester, MN; ⁴Cleveland Clinic, Cleveland, OH; ⁵Thomas Jefferson University, Philadelphia, PA; ⁶Johns Hopkins Hospital, Baltimore, MD; ⁷UCLA, Los Angeles, CA

[1626: Krüppel-like factor 8 activates the transcription of C-X-C cytokine receptor type 4 to promote breast cancer cell invasion, transendothelial migration and metastasis](#)

Poster Session: Metastasis-Promoting and -Suppressing Genes

Monday, Apr 18, 2016, 8:00 AM -12:00 PM

Debarati Mukherjee¹, Heng Lu¹, Lin Yu¹, Satadru K. Lahiri¹, Tianshu Li², Jihe Zhao¹.

¹University of Central Florida, Orlando, FL; ²Cleveland Clinic, Cleveland, OH

[1659: Radioprotection of IDH1-mutated solid tumor, but not leukemia cells by the IDH1-mutant inhibitor AGI5198](#)

Poster Session: Radiation Science

Monday, Apr 18, 2016, 8:00 AM -12:00 PM

Remco J. Molenaar¹, Johanna W. Wilmink¹, **Jaroslav P. Maciejewski**², William P. Leenders³, Fonnet E. Bleeker¹, Cornelis J. Van Noorden¹.

¹Academic Medical Center, Amsterdam, Netherlands; ²Cleveland Clinic, Cleveland, OH; ³Radboud UMC, Nijmegen, Netherlands

[1754: Body powder use and ovarian cancer: the African American Cancer Epidemiology Study](#)

Poster Session: Diet, Tobacco, Smoking, and Other Lifestyle Factors in Cancer Epidemiology

Monday, Apr 18, 2016, 8:00 AM -12:00 PM

Lauren C. Peres¹, Sarah E. Abbott¹, Anthony J. Alberg², Elisa V. Bandera³, **Jill Barnholtz-Sloan**⁴, Melissa Bondy⁵, Michele L. Cote⁶, Ellen Funkhouser⁷, Edward S. Peters⁸, Ann G. Schwartz⁶, Paul D. Terry⁹, Sydnee Crankshaw¹⁰, Fabian Camacho¹, Frances Wang¹⁰, Patricia G. Moorman¹⁰, Joellen M. Schildkraut¹.

¹University of Virginia, Charlottesville, VA; ²Medical University of South Carolina, Charleston, SC; ³Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; ⁴Case Western Reserve University School of Medicine, Cleveland, OH; ⁵Baylor College of Medicine, Houston, TX; ⁶Wayne State University School of Medicine, Detroit, MI; ⁷University of Alabama at Birmingham, Birmingham, AL; ⁸Louisiana State University Health Sciences Center School of Public Health, New Orleans, LA; ⁹University of Tennessee Medical Center - Knoxville, Knoxville, TN; ¹⁰Duke University Medical Center, Durham, NC

[LB-151: Positively selected enhancer elements endow tumor cells with metastatic competence](#)

Late Breaking Poster Session: Late-Breaking Research: Molecular and Cellular Biology 2

Monday, Apr 18, 2016, 1:00 PM - 5:00 PM

James J. Morrow¹, Tyler E. Miller¹, Alina Saiakhova¹, Michael M. Lizardo², Cynthia F. Bartels¹, Ian Bayles¹, Stevephen Hung¹, Arnulfo Mendoza², Jay T. Myers¹, Frederick Allen¹, **Analisa DiFeo**¹, **Brian P. Rubin**³, **Alex Y. Huang**¹, Paul S. Meltzer², Lee J. Helman², Chand Khanna², **Peter C. Scacheri**¹.

¹Case Western Reserve University School of Medicine, Cleveland, OH; ²NCI, NIH, Bethesda, MD; ³Cleveland Clinic, Lerner Research Institute and Taussig Cancer Center, Cleveland, OH

[LB-216: NCI 9455: Phase II study of trametinib followed by trametinib plus AKT inhibitor, GSK2141795 in patients with advanced triple negative breast cancer](#)

Late Breaking Poster Session: Late-Breaking Research: Experimental and Molecular Therapeutics 2

Monday, Apr 18, 2016, 1:00 PM - 5:00 PM

Bhuvaneswari Ramaswamy¹, Ewa Mrozek¹, Maryam Lustberg¹, Robert Wesolowski¹, Rachel Layman¹, Mahmoud Abdel-Rasoul¹, Cynthia Timmers¹, Robyn Patrick¹, Jennifer Sexton¹, Erin Macrae², Charles Shapiro³, **Thomas Budd**⁴, Lyndsay Harris⁵, Claudine Isaacs⁶, Roohi Ismail-Khan⁷, Claire Dees⁸, Andrew Poklepovic⁹, Micheal Grever¹, Helen Chen¹⁰, Miguel Villalona¹¹, William Carson¹.

¹Ohio State University Comp. Cancer Center, Columbus, OH; ²Columbus Oncology Hematology Associates, Columbus, OH; ³Mount Sinai's Tisch Cancer Institute, New York, NY; ⁴Cleveland Clinic, Cleveland, OH; ⁵University Hospitals, Cleveland, OH; ⁶Georgetown Lombardi Comprehensive Cancer Center, Washington, DC; ⁷Moffitt Cancer Center, Tampa, FL; ⁸University of North Carolina Lineberger Comprehensive Cancer Center, Chapel Hill, NC; ⁹Virginia Commonwealth University, Richmond, VA; ¹⁰National Cancer Institute, Bethesda, MD; ¹¹Miami Cancer Institute, Miami, FL

[1894: Understanding the role of microRNA-206 in breast cancer](#)

Poster Session: MicroRNAs in Metastasis and Cancer

Monday, April 18, 2016, 1:00 pm - 5:00 pm

Valery Adorno-Cruz¹, **Huiping Liu**².

¹Case Western Reserve University, Cleveland Heights, OH; ²Case Western Reserve University, Cleveland, OH

[1909: miR-30c blocks tumor cell homotypic aggregation and promotes anoikis to prevent breast cancer metastasis](#)

Poster Session: MicroRNAs in Metastasis and Cancer

Monday, April 18, 2016, 1:00 pm - 5:00 pm

Xia Liu, Beijie Yu, Wenjing Chen, **Huiping Liu**.

Case Western Reserve Univ., Cleveland, OH

[1937: Dysregulation of lincRNAs is a major driver of aberrant epigenomes during tumorigenesis](#)

Poster Session: Non-coding RNAs and Mechanisms in Cancer

Monday, April 18, 2016, 1:00 pm - 5:00 pm

Callie R. Merry, Megan E. Forrest, **Sanford Markowitz**, **Ahmad M. Khalil**.

Case Western Reserve University, Cleveland, OH

[2023: SOX4 is essential for PTEN-mediated prostate tumorigenesis in vivo](#)

Poster Session: Transcriptional Regulation and Gene Expression

Monday, Apr 18, 2016, 1:00 PM - 5:00 PM

Birdal Bilir¹, Adeboye O. Osunkoya¹, W. Guy Wiles, IV¹, Soma Sannigrahi¹, Veronique Lefebvre², Daniel Metzger³, Demetri D. Spyropoulos⁴, W. David Martin¹, Carlos S. Moreno¹.

¹Emory University, Atlanta, GA; ²Cleveland Clinic, Cleveland, OH; ³Université de Strasbourg, Illkirch, France; ⁴Medical University of South Carolina, Charleston, SC

[2372: The genetic evolution of melanoma](#)

Poster Session: Clonal Heterogeneity and Evolution

Monday, Apr 18, 2016, 1:00 PM - 5:00 PM

Alan H. Shain¹, Richard Yu¹, Iwei Yeh¹, Jamal Benhamida¹, Ivanka Kovalyshyn², Aravindhhan Sriharan³, Eric Talevich¹, Reinhard Dummer⁴, Jeffrey North¹, Laura Pincus¹, Beth Ruben¹, William Rickaby⁵, Corrado D'Arrigo⁶, Alistair Robson⁵, Robert Judson¹, Nancy Joseph¹, Boris Bastian¹.

¹UCSF, San Francisco, CA; ²Cleveland Clinic, Cleveland, OH; ³Orlando Health, Orlando, FL; ⁴University Hospital of Zurich, Zurich, Switzerland; ⁵St. John's Institute of Dermatology, London, United Kingdom; ⁶Dorset County Hospital, Dorchester, United Kingdom

[2525: Sema3C promotes glioma stem cell survival and radioresistance](#)

Poster Session: Stemness Properties of Neuronal and Pediatric Tumors and New Approaches

Monday, April 18, 2016, 1:00 pm - 5:00 pm

Jianghong Man, Jocelyn Shoemake, Qiulian Wu, **Jennifer Yu**.
Cleveland Clinic, Cleveland, OH

[2570: Identification of genetic polymorphisms associated with myelodysplastic syndromes by genome-wide association study](#)

Poster Session: Genetic Contributions to Cancer Epidemiology: Familial Cancers and GWAS

Monday, Apr 18, 2016, 1:00 PM - 5:00 PM

Kathy McGraw¹, Chia-Ho Cheng¹, Ann Chen¹, Giulio Genovese², Thomas Cluzeau³, Hui-Yi Lin⁴, Bartlomiej Przychodzen⁵, Mar Mallo⁶, Leonor Arenillas⁷, Azim Mohamedali⁸, Lionel Ades⁹, Ashley Basiorka¹⁰, Brittany Irvine¹, David Sallman¹, Eric Padron¹, Lubomir Sokol¹, Andrea Pellagatti¹¹, Chimene Brest¹², Sophie Raynaud³, Bjorn Nilsson¹³, Jacqueline Boulwood¹¹, Benjamin Ebert¹⁴, Francesc Sole⁶, Pierre Fenaux⁹, Ghulam Mufti⁸, **Jaroslav Maciejewski**⁵, Peter Kanetsky¹, Alan List¹.

¹H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL; ²Broad Institute of the Massachusetts Institute of Technology and Harvard Medical School, Boston, MA; ³French Group of Myelodysplasia and CHU of Nice, Nice, France; ⁴Louisiana State University, Baton Rouge, LA; ⁵Cleveland Clinic, Taussig Cancer Institute, Cleveland, OH; ⁶Institut de Recerca Contra la Leucemia Josep Carreras, Barcelona, Spain; ⁷Laboratori de Citologia Hematologica, Hospital del Mar, Barcelona, Spain; ⁸Kings College London, London, United Kingdom; ⁹French Group of

Myelodysplasia and Hospital Saint Louis, Paris, France;¹⁰H. Lee Moffitt Cancer Center and Research Institute and University of South Florida, Tampa, FL; ¹¹Leukaemia & Lymphoma Research Molecular Haematology Unit, University of Oxford, Oxford, United Kingdom; ¹²CHU of Nice, Nice, France; ¹³Lund University, Lund, Sweden; ¹⁴Harvard Medical School and Brigham and Women's Hospital, Boston, MA

[2587: Comprehensive colorectal cancer risk prediction to inform personalized screening and intervention](#)

Poster Session: Risk Prediction, Screening, and Comparative Effectiveness Research
Monday, Apr 18, 2016, 1:00 PM - 5:00 PM

Jihyoun Jeon¹, Sonja I. Berndt², Hermann Brenner³, Peter T. Campbell⁴, Andrew T. Chan⁵, Jenny Chang-Claude³, Mengmeng Du⁶, Graham Giles⁷, Jian Gong⁸, Stephen B. Gruber⁹, Tabitha A. Harrison⁸, Michael Hoffmeister³, Loic LeMarchand¹⁰, **Li Li**¹¹, John D. Potter⁸, Gad Rennert¹², Robert E. Schoen¹³, Martha L. Slattery¹⁴, Emily White⁸, Michael O. Woods¹⁵, Ulrike Peters⁸, Li Hsu⁸.

¹University of Michigan, Ann Arbor, MI; ²National Cancer Institute, National Institutes of Health, Bethesda, MD; ³German Cancer Research Center (DKFZ), Germany; ⁴American Cancer Society, Atlanta, GA; ⁵Massachusetts General Hospital and Harvard Medical School, Boston, MA; ⁶Memorial Sloan Kettering, New York, NY; ⁷Cancer Council Victoria, Australia; ⁸Fred Hutchinson Cancer Research Center, Seattle, WA; ⁹Keck School of Medicine, University of Southern California, Los Angeles, CA; ¹⁰University of Hawaii Cancer Center, Honolulu, HI; ¹¹Case Western Reserve University, Cleveland, OH; ¹²Carmel Medical Center, Israel; ¹³University of Pittsburgh Medical Center, Pittsburgh, PA; ¹⁴University of Utah Health Sciences Center, Salt Lake City, UT; ¹⁵Memorial University of Newfoundland, NL, Canada

[2609: Epigenetic reactivation of TIMP-3 in human prostate cancer cells by green tea polyphenols](#)

Poster Session: Targets, Markers, and Agents in Cancer Prevention
Monday, April 18, 2016, 1:00 pm - 5:00 pm

Gauri Deb, Vijay S. Thakur, Eswar Shankar, **Sanjay Gupta**.
Case Western Reserve University, Cleveland, OH

[2707: Quantitative analysis of the role of androgen receptor in radiation treatment for prostate cancer](#)

Poster Session: Bioinformatic Tools for Analysis and Mathematical Modeling of Clinical Samples

Tuesday, April 19, 2016, 8:00 am - 12:00 noon

Mengdi Qian¹, **Alexandru Almasan**², Evren Gurkan-Cavusoglu¹.

¹Case Western Reserve University, Cleveland, OH; ²Cleveland Clinic, Cleveland, OH

[2714: Inhibition of human telomerase by new purine analogs](#)

Poster Session: Cell Cycle Control and Checkpoints

Tuesday, April 19, 2016, 8:00 am - 12:00 noon

Wilnelly M. Hernandez-Sanchez¹, Diane Baus¹, **Anthony J. Berdis**², **Derek J. Taylor**¹.

¹Case Western Reserve University, Cleveland, OH; ²Cleveland State University, Cleveland, OH

[2780: Genome-wide methylation analysis reveals methylator subtypes of Barrett's esophagus and esophageal adenocarcinoma](#)

Medicine, University of Washington School of Medicine, Seattle, WA

Tuesday, Apr 19, 2016, 8:00 AM -12:00 PM

Ming Yu¹, Sean Maden¹, Andrew Kaz², Tai Heinzerling¹, Rachele O'Leary¹, Matthew Stachler³, Adam Bass⁴, **Amitabh Chak**⁵, **Joseph Willis**⁶, **Sanford Markowitz**⁷, William Grady⁸.

¹Clinical Research Division, Fred Hutchinson Cancer Research Center, Seattle, WA; ²Clinical Research Division, Fred Hutchinson Cancer Research Center; Department of Medicine, University of Washington School of Medicine; Gastroenterology Service, VA Puget Sound Health Care System, Seattle, WA; ³Department of Pathology, Brigham and Women's Hospital and Harvard Medical School; Department of Medical Oncology, Dana-Farber Cancer Institute, Boston, MA; ⁴Department of Medical Oncology, Dana-Farber Cancer Institute, Boston, MA; ⁵Division of Gastroenterology, Division of Oncology, University Hospitals Case Medical Center, Cleveland, OH; ⁶Department of Pathology, University Hospitals Case Medical Center, Cleveland, OH; ⁷Department of Medicine, University Hospitals Case Medical Center; Case Comprehensive Cancer Center, Case Western Reserve University and Case Medical Center, Cleveland, OH; ⁸Clinical Research Division, Fred Hutchinson Cancer Research Center; Department of Medicine, University of Washington School of Medicine, Seattle, WA

[2872: Cytoplasmic localization of PU.1 with mutated NPM1 causes myeloid differentiation arrest](#)

Poster Session: Transcriptional Regulation and Gene Expression in Human Malignancies

Tuesday, April 19, 2016, 8:00 am - 12:00 noon

Xiaorong Gu¹, Reda Mahfouz¹, Ji Zhang², Francis Enane¹, Zhenbo Hu³, **Tomas Radivoyevitch**¹, **David Wald**⁴, Maria Paola Martelli⁵, Brunangelo Falini⁵, Yosef Landesman⁶, **Jaroslav Maciejewski**¹, **Yogen Sauntharajah**¹.

¹Cleveland Clinic, Cleveland, OH; ²Department of Ophthalmology, The Second Affiliated Hospital of Soochow University, Suzhou, JiangSu, China; ³Affiliated Hospital of Weifang Medical University, Weifang, China; ⁴Case Western Reserve University, Cleveland, OH; ⁵Institute of Hematology, University of Perugia, Perugia, Italy; ⁶Karyopharm Therapeutics, Newton, MA

[2938: Role of CD73 in promoting metastasis and resistance to 5-fluorouracil of colorectal cancer](#)

Poster Session: Mechanisms of Drug Resistance 3

Tuesday, Apr 19, 2016, 8:00 AM -12:00 PM

Xuan-hui Liu¹, Xian-rui Wu¹, Yu-feng Chen¹, Feng-wei Wang², Xiao-bin Zheng¹, Dan Xie², Bo Shen³, Jian-ping Wang¹, Xiao-jian Wu¹, Ping Lan¹.

¹The Sixth Affiliated Hospital, Sun Yat-sen University, Guangzhou, China; ²Sun Yat-sen University Cancer Center, Guangzhou, China; ³Cleveland Clinic, Cleveland, OH

[3036: Targeting FACT complex with CBL0137 to overcome acquired resistance to EGFR-TKI in lung adenocarcinoma](#)

Poster Session: Novel Targets and Pathways

Tuesday, April 19, 2016, 8:00 am - 12:00 noon

Neelesh Sharma¹, Josephine Dermawan², Andrei Purmal³, **Daniel Lindner**⁴, Gary Wildey¹, **Afshin Dowlati**¹, Andrei Gudkov⁵, Katerina Gurova⁵, **George R. Stark**².

¹University Hospitals, Case Western Reserve University, Case Comprehensive Cancer Center, Cleveland, OH; ²Lerner Research Institute, Cleveland Clinic, OH; ³Cleveland Biolabs, Buffalo, NY; ⁴Cleveland Clinic, Cleveland, OH; ⁵Roswell Park Cancer Institute, Buffalo, NY

[3126: CEMIP, a secreted protein highly induced in colon cancer and associated with poor patient survival](#)

Poster Session: Biomarkers for Gastrointestinal, Hematologic, and Uncommon Cancers

Tuesday, April 19, 2016, 8:00 am - 12:00 noon

Stephen P. Fink¹, Lois Myeroff¹, Revital Kariv¹, Petra Platzer¹, Baozhong Xin¹, Debra Mikkola¹, Earl Lawrence¹, Nathan Morris¹, Arman Nosrati¹, James Willson², **Joseph Willis**¹, **Martina Veigl**¹, **Jill Barnholtz-Sloan**¹, **Zhenghe Wang**¹, **Sanford Markowitz**¹.

¹Case Western Reserve Univ., Cleveland, OH; ²University of Texas Southwestern Medical Center, Dallas, TX

[3276: The tissue and cellular destination of therapeutic IgGs in glioblastoma](#)

Poster Session: Antiangiogenic Therapy: Inhibitors and Resistance

Tuesday, April 19, 2016, 8:00 am - 12:00 noon

Gaëlle Muller-Greven¹, **Cathleen Carlin**², Steven Toms³, **Manmeet Ahluwalia**¹, Markus Bredel⁴, **Justin Lathia**¹, **Jeremy Rich**¹, Petra Hamerlik⁵, **Candece L. Gladson**¹.

¹Cleveland Clinic, Cleveland, OH; ²Case Western Reserve University, Cleveland, OH; ³Geisinger Medical Center, Danville, PA; ⁴University of Alabama, Birmingham, AL; ⁵Danish Cancer Society Research Center, Copenhagen, Denmark

[3337: Targeting acute myeloid leukemia via anti-IL1RAP antibodies](#)

Poster Session: Stemness Properties of Leukemias and Carcinomas

Tuesday, Apr 19, 2016, 8:00 AM -12:00 PM

Ping Jiang¹, Bob Y. Liu¹, Jen Huang¹, Jennifer Lu¹, Sharmili Roy¹, Madhavi Mishra¹, Xiaoxian Zhao², Jeffrey Lin², **Eric D. Hsi**², Jagath R. Junutula¹.

¹Cellerant Therapeutics, San Carlos, CA; ²Robert J. Tomsich Pathology & Laboratory Medicine Institute, Cleveland Clinic, Cleveland, OH

[3380: Direct contact with perivascular tumor cells enhances integrin \$\alpha v \beta 3\$ signaling and migration of endothelial cells](#)

Poster Session: Tumor Angiogenesis: Host Interactions and the Tumor Microenvironment

Tuesday, April 19, 2016, 8:00 am - 12:00 noon

Monica Burgett¹, **Justin Lathia**¹, Patrick Roth², Amy Nowacki¹, Elena Pugacheva³, Ping Huang¹, Amit Vasanth⁴, Li Meizhang¹, **Tatiana Byzova**¹, Tom Mikkelsen⁵, **Shideng Bao**¹, **Jeremy Rich**¹, Michael Weller², **Candece Gladson**¹.

¹The Cleveland Clinic Lerner Research Institute, Cleveland, OH; ²University Hospital, Zurich, Switzerland; ³West Virginia University, Morgantown, WV; ⁴Image IQ, Inc., Cleveland, OH; ⁵Henry Ford Hospital, Detroit, MI

[CT110: Phase II multicenter study of gene-mediated cytotoxic immunotherapy as an adjuvant to surgical resection for newly diagnosed malignant glioma: lessons learned from pseudo-progression and a nine-year survivor](#)

Poster Session: Phase II, III, and Special Population Clinical Trials

Tuesday, Apr 19, 2016, 1:00 PM - 5:00 PM

David S. Baskin¹, Laura K. Aguilar², Lee A. Wheeler³, Andrea G. Manzanera², Susan D. Bell⁴, Robert Cavaliere⁴, John M. McGregor⁴, **Simon S. Lo**⁵, John C. Grecula⁴, Herbert B. Newton⁴, Behnam Badie⁶, Bin S. Teh¹, Edward Brian Butler¹, Todd W. Trask¹, Jana Portnow⁶, Pamela Z. New¹, Estuardo Aguilar-Cordova², E. Antonio Chiocca³.

¹Houston Methodist Hospital, Houston, TX; ²Advantagene, Inc., Auburndale, MA; ³Brigham and Women's Hospital/Harvard Medical School, Boston, MA; ⁴Ohio State University, Columbus, OH; ⁵University Hospitals Seidman Cancer Center/ Case Western Reserve University, Cleveland, OH; ⁶City of Hope, Duarte, CA

[CT111: Ablation techniques adapted for low- and middle-income countries](#)

Poster Session: Phase II, III, and Special Population Clinical Trials

Tuesday, April 19, 2016, 1:00 pm - 5:00 pm

Miriam Cremer¹, Juan Felix², Luis Taxa³, Mauricio Maza⁴, Philip E. Castle⁵, Manuel Alvarez³, Jose Jeronimo⁶, Julia Gage⁷.

¹Cleveland Clinic Lerner School of Medicine, Cleveland, OH; ²University of Southern California, Los Angeles, CA; ³Instituto Nacional de Enfermedades Neoplásicas, Lima, Peru; ⁴Basic Health International, San Salvador, El Salvador; ⁵Albert Einstein College of Medicine, Bronx, NY; ⁶PATH, Seattle, WA; ⁷National Cancer Institute Division of Cancer Epidemiology & Genetic, Bethesda, MD

[3407: Gene expression subtypes of high grade serous ovarian cancer in African American women](#)

Poster Session: Epidemiology of Cancer Prognosis and Survival

Tuesday, Apr 19, 2016, 8:00 AM -12:00 PM

Jennifer A. Doherty¹, Casey S. Greene², James E. Rudd³, Laura J. Tafe³, Anthony J. Alberg⁴, Elisa V. Bandera⁵, **Jill Barnholtz-Sloan**⁶, Melissa Bondy⁷, Michele L. Cote⁸, Ellen Funkhouser⁹, Patricia G. Moorman¹⁰, Edward S. Peters¹¹, Ann G. Schwartz⁸, Paul Terry¹², Rex Bentley¹³, Andrew Berchuck¹⁴, Jeffrey R. Marks¹⁵, Joellen M. Schildkraut¹⁶.

¹Department of Epidemiology, The Geisel School of Medicine at Dartmouth, Lebanon, NH; ²Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA; ³The Geisel School of Medicine at Dartmouth, Lebanon, NH; ⁴Hollings Cancer Center and Department of Public Health Sciences, Medical University of South Carolina, Charleston, SC; ⁵Department of Population Science, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ; ⁶Case Comprehensive Cancer Center, Case Western Reserve University School of Medicine, Cleveland, OH; ⁷Cancer Prevention and Population Sciences Program, Baylor College of Medicine, Houston, TX; ⁸Department of Oncology and the Karmanos Cancer Institute Population Studies and Disparities Research Program, Detroit, MI; ⁹Division of Preventive Medicine, University of Alabama at Birmingham, Birmingham, AL; ¹⁰Duke Cancer Institute, Duke University Medical Center, Durham, NC; ¹¹Epidemiology Program, Louisiana State University Health Sciences Center School of Public Health, New Orleans, LA; ¹²Department of Medicine, University of Tennessee Medical Center-Knoxville, Knoxville, TN; ¹³Department of Pathology, Duke University, Durham, NC; ¹⁴Department of Obstetrics and Gynecology, Duke University, Durham, NC; ¹⁵Department of Surgery, Duke University, Durham, NC; ¹⁶Department of Public Health Sciences, University of Virginia, Charlottesville, VA

[3413: Supplement use and chemotherapy-induced peripheral neuropathy in breast cancer patients treated on SWOG study S0221](#)

Poster Session: Epidemiology of Cancer Prognosis and Survival

Tuesday, Apr 19, 2016, 8:00 AM -12:00 PM

Gary R. Zirpoli¹, Susan E. McCann¹, Lara E. Sucheston-Campbell¹, Dawn L. Hershman², Gregory Ciupak¹, Warren Davis¹, Joseph M. Unger³, **Halle C.F. Moore**⁴, James A. Stewart⁵, Claudine Isaacs⁶, Timothy J. Hobday⁷, Muhammad Salim⁸, Robert B. Livingston⁹, Gabriel N. Hortobagyi¹⁰, Julie R. Gralow¹¹, Daniel F. Hayes¹², **G. Thomas Budd**⁴, Kathy S. Albain¹³, Christine B. Ambrosone¹.

¹Roswell Park Cancer Institute, Buffalo, NY; ²Columbia University, New York, NY; ³SWOG Statistical Center, Seattle, WA; ⁴Cleveland Clinic, Cleveland, OH; ⁵Baystate Medical Center, Springfield, MA; ⁶Lombardi Comprehensive Cancer Center, Washington, DC; ⁷Mayo Clinic, Rochester, MN; ⁸Allan Blair Cancer Centre, Regina, SK, Canada; ⁹Arizona Cancer Center, Tucson, AZ; ¹⁰MD Anderson Cancer Center, Houston, TX; ¹¹Seattle Cancer Care Alliance, Seattle, WA; ¹²University of Michigan, Ann Arbor, MI; ¹³Loyola University Chicago Cardinal Bernardin Cancer Center, Maywood, IL

[3446: Aspirin, non-steroidal anti-inflammatory drugs \(NSAIDs\) and the risk of glioma: Results from the Glioma International Case Control Study](#)

Poster Session: Exogenous Exposures and Cancer Risk

Tuesday, Apr 19, 2016, 8:00 AM -12:00 PM

Rose K. Lai¹, Renke Zhou², E. Susan Amirian², Christoffer Johansen³, Michael E. Scheurer², Georgina N. Armstrong², Ching C. Lau², Elizabeth B. Claus⁴, **Jill S. Barnholtz-Sloan**⁵, Dora Il'yasova⁶, Joellen Schildkraut⁷, Francis Ali-Osman⁷, Siegal Sadetzki⁸, Richard Houlston⁹, Robert B. Jenkins¹⁰, Daniel Lachance¹⁰, Sara H. Olson¹¹, Jonine L. Bernstein¹¹, Ryan T. Merrell¹², Margaret R. Wrensch¹³, Faith G. Davis¹⁴, Sanjay Shete¹⁵, Christopher I. Amos¹⁶, Beatrice S. Melin¹⁷, Melissa Bondy².

¹USC, CA; ²Baylor College of Medicine, Houston, TX; ³University of Copenhagen, Denmark; ⁴Yale University School of Medicine, CT; ⁵Case Western Reserve University, OH; ⁶Georgia State University, GA; ⁷Duke University, NC; ⁸Tel-Aviv University, Israel; ⁹Institute of Cancer Research, United Kingdom; ¹⁰Mayo Clinic, MN; ¹¹Memorial Sloan Kettering, NY; ¹²Northshore University Health System, IL; ¹³UCSF, CA; ¹⁴University of Alberta, AB, Canada; ¹⁵MD Anderson Cancer Center, Houston, TX; ¹⁶Dartmouth University, Houston, TX; ¹⁷Umea University, Sweden

[3480: Germline PARP4 mutations in patients with primary thyroid and breast cancers](#)

Poster Session: Clinical Endocrinology

Tuesday, Apr 19, 2016, 1:00 PM - 5:00 PM

Yuji Ikeda¹, Kazuma Kiyotani¹, Poh Yin Yew¹, Taigo Kato¹, Kenji Tamura¹, Kai Lee Yap¹, Jessica L. Mester², Sarah H. Nielsen¹, Grogan H. Raymon¹, **Charis Eng**³, Yusuke Nakamura¹.

¹University of Chicago, Chicago, IL; ²Cleveland Clinic, Chicago, OH; ³Cleveland Clinic, OH

[3507: Rhamnetin enhances anti-proliferative and apoptotic effects on prostate cancer cells](#)

Poster Session: Cell Death 1

Tuesday, April 19, 2016, 1:00 pm - 5:00 pm

Riddhi Patel, Rebecca Pakradooni, Christine Oak, Natarajan Bhaskaran, Sanjeev Shukla. Case Western Reserve University, Cleveland, OH

[3589: Nucleotide excision repair is elevated in stage IV commonly used breast cancer cell lines as compared to stage I breast tumor explants](#)

Poster Session: Genetic Instability in Cancer: Molecular Basis and Tools

Tuesday, Apr 19, 2016, 1:00 PM - 5:00 PM

Homood As Sobeai¹, Jennifer M. Johnson², Nancy Lalanne³, Omar Ibrahim¹, Stephen G. Grant¹, Sharon L. Wenger⁴, Jean J. Latimer¹.

¹Nova Southeastern University College of Pharmacy, Fort Lauderdale, FL; ²Thomas Jefferson University Hospital, Philadelphia, PA; ³Case Western Reserve University, Cleveland, OH; ⁴West Virginia University, Morgantown, WV

[3596: KLLN protects genomic stability by maintaining H3K9 trimethylation \(H3K9me3\) at the pericentric heterochromatin](#)

Poster Session: Genetic Instability in Cancer: Molecular Basis and Tools

Tuesday, April 19, 2016, 1:00 pm - 5:00 pm

Madhav Sankunny¹, Emily Nizialek², Farshad Niazi¹, **Charis Eng**¹.

¹Cleveland Clinic Foundation, Cleveland, OH; ²Case Western Reserve University, Cleveland, OH

[3857: Pharmacological reactivation of the tumor suppressor protein phosphatase 2A as a novel approach for the treatment of breast cancer](#)

Poster Session: Targeting Protein Kinases, Death Pathways, and the Tumor

Microenvironment

Tuesday, April 19, 2016, 1:00 pm - 5:00 pm

Caroline C. Farrington¹, Xiaoyan Wang², Mahnaz Janghorban², Juan Liang², **Analisa Difeo**¹, Rosalie Sears², **Goutham Narla**¹.

¹Case Western Reserve University, Cleveland, OH; ²Oregon Health and Sciences University, Portland, OR

[3865: Therapeutic activation of protein phosphatase 2A for the treatment of lung cancer](#)

Poster Session: Targeting Protein Kinases, Death Pathways, and the Tumor

Microenvironment

Tuesday, Apr 19, 2016, 1:00 PM - 5:00 PM

Jaya Sangodkar¹, Rita Tohme², Janna Kiselar², Sudeh Izadmehr¹, Divya Hoon¹, Sahar Mazhar², Abbey Perl², Danica Wiredja², Daniela Schlatzer², Shen Yao¹, David Kastrinsky¹, **Neelesh Sharma**², David Brautigan³, **Mark Chance**², Alain Borczuk⁴, Michael Ohlmeyer¹, Yiannis Ioannou¹, **Goutham Narla**².

¹Icahn School of Medicine at Mount Sinai, New York, NY; ²Case Western Reserve University, Cleveland, OH; ³University of Virginia School of Medicine, Charlottesville, VA; ⁴Weill Cornell Medical College, New York, NY

[4626: In-vitro growth inhibitory effects of diosmetin on human prostate cancer cells](#)

Poster Session: Wnt, AKT, and Cell Survival Pathways

Wednesday, April 20, 2016, 8:00 am - 12:00 noon

Rebecca Pakradooni, Riddhi Patel, Janmejai K. Srivastava, Sanjeev Shukla.

Case Western Reserve University, Cleveland, OH

4647: BET protein inhibition blocks growth of triple-negative breast cancer by inducing mitotic and cytokinetic dysfunction

Poster Session: Cellular Responses to Anticancer Drugs

Wednesday, April 20, 2016, 8:00 am - 12:00 noon

Jennifer M. Brancato¹, Sylvia Gayle¹, Kristen Weber-Bonk¹, **Matthew Summers²**, Gurkan Bebek¹, **Ruth Keri¹**.

¹Case Western Reserve University, Cleveland, OH; ²Cleveland Clinic, Cleveland, OH

4963: A distinct AMP-activated protein kinase phosphorylation site is associated with metastasis and castration-resistance in prostate cancer

Poster Session: Biomarkers for Genitourinary Cancers: Prostate

Wednesday, Apr 20, 2016, 7:30 AM -11:00 AM

Melissa A. Babcook¹, Mahmut Akgul², Seunghee Margevicius³, **Gregory T. MacLennan²**, **Pingfu Fu³**, **Robert Abouassaly²**, **Sanjay Gupta³**.

¹University of Toledo College of Medicine, Toledo, OH; ²University Hospitals Case Medical Center, Cleveland, OH; ³Case Western Reserve University, Cleveland, OH

5257: Upregulation of glutathione S-transferase P1 by green tea polyphenols: A novel transcriptional target of p53 tumor suppressor gene

Poster Session: Chemoprevention Studies

Wednesday, April 20, 2016, 8:00 am - 12:00 noon

Vijay S. Thakur, Gauri Deb, **Mark W. Jackson**, **Sanjay Gupta**.

Case Western Reserve University, Cleveland, OH

5258: Inhibition of DNA methyltransferases and histone methyltransferases by plant flavones

Poster Session: Chemoprevention Studies

Wednesday, April 20, 2016, 8:00 am - 12:00 noon

Rajnee Kanwal, Manish Datt, **Sanjay Gupta**.

Case Western Reserve Univ., Cleveland, OH