

▲ EDUCATIONAL SESSIONS • 8:00 a.m.–10:00 a.m.

Room 388, Morial Convention Center

Antibodies and Nanoparticles for Targeted Radiotherapy to Cancer

Chairperson: Donald J. Buchsbaum, Birmingham, AL

- 8:00 a.m. Molecular radiotherapy: Intracellular targets and delivery.** Katherine A. Vallis, Oxford, United Kingdom
- 8:30 a.m. Nanotechnology in radiation oncology.** Andrew Z. Wang, Durham, NC
- 9:00 a.m. Conventional and pretargeted radioimmunotherapy for B cell lymphomas.** Damian Green, Seattle, WA
- 9:30 a.m. Antibodies targeted to radiation inducible antigens in cancer.** Dennis E. Hallahan, St. Louis, MO

Room 265, Morial Convention Center

Cancer Metabolism and Immunometabolism: Metabolic Decisions in Oncology

Chairperson: Heather R. Christofk, Los Angeles, CA

- 8:00 a.m. Understanding and exploiting metabolic flexibility in cancer cells.** Christian Metallo, La Jolla, CA
- 8:30 a.m. Metabolic reprogramming mechanisms.** Heather R. Christofk, Los Angeles, CA
- Additional speakers to be announced.**

Room 357, Morial Convention Center

Computational Cancer Epigenomics

Chairperson: X. Shirley Liu, Boston, MA

- 8:00 a.m. Genome-scale analysis of DNA methylation in cancer: Discoveries, challenges, and opportunities.** Hui Shen, Grand Rapids, MI
- 8:30 a.m. DNA methylation to identify chromatin state changes across multiple genomic scales.** Benjamin P. Berman, Los Angeles, CA
- 9:00 a.m. Prioritizing non-coding variants in cancer genomes using epigenetic profiles.** Peter J. Park, Boston, MA
- 9:30 a.m. Modeling cancer gene regulation with public ChIP-seq profiles.** X. Shirley Liu, Boston, MA

New Orleans Theater B, Morial Convention Center

CRISPR-Cas Genome-Editing Nucleases: Introduction and Applications

Co-Chairpersons: J. Keith Joung, Charlestown, MA; Benjamin P. Kleinstiver, Charlestown, MA

- 8:00 a.m.** **General introduction to CRISPR-Cas9 and strategies to enhance homology-directed repair.** Prashant Mali, La Jolla, CA
- 8:30 a.m.** **Altering and improving the specificities of CRISPR-Cas9 nucleases.**
Benjamin P. Kleinstiver, Charlestown, MA
- 9:00 a.m.** **Genome-wide screens using libraries of CRISPR-Cas9 nucleases.**
Christopher R. Vakoc, Cold Spring Harbor, NY

Room 271, Morial Convention Center

From Chemistry to the Clinic: Pathways for Drug Discovery and Development, Part 1 Optimizing Drug Discovery: Insights on an Important Process

Co-Chairpersons: Kevin Koch, Boulder, CO; Michael J. Luzzio, Cambridge, MA

- 8:00 a.m.** **Estrogen receptor down regulation: Challenges in designing down regulators with high oral bioavailability.** Chris De Savi, Waltham, MA
(not eligible for CME credit)
- 8:40 a.m.** **Leveraging iterative 3D-structure information while managing physicochemical properties, Design of eFT508: An oral, potent and highly selective inhibitor of mitogen-activated protein kinase interacting kinase (MNK) 1 and 2.** Siegfried Reich, San Diego, CA
- 9:20 a.m.** **Discovery of clinical candidate PIM447: A potent and selective *pan*-PIM inhibitor for the treatment of hematological malignancies.** Gisele Nishiguchi, Emeryville, CA

New Orleans Theater C, Morial Convention Center

Microbiome and Cancer Immunotherapy

Chairperson: Thomas F. Gajewski, Chicago, IL

- 8:00 a.m.** **Cancer as a disease of the symbiont/metaorganism.** Giorgio Trinchieri, Bethesda, MD
- 8:30 a.m.** **Impact of commensal microbiota on anti-tumor immunity and immunotherapy efficacy.** Leticia Corrales, Chicago, IL
- 9:00 a.m.** **Implications of immunogenic commensals in therapy-induced immunosurveillance.** Laurence Zitvogel, Villejuif, France
- 9:30 a.m.** **The role of intestinal flora in patients undergoing allogeneic hematopoietic stem cell transplantation.** Marcel Van Den Brink, New York, NY

New Orleans Theater A, Morial Convention Center

Tumor Immunology and Immunotherapy for Non-Immunologists: How Tumors Regulate Immune Responses

Chairperson: Dmitry I. Gabrilovich, Philadelphia, PA

- 8:00 a.m.** **Inhibiting immune checkpoints.** Mary L. Disis, Seattle, WA
- 8:30 a.m.** **Regulatory T cells.** Dario A. Vignali, Pittsburgh, PA
- 9:00 a.m.** **Regulatory myeloid cells.** Dmitry I. Gabrilovich, Philadelphia, PA
- 9:30 a.m.** **Galectins and immune response in cancer.** Gabriel A. Rabinovich, Buenos Aires, Argentina

Room 288, Morial Convention Center

Using Tumor Biology to Drive More Effective Sarcoma Therapy

Chairperson: Christopher T. Denny, Los Angeles, CA

- 8:00 a.m.** **Overview.** Christopher T. Denny, Los Angeles, CA
- 8:30 a.m.** **New insights into sarcoma metastasis: Opportunities for therapeutic intervention.** Poul H.B. Sorensen, Vancouver, BC, Canada
- 9:00 a.m.** **Are we smart enough to cure sarcoma yet? Ewing sarcoma as a paradigm.** Stephen L. Lessnick, Columbus, OH
- 9:30 a.m.** **Immunotherapies for sarcoma: Progress and challenges.** Crystal L. Mackall, Stanford, CA

METHODS WORKSHOPS • 8:00 A.M.–10:00 A.M.

Room 354, Morial Convention Center

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

Chairperson: J. Jack Lee, Houston, TX

- 8:00 a.m.** **The evolution of early phase oncology trials—challenges and solutions: An industry perspective.** Chris H. Takimoto, Palo Alto, CA
- 8:30 a.m.** **Novel designs for identifying effective therapies early and the use of dose expansion cohorts in phase I trials.** Alexia Iasonos, New York, NY
- 9:00 a.m.** **Integrating multiple omics information in the era of precision oncology.** Yu Shyr, Nashville, TN
- 9:30 a.m.** **Barriers to clinical trial enrollment and how to overcome them.** Neal J. Meropol, Cleveland, OH

Room 291, Morial Convention Center

Forefront Imaging Techniques in Translational Research

Chairperson: Alexander Combes, Melbourne, Australia

Speakers to be announced.

Room 391, Morial Convention Center

Personalized Cancer Models with PDXs and Organoids

Chairperson: Calvin J. Kuo, Stanford, CA

8:00 a.m. Engineered organoid models of cancer. Calvin J. Kuo, Stanford, CA

8:30 a.m. Tracking clonal dynamics in patients and breast cancer xenografts.
Samuel Aparicio, Vancouver, BC, Canada

9:00 a.m. Title to be announced. Andrew L. Kung, New York, NY

Additional speaker to be announced.

Room 260, Morial Convention Center

The Use of Cell-Free DNA (cfDNA) in the Clinical Setting

Chairperson: Luis A. Diaz, Baltimore, MD

8:00 a.m. Pre-analytical considerations and PCR based approaches. Frank Diehl,
Mundelein, IL

8:30 a.m. NGS based approaches for ctDNA analysis: Laboratory. Davina Gale,
Cambridge, United Kingdom

9:00 a.m. NGS based approaches for ctDNA analysis: Bioinformatics. Maximilian Diehn,
Stanford, CA

9:30 a.m. ctDNA analysis of structural changes. Mark Sausen, Baltimore, MD

CANCER AND BIOMEDICAL RESEARCH CAREER FAIR 9:00 a.m.-3:00 p.m.

Exhibit Halls G-J

SATURDAY, APRIL 16

▲ PROFESSIONAL ADVANCEMENT SESSION • 9:30 a.m.–4:00 p.m.

La Nouvelle Ballroom, Morial Convention Center

Eleventh Annual Undergraduate Student Caucus and Poster Competition

Organized by the Science Education Committee

(not eligible for CME credit)

Chairperson: Kathleen W. Scotto, New Brunswick, NJ

- 10:00 a.m. Welcome.** Kathleen W. Scotto, New Brunswick, NJ
- 10:10 a.m. Understanding cancer.** Ernest T. Hawk, Houston, TX
- 10:30 a.m. Message from a cancer survivor.** Jameisha B. Brown, College Station, TX
- 10:45 a.m. Special presentation: Navigating the AACR Annual Meeting.** Scott A. Armstrong, New York, NY
- 11:00 a.m. Remarks from lead judge and introduction of judges.** Beverly D. Lyn-Cook, Jefferson, AR
- 1:30 p.m. Professional development panel and Q&A.** Jose G. Treviño, Gainesville, FL
Panelists: Alexandra R. Grassian, Cambridge, MA
 Diana M. Merino, Chevy Chase, MD
 Lee D. Gibbs, Fort Worth, TX
- 3:00 p.m. Remarks from 2015 first place Miller Prize winner.** Liang Chang, Saint Paul, MN
- 3:10 p.m. Prize distribution.**
- 3:45 p.m. Closing remarks and evaluation.** Kathleen W. Scotto, New Brunswick, NJ

▲ EDUCATIONAL SESSION • 10:00 a.m.–11:00 a.m.

Room 283, Morial Convention Center

Next Generation Sequencing (NGS)–Based Oncology Panels

Chairperson to be announced

10:00 a.m. Eunice Lee, Silver Spring, MD

Additional speakers to be announced.

▲ EDUCATIONAL SESSIONS • 10:15 a.m.–12:15 p.m.

Room 291, Morial Convention Center

Breast Cancer Targets in 2016

Chairperson: Lisa A. Carey, Chapel Hill, NC

- 10:15 a.m. Introduction.** Lisa A. Carey, Chapel Hill, NC
- 10:20 a.m. Targeted therapy for ESR1 positive breast cancer.** Matthew J. Ellis, Houston, TX
- 10:45 a.m. Targeting HER2/3 in breast cancer: An overview of genomic changes, drug development and clinical trials.** Ron Bose, St. Louis, MO
- 11:15 a.m. Targeting DNA repair.** James M. Ford, Stanford, CA
- 11:45 a.m. Resistance to P13K inhibitors: A problem or an opportunity?** Maurizio Scaltriti, New York, NY

Room 265, Morial Convention Center

Cancer Evolution: One Cell at a Time

Chairperson: Nicholas E. Navin, Houston, TX

- 10:15 a.m. An overview of single cell genomics in the cancer field.** Nicholas E. Navin, Houston, TX
- 10:45 a.m. The many faces of circulating tumor cells.** James B. Hicks, Los Angeles, CA
- 11:15 a.m. Clonal dynamics in space and time: Inference of evolutionary properties of cancer.** Sohrab Shah, Vancouver, BC, Canada
- 11:45 a.m. Single cell transcriptomics and its application to cellular phenotyping of primary tumors.** Paul Robson, Farmington, CT

Room 278, Morial Convention Center

Cancer Immunology for the Non-Immunologist: Tutorial

Chairperson: Ellen Puré, Philadelphia, PA

Roundtable Topics:

Interface of conventional therapies and antitumor immunity. Julie Y. Djeu, Tampa, FL

Chemokines and cancer. Steven M. Dubinett, Los Angeles, CA

Tolerance and tumor immunity. Pamela S. Ohashi, Toronto, ON, Canada

Chemotherapy and immune response. Laurence Zitvogel, Villejuif, France

Immune-based glioma therapies. Hideho Okada, San Francisco, CA

Inflammation and cancer. Sergei I. Grivennikov, Philadelphia, PA

IDO in cancer. George C. Prendergast, Wynnewood, PA

Mutation specific T cells in immunotherapy, Cornelis J. M. Melief, Leiden, The Netherlands

Use of radiation to enhance response to immunotherapy. Silvia C. Formenti, New York, NY

Targeting Tregs in tumors. Dario A. Vignali, Pittsburgh, PA

Immunotherapy of ovarian cancer. Kunle Odunsi, Buffalo, NY

Role of IgG Fc effector functions in cancer immunotherapeutics. Rony Dahan, New York, NY

Immune suppression in the tumor microenvironment (myeloid-derived suppressor cells and PDL1). Suzanne Ostrand-Rosenberg, Baltimore, MD

Immunotherapy combination strategies. James L. Gulley, Bethesda, MD

Myeloid-derived suppressor cells. Dmitry I. Gabrilovich, Philadelphia, PA

Room 260, Morial Convention Center

Emerging Targets for the Treatment of Lung Cancer

Chairperson: Eric A. Collisson, San Francisco, CA

10:15 a.m. Introduction. Eric A. Collisson, San Francisco, CA

10:20 a.m. Resistance to targeted therapies in lung adenocarcinoma. Trever G. Bivona, San Francisco, CA

10:45 a.m. Emerging targets in lung adenocarcinoma. Eric A. Collisson, San Francisco, CA

11:15 a.m. Treatment advances in squamous cell lung cancer and immunotherapy in NSCLC. Esra A. Akbay, Boston, MA

11:45 a.m. Treatment advances in small cell lung cancer. Daniel Morgensztern, St. Louis, MO

Room 271, Morial Convention Center

From Chemistry to the Clinic: Pathways for Drug Discovery and Development, Part 2
Hit/Early Lead Identification In Cancer Drug Discovery: New Screening and Medicinal Chemistry Approaches

Chairperson: Joachim Rudolph, South San Francisco, CA

- 10:15 a.m. Too big to fail: Cautionary tales from HTS and hit-to-lead.** Michael Walters, Minneapolis, MN
- 10:55 a.m. Fragments, it's a small world: Start smart, stay smart.** Justin Bower, Glasgow, United Kingdom
- 11:35 a.m. Phenotypic screening in the age of targeted therapies.** John G. Moffat, South San Francisco, CA

Room 393, Morial Convention Center

Interpreting the Biological and Clinical Significance of Mutations in Cancer

Chairperson: Barry S. Taylor, New York, NY

- 10:15 a.m. Overview.** Barry S. Taylor, New York, NY
- 10:30 a.m. Finding cancer genome variation in complex clinical specimens.** Trevor J. Pugh, Toronto, ON, Canada
- 11:05 a.m. Cancer genome sequencing: From initial surveys of the mutational landscape to building clinical applications.** Obi L. Griffith, St. Louis, MO
- 11:40 a.m. Towards precision medicine: Annotation of the oncogenic effect and treatment implications of somatic mutations in cancer.** Debyani Chakravarty, New York, NY

New Orleans Theater C, Morial Convention Center

Metabolic Interplay between Tumor and Microenvironment

Chairperson: Alec C. Kimmelman, New York, NY

- 10:15 a.m. Stroma supports pancreatic cancer metabolism.** Alec C. Kimmelman, New York, NY
- 10:45 a.m. Metabolism and the immune system.** Jeffrey C. Rathmell, Nashville, TN
- 11:15 a.m. p62: Metabolism and the tumor microenvironment.** Jorge Moscat, La Jolla, CA
- 11:45 a.m. Extracellular matrix catabolism is critical for pancreatic cancer metabolism.** Sophie Vasseur, Marseille, France

Room 288, Morial Convention Center

Radiation Therapy and Immunotherapy Combinations

Chairperson: Silvia C. Formenti, New York, NY

- 10:15 a.m.** **Emerging evidence on how to best use radiation when combined with immune checkpoint blockade.** Silvia C. Formenti, New York, NY
- 10:45 a.m.** **Regulation of the tumor response to radiation by macrophages.** Stephen Shiao, Los Angeles, CA
- 11:15 a.m.** **Stress, death, immunity, and radiation therapy.** Lorenzo Galluzzi, Paris, France
- 11:45 a.m.** **Title to be announced.** Samir N. Khleif, Augusta, GA

Room 275, Morial Convention Center

Virotherapy of Cancer

Chairperson: Richard G. Vile, Rochester, MN

- 10:15 a.m.** **Targeting tumors with oncolytic virus vaccines.** John C. Bell, Ottawa, ON, Canada
- 10:45 a.m.** **Developing a fully systemic regimen for viroimmunotherapy of cancer.** Richard G. Vile, Rochester, MN
- 11:15 a.m.** **Oncolytic adenoviruses and immune checkpoints.** Juan Fueyo, Houston, TX
- 11:45 a.m.** **Retroviral replicating vectors for cancer-targeted gene therapy and immunotherapy.** Noriyuki Kasahara, Miami, FL

▲ METHODS WORKSHOPS • 10:15 a.m.–12:15 p.m.

Room 391, Morial Convention Center

Bioinformatics in Personalized Genomics: Mutual Expectations of Clinicians and Bioinformaticians

Chairperson: Nikolaus Schultz, New York, NY

- 10:15 a.m.** **Facilitating precision oncology through enterprise-level data sharing in the clinical laboratory: Lessons from 10,000 samples.** Ahmet Zehir, New York, NY
- 10:45 a.m.** **MI-ONCOSEQ precision medicine tumor boards: Linking clinicians with integrated cancer genomics.** Dan Robinson, Ann Arbor, MI
- 11:15 a.m.** **Making complex genomics data accessible to clinicians and researchers through the cBioPortal for Cancer Genomics and other tools.** Nikolaus Schultz, New York, NY

- 11:45 a.m. Optimizing the dissemination and implementation of precision cancer medicine through health services research.** Stacy W. Gray, Boston, MA

New Orleans Theater A, Morial Convention Center

Biomarkers for Cancer Immunotherapy

Chairperson: Matthew D. Hellmann, New York, NY

- 10:15 a.m. Multiplex IHC as biomarkers for cancer immunotherapy.** Paul C. Tumei, Los Angeles, CA
- 10:45 a.m. Tumor DNA sequencing as biomarkers for cancer immunotherapy.** Eliezer Van Allen, Boston, MA
- 11:15 a.m. Mutational clonality and intratumor heterogeneity as biomarkers for cancer immunotherapy.** Nicholas McGranahan, London, United Kingdom
- 11:45 a.m. Identification and evaluation of neoantigen-specific T cells as biomarkers for cancer immunotherapy.** Pia Kvistborg, Amsterdam, The Netherlands

Room 354, Morial Convention Center

Clinical Trials Design: Part 2

Chairperson: Elizabeth M. Jaffee, Baltimore, MD

- 10:15 a.m. Successes and challenges in designing combination immunotherapy clinical trials for breast cancer.** Leisha A. Emens, Baltimore, MD
- 10:45 a.m. Issues faced by industry in developing safe and effective combination immunotherapies.** Ira Mellman, South San Francisco, CA
- 11:15 a.m. Statistical challenges in designing combination immunotherapy clinical trials.** Katy Simonsen, Princeton, NJ
- 11:45 a.m. FDA's point of view on trial designs for accelerating combination immunotherapies across multiple tumor types.** Tatiana Prowell, Silver Spring, MD

New Orleans Theater B, Morial Convention Center

Functional Screening Using CRISPR-Cas9

Chairperson: Feng Zhang, Cambridge, MA

- 10:15 a.m. Identification of new therapeutic opportunities in cancer using CRISPR screens.** Stephane Angers, Toronto, ON, Canada
- 10:45 a.m. Genome-wide CRISPR-Cas9 gene editing screens in patient-derived brain tumor stem-like cells: A case study in precision oncology.** Patrick Paddison, Seattle, WA
- 11:15 a.m. Gain-of-function genetic screening using CRISPR-Cas9.** Silvana Konermann, La Jolla, CA

Additional speaker to be announced.

Room 388, Morial Convention Center

Molecular Imaging of Cancer: Does it Translate?

Chairperson: Kimberly A. Kelly, Charlottesville, VA

- 10:15 a.m. Molecular imaging with radiolabeled probes.** Wolfgang A. Weber, New York, NY
- 10:45 a.m. Near-infrared fluorescence molecular imaging: To see or not to see.** John C. Rasmussen, Houston, TX
- 11:15 a.m. The next generation of PET tracers for oncologic imaging.** Carolyn J. Anderson, Pittsburgh, PA
- 11:45 a.m. Cancer molecular imaging with ultrasound: Moving towards clinical translation.** Juergen K. Willmann, Stanford, CA

PROFESSIONAL ADVANCEMENT SESSION 10:30 a.m.–12:00 p.m.

Room 254, Morial Convention Center

Interactive Workshop: Turning Your Ideas into Impactful Publications (not eligible for CME credit)

Chairperson: Danny R. Welch, Kansas City, KS

EDUCATIONAL SESSION • 11:00 a.m.–12:00 p.m.

Room 283, Morial Convention Center

FDA Regulation of Companion and Complementary Diagnostics

Speakers: Pamela L. Bradley, Silver Spring, MD
David Litwack, Silver Spring, MD

▲ PROFESSIONAL ADVANCEMENT SESSION

12:00 p.m.–5:00 p.m.

Acadia Room, New Orleans Marriott

Nineteenth Annual Grant Writing Workshop

Organized by the Associate Member Council (AMC)
(not eligible for CME credit)

Introduction: Message from a past attendee. Robert D. Arnold, Auburn, AL

Career development and training grants with focus on NCI-based schemes. William C. Timmer, Bethesda, MD

Leveraging preliminary data: Knowing when you have enough data and when to apply for grants. Manel Esteller, Barcelona, Spain

The importance of a diverse funding portfolio and how to successfully secure funding. Catherine J. Wu, Boston, MA

Mock study section. Victoria L. Seewaldt, Duarte, CA (chair)

Ask the panel.

Roundtable Mentors: Robert D. Arnold, Auburn, AL
John C. Byrd, Columbus, OH
Peter J. Campbell, Cambridge, United Kingdom
Luis A. Diaz, Baltimore, MD
Ethan Dmitrovsky, Houston, TX
Manel Esteller, Barcelona, Spain
Meenhard Herlyn, Philadelphia, PA
Mien-Chie Hung, Houston, TX
Thomas W. Kensler, Pittsburgh, PA
David Malkin, Toronto, ON, Canada
Iman Osman, New York, NY
Suzanne Ostrand-Rosenberg, Baltimore, MD
Dana Pe'er, New York, NY
Kerryn W. Reding, Seattle, WA
Ann Richmond, Nashville, TN
Rajeev Samant, Birmingham, AL
Victoria L. Seewaldt, Duarte, CA
Norman E. Sharpless, Chapel Hill, NC
William C. Timmer, Bethesda, MD
Danny R. Welch, Kansas City, KS
Catherine J. Wu, Boston, MA
Dihua Yu, Houston, TX

SATURDAY, APRIL 16

▲ EDUCATIONAL SESSION • 1:00 p.m.–2:30 p.m.

Room 283, Morial Convention Center

FDA's Approach to Regulating Biosimilars

Speakers: Darrell Abernethy, Silver Spring, MD
 Leah Christl, Silver Spring, MD
 Marjorie Shapiro, Silver Spring, MD
 Tanya Wroblewski, Silver Spring, MD

▲ EDUCATIONAL SESSIONS • 1:00 p.m.–3:00 p.m.

Room 354, Morial Convention Center

Alterations and Inhibition of the Spliceosome**Chairperson:** Omar I. Abdel-Wahab, New York, NY

- 1:00 p.m.** **Basic mechanisms of splicing catalysis and regulation.** Clara L. Kielkopf, Rochester, NY
- 1:30 p.m.** **Genetics and biological studies of spliceosomal mutations in cancer.** Matthew Walter, St. Louis, MO
- 2:00 p.m.** **Understanding and targeting SF3B1 in cancer.** Silvia Buonamici, Boston, MA
- 2:30 p.m.** **The role of splicing regulatory proteins in cancer.** Omar I. Abdel-Wahab, New York, NY

Room 275, Morial Convention Center

Clinical Genomics for Pediatric Cancer Patients**Chairperson:** D. Williams Parsons, Houston, TX

- 1:00 p.m.** **Precision oncology in pediatrics: From pilot studies to prospective trials.** Will Parsons, Houston, TX
- 1:30 p.m.** **Harnessing genomics for diagnosis, treatment selection, and rational trial design for children with cancer.** Katherine A. Janeway, Boston, MA
- 2:00 p.m.** **Fitting germline into the precision oncology puzzle.** Joshua D. Schiffman, Salt Lake City, UT
- 2:30 p.m.** **ClinOmics for precision cancer therapy: Report from the Center for Cancer Research, NCI.** Javed Khan, Bethesda, MD

Room 393, Morial Convention Center

From Chemistry to the Clinic: Pathways for Drug Discovery and Development, Part 3 Inhibition of K-Ras

Chairperson: Stephen W. Fesik, Nashville, TN

1:00 p.m. Strategies for targeting K-Ras. Frank McCormick, San Francisco, CA

1:40 p.m. Drugging Ras into oblivion. Gregory L. Verdine, Cambridge, MA

2:20 p.m. Approaches for targeting Ras. Stephen W. Fesik, Nashville, TN

Room 388, Morial Convention Center

Imaging and Multiplexed Biomarker Analysis in Pathology

Chairperson: Michael Angelo, Palo Alto, CA

1:00 p.m. Highly multiplexed IHC of clinical tissue biopsies using multiplexed ion beam imaging. Michael Angelo, Palo Alto, CA

1:30 p.m. Update on tissue microarrays to validate cancer biomarkers: Practical approaches and tools including web-based open source database and software. Angelo M. De Marzo, Baltimore, MD

2:00 p.m. Extracting rich information from biological images using open-source software. Anne E. Carpenter, Cambridge, MA

Additional speaker to be announced.

Room 271, Morial Convention Center

Immunoescape and Immunotherapy in Lymphoid Malignancies

Chairperson: Riccardo Dalla-Favera, New York, NY

1:00 p.m. Mechanisms of immune escape in non-Hodgkin lymphoma. Riccardo Dalla-Favera, New York, NY

1:30 p.m. Genetic Bases of Immune Escape and Checkpoint Blockade in Hodgkin Lymphoma. Margaret A. Shipp, Boston, MA

2:00 p.m. Title and speaker to be announced.

2:30 p.m. Antibody-mediated therapy of lymphoid malignancies. Ronald Levy, Stanford, CA

Room 391, Morial Convention Center

Inhibitors of DNA Repair: Beyond PARP

Chairperson: Allan M. Jordan, Manchester, United Kingdom

- 1:00 p.m. Introduction.** Allan M. Jordan, Manchester, United Kingdom
- 1:05 p.m. The trials and tribulations of drugging the DDR.** Niall M. B. Martin, Cambridge, United Kingdom
- 1:30 p.m. Modulating the DNA damage response: The role of cell cycle checkpoint inhibitors.** Shivaani Kummar, Palo Alto, CA
- 2:00 p.m. The DNA damage response kinases ATM and ATR as therapeutic targets in cancer.** Graeme C. M. Smith, Cheshire, United Kingdom
- 2:30 p.m. First-in-class cell-active inhibitors of poly-ADP ribose glycohydrolase (PARG).** Allan M. Jordan, Manchester, United Kingdom

Room 291, Morial Convention Center

Integrating Tumor Heterogeneity into Epidemiologic Studies: New Perspectives on Cancer Etiology

Chairperson: Shelley S. Tworoger, Boston, MA

- 1:00 p.m. Methods for defining tumor heterogeneity in epidemiologic studies.** David L. Rimm, Branford, CT
- 1:30 p.m. Title and speaker to be announced.**
- 2:00 p.m. Assessing associations in etiological studies of tumor subtypes: Interpretation and potential biases.** Lorenzo Richiardi, Turin, Italy
- 2:30 p.m. Integrating epidemiologic information on heterogeneity into understanding cancer etiology.** Shelley S. Tworoger, Boston, MA

New Orleans Theater C, Morial Convention Center

State of the Art Approaches to Study Resistance to Targeted Therapies

Chairperson: Katerina A. Politi, New Haven, CT

- 1:00 p.m. Integrating genetically engineered mouse models and patient-derived models to study drug resistance in lung cancer.** Katerina A. Politi, New Haven, CT
- 1:30 p.m. Patient-derived tumor grafts for studies of response and resistance to EGFR-directed therapies in colorectal cancer.** Victor E. Velculescu, Baltimore, MD

Additional speaker to be announced.

Room 265, Morial Convention Center

Stem Cells in Cancer

Chairperson: John E. Dick, Toronto, ON, Canada

- 1:00 p.m.** **Leukemic stem cells lie at the origin of AML relapse.** John E. Dick, Toronto, ON, Canada
- 1:30 p.m.** **Niche and metastasis initiation.** Ilaria Malanchi, London, United Kingdom
- 2:00 p.m.** **Repopulation of cancer stem cells in therapeutic resistance.** Keith S. Chan, Houston, TX
- 2:30 p.m.** **Mammary stem cells and breast cancer.** Rama Khokha, Toronto, ON, Canada

New Orleans Theater A, Morial Convention Center

Synthetic Biology in T cell and CAR Engineering

Chairperson: Yvonne Y. Chen, Los Angeles, CA

- 1:00 p.m.** **Synthetic biology toolkit for high-efficiency T cell and CAR engineering.** Yvonne Y. Chen, Los Angeles, CA
- 1:30 p.m.** **Target discovery for T-cells in cancer.** Michael Birnbaum, Cambridge, MA
- 2:00 p.m.** **The new T cell engineering arsenal: CARs, CCRs, iCARs, and more.** Michel Sadelain, New York, NY
- 2:30 p.m.** **Reprogramming T cell decision making for precision therapies.** Wendell Lim, San Francisco, CA

METHODS WORKSHOPS • 1:00 p.m.–3:00 p.m.

New Orleans Theater B, Morial Convention Center

Novel Approaches to Cancer Modeling in Mice: CRISPR-Cas9 Genome Editing and Beyond

Chairperson: Jos Jonkers, Amsterdam, The Netherlands

- 1:00 p.m.** **Novel approaches to model breast cancer development and therapy resistance in mice.** Jos Jonkers, Amsterdam, The Netherlands
- 1:40 p.m.** **A brave new world of mouse models through inducible gene silencing and genome editing.** Lukas Edward Dow, New York, NY
- 2:20 p.m.** **CRISPR-Cas9 multiplex mutagenesis for high throughput functional cancer genomics in mice.** Roland Rad, Munich, Germany

Room 260, Morial Convention Center

Using Resources for the Interpretation of Variants in Cancer

Chairperson: Malachi Griffith, St. Louis, MO

1:00 p.m. Malachi Griffith, St. Louis, MO

1:30 p.m. Adam A. Margolin, Portland, OR

2:00 p.m. Mia A. Levy, Nashville, TN

2:30 p.m. **Title and speaker to be announced.**

▲ PROFESSIONAL ADVANCEMENT SESSION • 1:00 p.m.–3:00 p.m.

Bissonet Room, New Orleans Marriott

WICR Professional Advancement Session: Thriving in an Extroverted World

Organized by the Women in Cancer Research (WICR) Council

(not eligible for CME credit)

Co-Chairpersons: Patricia M. LoRusso, New Haven, CT; Lori S. Friedman, South San Francisco, CA

1:00 p.m. **Introduction.** Patricia M. LoRusso, New Haven, CT

1:05 p.m. **Susan Cain: “The Power of Introverts.” (video)**

1:20 p.m. **Panel discussion.**

Moderator: Lori S. Friedman, South San Francisco, CA

Panelists: Jessie M. English, Billerica, MA
Jennifer R. Grandis, San Francisco, CA
Sabina C. Cosulich, Cambridge, United Kingdom

2:20 p.m. **Roundtable discussions**

2:55 p.m. **Evaluation and closing remarks.** Patricia M. LoRusso, New Haven, CT

▲ EDUCATIONAL SESSION • 3:00 p.m.–4:30 p.m.

Room 283, Morial Convention Center

New FDA Initiatives in Personalized Medicine

Speakers: Katherine Donigan, Silver Spring, MD

Laura Koontz, Silver Spring, MD

▲ EDUCATIONAL SESSIONS • 3:15 p.m.–5:15 p.m.

Room 265, Morial Convention Center

Harnessing the Power of Mouse Models for Cancer Immunology Research

Chairperson: Lisa M. Coussens, Portland, OR

- 3:15 p.m.** **Introduction.** Lisa M. Coussens, Portland, OR
- 3:20 p.m.** **Lymphatic vessels, inflammation, and immunity in solid tumors.**
Amanda Waite Lund, Portland, OR
- 3:45 p.m.** **Identifying myeloid-driven biologies.** Brian Ruffell, Tampa, FL
- 4:15 p.m.** **Engineering T cells for pancreas cancer.** Sunil R. Hingorani, Seattle, WA
- 4:30 p.m.** **Translating cancer neoantigens.** Gerald P. Linette, St. Louis, MO

Room 271, Morial Convention Center

In Vivo Imaging of Immune Cells and Immune Responses

Chairperson: Anna M. Wu, Los Angeles, CA

- 3:15 p.m.** **Ex vivo labeling of immune cells for tracking by PET.** Noriko Sato, Bethesda, MD
- 3:45 p.m.** **Metabolic probes (FDG, FLT) for monitoring immune responses.** Jolanda de Vries, Nijmegen, The Netherlands
- 4:15 p.m.** **ImmunoPET: Engineered antibodies for noninvasive imaging of immune cells.** Anna M. Wu, Los Angeles, CA
- 4:45 p.m.** **Deciphering immune responses through reporter gene imaging.** Robert S. Negrin, Stanford, CA

Room 388, Morial Convention Center

Integration of Novel Digital Technology into Epidemiologic Data Collection

Chairperson: Susan M. Gapstur, Atlanta, GA

- 3:15 p.m.** **Capturing diet in the digital age.** Carol J. Boushey, Honolulu, HI
- 3:45 p.m.** **Novel approaches to integrating technology to assess physical activity in epidemiologic studies.** Alpa V. Patel, Atlanta, GA
- 4:15 p.m.** **Measuring exposure to light using wearable devices.** Mariana G. Figueiro, Troy, NY
- 4:45 p.m.** **Innovations in assessing patient outcomes.** Heather S. Jim, Tampa, FL

Room 391, Morial Convention Center

Large Animal Models for Solid Tumor Oncology

Chairperson: Lawrence B. Schook, Urbana, IL

- 3:15 p.m. Transitional, technical, and biological approaches and advances to address unmet clinical needs.** Lawrence B. Schook, Urbana, IL
- 3:45 p.m. Unmet clinical needs in oncology: The value of large animal models.** George J. Weiner, Iowa City, IA
- 4:15 p.m. The new pig on the block: Genome editing in cancer models.** Angelika Schnieke, Freising, Germany
- 4:45 p.m. Organoid models and systems biology: From mouse to human.** Michael M. Shen, New York, NY

Room 354, Morial Convention Center

Measurable Residual Disease Testing in the Hematological Malignancies

Chairperson: Christopher S. Hourigan, Bethesda, MD

- 3:15 p.m. Introduction to measurable residual disease in the hematological malignancies.** Christopher S. Hourigan, Bethesda, MD
- 3:45 p.m. Next-generation sequencing in the lymphoid malignancies.** Aaron Logan, San Francisco, CA
- 4:15 p.m. Flow cytometry in the myeloid malignancies.** Roland B. Walter, Seattle, WA
- 4:45 p.m. Regulatory aspects of MRD in clinical trials.** Nicole J. Gormley, Silver Spring, MD

Room 393, Morial Convention Center

Non-Genetic Cancer Cell Plasticity and Therapy Resistance: “What Does Not Kill Me Strengthens Me”

Chairperson: Rafaella Sordella, Cold Spring Harbor, NY

Titles and speakers to be announced.

Room 260, Morial Convention Center

The Pediatric Cancer Genome

Chairperson: Charles G. Mullighan, Memphis, TN

- 3:15 p.m. Acute lymphoblastic leukemia.** Charles G. Mullighan, Memphis, TN
- 3:45 p.m. Title to be announced.** Yael P. Mosse, Philadelphia, PA
- 4:00 p.m. Title to be announced.** Olivier Delattre, Paris, France

Room 288, Morial Convention Center

Using Genomic and Other “Big Data” to Inform Clinical Trials

Chairperson: Michael A. Dyer, Memphis, TN

- 3:15 p.m.** **Identification of druggable pathways through integrated analysis.** Michael A. Dyer, Memphis, TN
- 3:45 p.m.** **Systemic interrogation of cancer dependencies.** William C. Hahn, Boston, MA
- 4:15 p.m.** **Toward pathway- and pancancer-guided interpretation of an individual’s cancer genome.** Joshua M. Stuart, Santa Cruz, CA
- 4:45 p.m.** **Title and speaker to be announced.**

▲ METHODS WORKSHOPS • 3:15 p.m.–5:15 p.m.

New Orleans Theater C, Morial Convention Center

Predicting Cancer Neoantigens: Toward Precision Immunotherapies

Chairperson: Elaine R. Mardis, Saint Louis, MO

- 3:15 p.m.** **Clinical applications of neoantigen prediction: Promise and pitfalls.** Alexandra Snyder, New York, NY
- 3:45 p.m.** **Predicting therapeutically-relevant T cell receptor antigens from tumor sequencing data.** Sofie R. Salama, Santa Cruz, CA
- 4:15 p.m.** **Adoptive T cell therapy: Personalized therapy for common cancers.** Cassian Yee, Houston, TX
- 4:45 p.m.** **Genome-guided precision vaccine design.** Elaine R. Mardis, St. Louis, MO

New Orleans Theater B, Morial Convention Center

Single Cell Biology in Cancer

Chairperson: Aviv Regev, Cambridge, MA

- 3:15 p.m.** **Highly multiplexed imaging of tumor tissues by mass cytometry for precision medical applications.** Bernd Bodenmiller, Zurich, Switzerland
- 3:45 p.m.** **Technologies for personalized cancer immunotherapies.** James R. Heath, Pasadena, CA
- 4:15 p.m.** **Integrated (epi)genome and transcriptome sequencing from single cells: Principles and applications in cancer.** Ian C. Macaulay, Cambridge, United Kingdom
- 4:45 p.m.** **Statistical analysis of transcriptional heterogeneity.** Peter V. Kharchenko, Boston, MA

New Orleans Theater A, Morial Convention Center

Tumor Heterogeneity

Chairperson: Charles Swanton, London, United Kingdom

- 3:15 p.m.** **Deciphering cancer genome evolution and intra-tumor heterogeneity: The TRACERx Analysis Pipeline.** Gareth A. Wilson, London, United Kingdom
- 3:45 p.m.** **Detecting mutational signatures in heterogeneous tumors.** Ludmil B. Alexandrov, Los Alamos, NM
- 4:15 p.m.** **Neutral evolution in cancer: Making sense of intra-tumor heterogeneity.** Andrea Sottoriva, London, United Kingdom
- 4:45 p.m.** **Title and speaker to be announced.**

▲ SPECIAL SESSION • 5:00 p.m.–6:30 p.m.

41st Floor, New Orleans Marriott

Second Annual Clinical Oncology Fellows/Junior Faculty Networking Reception

(not eligible for CME credit)

5:00 p.m. **Welcome remarks.** Carlos L. Arteaga, Nashville, TN

▲ PROFESSIONAL ADVANCEMENT SESSION 5:30 p.m.–7:30 p.m.

Carondelet Room, New Orleans Marriott

Careers in Clinical and Translational Cancer Research

Chairperson: George W. Sledge Jr., Stanford, CA

- 5:30 p.m.** **Introduction.** George W. Sledge Jr., Stanford, CA
- 5:45 p.m.** Jeffrey A. Moscow, Bethesda, MD
- 6:00 p.m.** Crystal L. Mackall, Palo Alto, CA
- 6:15 p.m.** Edith A. Perez, South San Francisco, CA
- 6:30 p.m.** **General discussion with mentors at the tables**

▲ MEET AND GREET • 6:30-8:30 p.m.

Acadia, New Orleans Marriott

New Member Networking Mixer

(not eligible for CME credit)

The New Member Networking Mixer at the AACR Annual Meeting provides an excellent opportunity for AACR's leadership to welcome and recognize new AACR members. The purpose of this event is to provide an informal gathering where new members will be welcomed into the AACR, network with colleagues, learn more about exclusive member benefits and how to get involved in the association, win prizes, and more. Members of AACR leadership, including representatives from AACR Association Groups, will be present. Refreshments will be served.

Special remarks: Nancy E. Davidson, Pittsburgh, PA, 2016-2017 AACR President

▲ MEET-THE-EXPERT SESSIONS • 7:00 a.m.–8:00 a.m.

Room 291, Morial Convention Center

Bringing Longitudinal Research and Clinical Data Together to Accelerate Translation

Andy Futreal, Houston, TX

Room 288, Morial Convention Center

Cellular Plasticity, Cellular Heterogeneity, and Single Cell Sequencing

Xin Lu, Oxford, United Kingdom

Room 265, Morial Convention Center

Epigenetic Therapies: From Bench to Bedside in Acute Myeloid Leukemia

Mark Dawson, Melbourne, Australia

Room 388, Morial Convention Center

Identifying Driver Genes in Melanoma

Yardena Samuels, Rehovot, Israel

Room 254, Morial Convention Center

Linking Genes, Environment, and Cancer: Lessons from the Mouse

Allan Balmain, San Francisco, CA

Room 243, Morial Convention Center

Liquid Biopsies: Monitoring the Cancer Genome in Blood

Sarah-Jane Dawson, Melbourne, Australia

Room 354, Morial Convention Center

Making the Most of Single Cell RNA-Seq Data

Dana Pe'er, New York, NY

Room 275, Morial Convention Center

Molecular Pathology 101

How to Optimize and Validate Immunohistochemical and In Situ Hybridization Assays: Pitfalls, Pearls, and Power

Angelo M. De Marzo, Baltimore, MD

Room 260, Morial Convention Center

Monitoring Humoral and Cellular Immune Responses from Blood and Tumor in Cancer Immunotherapy

Sacha Gnjatic, New York, NY

Room 357, Morial Convention Center

Stapled Peptides as a New Form of Medicine for Oncology Targets: Challenges and Progress

David P. Lane, Singapore, Singapore

Room 383, Morial Convention Center

Targeting EZH2: Understanding the Function of Polycomb Group Proteins

Kristian Helin, Copenhagen, Denmark

Room 391, Morial Convention Center

The Evolution of Tumors in Mice and Humans with Inherited p53 Mutations

Arnold J. Levine, Princeton, NJ

Room 271, Morial Convention Center

The Role of Metabolism in Supporting Tumor Growth

Matthew G. Vander Heiden, Cambridge, MA

Room 343, Morial Convention Center

Topic to Be Announced

George Coukos, Lausanne, Switzerland

 **NCI/NIH-SPONSORED SESSION • 7:00 a.m.–8:00 a.m.**

Room 352, Morial Convention Center

NIH Grants Session: Changes in Review, Funding, and Funding Opportunities at the NCI

(not eligible for CME credit)

Chairperson: Daniel L. Gallahan, Bethesda, MD

Speakers: Daniel L. Gallahan, Bethesda, MD
Nywana Sizemore, Bethesda, MD

▲ OPENING CEREMONY • 8:15 a.m.–9:30 a.m.

Hall F, Morial Convention Center

(not eligible for CME credit)

SUNDAY

Join us on Sunday for the Annual Meeting Opening Ceremony, a yearly tradition marking the start of four days filled with outstanding and innovative science.

AACR CEO Margaret Foti will address attendees and discuss the tremendous progress the AACR has made over the past year.

AACR President José Baselga will highlight the dramatic advances in cancer research and today's challenges in the cancer field.

The Opening Ceremony will also feature the presentation of some of the AACR's most prestigious awards, including:

- The Tenth Annual AACR Team Science Award
- The NextGen Grants for Transformative Cancer Research
- The Thirteenth Annual AACR Award for Lifetime Achievement in Cancer Research
- Recognition of the newly inducted Fellows of the AACR Academy
- The Tenth Annual AACR Margaret Foti Award for Leadership and Extraordinary Achievements in Cancer Research
- The Inaugural AACR June L. Biedler Prize for Cancer Journalism
- The 2016 AACR Distinguished Public Service Awards

**Don't miss this exciting event,
which leads directly into the
Opening Plenary Session!**

▲ PLENARY SESSION • 9:30 a.m.–12:00 p.m.

Hall F, Morial Convention Center

Opening Plenary

Breakthroughs in Cancer Research: Genomics, Epigenetics, and Immunomodulation

Chairperson: Scott A. Armstrong, New York, NY

9:30 a.m. Cancer genomics: A translational future. Elaine R. Mardis, St. Louis, MO

10:00 a.m. Targeting epigenomic dependencies in cancer. James E. Bradner, Cambridge, MA

10:30 a.m. Genome editing using CRISPR-Cas systems. Feng Zhang, Cambridge, MA

11:00 a.m. T cell recognition of human cancer. Ton Schumacher, Amsterdam, The Netherlands

11:30 a.m. Stem cells and cancer. Elaine Fuchs, New York, NY

▲ SCIENCE POLICY SESSION • 11:00 a.m.–12:30 p.m.

Room 352, Morial Convention Center

The Impact of the Affordable Care Act (ACA) on Cancer Research, Care, and Prevention

Chair and Moderator: Gilbert S. Omenn, Ann Arbor, MI

Speakers: William S. Dalton, Tampa, FL
Mary J. Scroggins, Washington, DC
Ernest T. Hawk, Houston, TX
Jennifer Singleterry, Washington, DC

▲ PRESIDENTIAL ADDRESS • 1:00 p.m.–2:00 p.m.

Hall F, Morial Convention Center

José Baselga, New York, NY

▲ MEET AND GREET • 1:00 p.m.–2:00 p.m.

AACR Publications Booth (2030), Exhibit Halls G-J

Meet the Editor-in-Chief of *Clinical Cancer Research* (not eligible for CME credit)

Kenneth C. Anderson, Boston, MA

▲ NCI/NIH-SPONSORED SESSION • 1:00 p.m.–2:00 p.m.

Room 352, Morial Convention Center

Funding Opportunities from the Recalcitrant Cancer Research Act of 2012 (not eligible for CME credit)

Pancreatic cancer initiatives. Sudhir Srivastava, Rockville, MD

SCLC: Coordinating center and approaches to diagnosis and prevention. Eva Szabo,
Rockville, MD

Therapeutic development and mechanisms of resistance in SCLC. Suzanne Forry,
Rockville, MD

▲ SCIENCE POLICY SESSION • 1:00 p.m.–2:30 p.m.

Room 334, Morial Convention Center

The Intersection of Science Policy and Cancer Research: A Town Hall Meeting on the Vice President's Cancer Initiative and AACR's Advocacy Efforts (not eligible for CME credit)

Chair and Moderator: Roy A. Jensen, Kansas City, KS

Speakers: Jon G. Retzlaff, Washington, DC
Mary Lee Watts, Washington, DC
Lee D. Gibbs, Fort Worth, TX
Mary Jackson Scroggins, Washington, DC

▲ PROFESSIONAL ADVANCEMENT SESSION • 1:00 p.m.–2:30 p.m.

Grand Salon B, Hilton New Orleans Riverside

**Off the Bench: A Guide to Cancer Research Careers
Beyond the Traditional Academic Path**

Organized by the Associate Member Council (AMC)

(not eligible for CME credit)

Forging a non-traditional career: Academia. David A. Fruman, Irvine, CA

Forging a non-traditional career: Industry. Susan M. Galbraith, Macclesfield, United Kingdom

Forging a non-traditional career: Government. Jean C. Zenklusen, Bethesda, MD

Forging a non-traditional career: Nonprofit. Pat J. Morin, Philadelphia, PA

Panel discussion Q&A

Networking session with invited guests

▲ REGULATORY SCIENCE AND POLICY SESSION
1:00 p.m.–3:00 p.m.

Room 283, Morial Convention Center

**A Discussion of Early-Phase Expansion Cohort Trial Design in the
Development of Future Oncology Products**

Chairperson: Tatiana Prowell, Silver Spring, MD

Speakers: Philippe L. Bedard, Toronto, ON, Canada

Roy Jones, Houston, TX

Samantha Roberts, Washington, DC

Eric Rubin, North Wales, PA **(not eligible for CME credit)**

Lillian L. Siu, Toronto, ON, Canada

▲ POSTER SESSIONS • 1:00 p.m.–5:00 p.m.

Exhibit Halls G-J

(not eligible for CME credit)

Complete titles and author listings for abstracts in the poster sessions are available in the online Itinerary Planner, the Annual Meeting App (available at www.AACR.org/AACR2016), and in the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

Molecular and Cellular Biology/Genetics

- Section 1 Altered Cellular Signaling and Cancer Metabolomics
- Section 2 Altered Glucose Metabolism in Cancer
- Section 3 Functional Genomics and Genomics of Model Systems
- Section 4 Genomic Analysis of Cancers
- Section 5 Genomic Profiling of Cancers
- Section 6 Intratumor Heterogeneity and Resistance
- Section 7 Kinases and Phosphatases
- Section 8 Mitochondria, Autophagy, and Metabolic Vulnerabilities
- Section 10 Late-Breaking Research: Molecular and Cellular Biology 1

Cancer Chemistry

- Section 12 Late-Breaking Research: Cancer Chemistry

Experimental and Molecular Therapeutics

- Section 14 Cellular Processes and Responses to Therapy
- Section 15 Combination Chemotherapy
- Section 16 Mechanisms of Drug Resistance 1
- Section 17 Novel Antitumor Agents
- Section 18 Novel Assays
- Section 19 PI3K/AKT Inhibitors

Clinical Research

- Section 20 Biomarkers
- Section 21 Biomarkers for Genitourinary and Gynecological Cancers
- Section 22 Biomarkers for Melanoma and Uncommon Cancers
- Section 23 Circulating Biomarkers 1
- Section 24 Radiation Oncology

Immunology

- Section 25 Genetic Determinants and Regulators of Cancer Immunity
- Section 26 Immune Modulating Agents 1
- Section 27 Therapeutic Antibodies

Tumor Biology

- Section 11 Late-Breaking Research: Tumor Biology 1
- Section 28 Drug Testing in Cell Lines and 3D Models
- Section 29 Human in Mouse Models
- Section 30 Mechanisms of Tumorigenesis in Animal Models of Cancer 1
- Section 31 Molecular Regulation of Tumor Invasion
- Section 32 Pro-Tumorigenic Microenvironment
- Section 33 Targeting the Microenvironment

Bioinformatics and Systems Biology

- Section 34 Systems Biology

Epidemiology

- Section 36 Genes and Function and Risk

Prevention Research

- Section 37 Models and Mechanisms in Cancer Prevention

CAREER CONVERSATIONS • 1:15 p.m.–2:00 p.m.

AACRcentral, Associate Member Resource and Career Center

Physician-scientists: Leveraging Your Training and Carving Out Your Niche

Organized by the Associate Member Council (AMC)

(not eligible for CME credit)

Speakers: Gregory L. Beatty, Philadelphia, PA
Eliezer M. Van Allen, Boston, MA

▲ SPECIAL SESSION • 1:15 p.m.–2:15 p.m.

AACRcentral Amphitheater

MEG Working Group Networking Event with Early-Career Researchers: The Role of Molecular Epidemiology in Precision Medicine

(not eligible for CME credit)

1:15 p.m. Opening remarks: Co-moderators. Jonine D. Figueroa, Edinburgh, United Kingdom; Leah E. Mechanic, Bethesda, MD

1:20 p.m. Speakers: Nilanjan Chatterjee, Rockville, MD
Ulrike Peters, Seattle, WA
Avrum E. Spira, Boston, MA

▲ MEET AND GREET • 1:30 p.m.–3:00 p.m.

AACRcentral, MICR Networking and Resource Center, Exhibit Halls G-J

MICR Council Meet and Greet

Organized by the Minorities in Cancer Research (MICR) Council

(not eligible for CME credit)

Chairperson: Edith A. Perez, South San Francisco, CA

Past Chairperson: Chanita Hughes-Halbert, Charleston, SC

Chairperson-Elect: Rick A. Kittles, Tucson, AZ

Chairperson-Elect Designate: John M. Carethers, Ann Arbor, MI

Council Members: Lisa L. Baumbach-Reardon, Phoenix, AZ

Claudia R. Baquet, Columbia, MD

Christopher S. Lathan, Boston, MA

Lisa A. Newman, Detroit, MI

Coleman K. Obasaju, Indianapolis, IN

Brian M. Rivers, Atlanta, GA

Sanya A. Springfield, Bethesda, MD

John H. Stewart, Durham, NC

Charles R. Thomas, Portland, OR

▲ MEET AND GREET • 2:00 p.m.–4:00 p.m.

AACRcentral, WICR Networking and Resource Center, Exhibit Halls G-J

WICR Council Meet and Greet

Organized by the Women in Cancer Research (WICR) Council
(not eligible for CME credit)

Chairperson: Victoria M. Richon, Wellesley Hills, MA

Past Chairperson: Jessie M. English, Billerica, MA

Chairperson-Elect: Patricia M. LoRusso, New Haven, CT

Council Members: Lucile L. Adams-Campbell, Washington, DC
Caroline Dive, Manchester, United Kingdom
Lori S. Friedman, South San Francisco, CA
Pearl S. Huang, Basel, Switzerland
S. Percy Ivy, Rockville, MD
Kornelia Polyak, Boston, MA
Judith S. Sebolt-Leopold, Ann Arbor, MI
Lillian L. Siu, Toronto, ON, Canada
Thea D. Tlsty, San Francisco, CA

▲ NCI/NIH-SPONSORED SESSION • 2:15 p.m.–3:45 p.m.

Room 352, Morial Convention Center

NCI's Center for Cancer Genomics: Initiatives to Further Precision Medicine

(not eligible for CME credit)

Co-Chairpersons: Jaime M. Guidry Auvil, Bethesda, MD; Jean C. Zenklusen, Bethesda, MD

Overview of NCI Center for Cancer Genomics programmatic objectives. Jaime M. Guidry Auvil, Bethesda, MD

CCG precision medicine collaborations initiatives: ALCHEMIST and exceptional responders. Roy Tarnuzzer, Bethesda, MD

CTD² Network updates. Subhashini Jagu, Bethesda, MD

CCG tumor characterization initiatives: TARGET pediatric cancer genomics initiative and CGCI updates. Jaime M. Guidry Auvil, Bethesda, MD

CCG tumor characterization initiatives: The Cancer Genome Atlas–A report on adult cancer genomics. Jean C. Zenklusen, Bethesda, MD

Newer CCG initiatives: CDDP and CTSP. Jean C. Zenklusen, Bethesda, MD

Large-scale data storage and access for CCG initiatives: Genomic Data Commons. Tanja M. Davidsen, Bethesda, MD

▲ MAJOR SYMPOSIA • 2:15 p.m.–4:00 p.m.

Room 288, Morial Convention Center

Developmental Pathways

Chairperson: Duoja D. J. Pan, Baltimore, MD

2:15 p.m. Introduction

2:25 p.m. Stem cells and signaling pathways in regeneration and malignancy. Philip A. Beachy, Stanford, CA

2:55 p.m. Targeting stem cell pathways in human cancer. Ruggero De Maria, Roma, Italy [SY01-02]*

3:25 p.m. The Hippo signaling pathway in organ size control and tumorigenesis. Duoja D. J. Pan, Baltimore, MD

New Orleans Theater A, Morial Convention Center

Epigenetics and Signaling in Cancer

Chairperson: Karen M. Cichowski, Boston, MA

2:15 p.m. Introduction

2:25 p.m. Convergence of signaling activation and epigenetic dysregulation in myeloid malignancies. Ross L. Levine, New York, NY

2:55 p.m. Co-targeting epigenetic regulators and oncogenic signaling pathways in cancer. Karen M. Cichowski, Boston, MA

3:25 p.m. Epigenetic and kinase crosstalk in solid tumors. Ramon E. Parsons, New York, NY

Room 293, Morial Convention Center

Inflammation and Cancer: Targeting the Myeloid Microenvironment

Chairperson: Lisa M. Coussens, Portland, OR

2:15 p.m. Introduction

2:25 p.m. Macrophage PI3Kgamma drives cancer immune suppression. Judith A. Varner, La Jolla, CA [SY03-01]*

2:55 p.m. Deciphering mechanisms of resistance to macrophage-targeted therapies. Johanna A. Joyce, Lusanne, Switzerland

3:25 p.m. Paracrine nexus of intratumoral leukocytes: Fueling response and resistance of immunotherapies. Lisa M. Coussens, Portland, OR

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

Room 265, Morial Convention Center

Dharma Master Jiantai Symposium in Targeted Therapy: Mutant p53 Activities and Targeted Therapies

Chairperson: Guillermina Lozano, Houston, TX

2:15 p.m. Introduction

2:25 p.m. The in vivo gain-of-function activities of mutant p53. Guillermina Lozano, Houston, TX [SY04-01]*

2:55 p.m. Opposing roles of wild-type and mutant forms of p53. Carol L. Prives, New York, NY

3:25 p.m. Improving survival by exploiting tumor dependence on stabilized mutant p53 in mouse mode. Ute Moll, Stony Brook, NY [SY04-03]*

New Orleans Theater B, Morial Convention Center

Precision Checkpoint Immunotherapy

Chairperson: Antoni Ribas, Los Angeles, CA

2:15 p.m. Immune checkpoints limiting responses to cancer. Gordon Freeman, Boston, MA

2:45 p.m. Selectable markers for checkpoint inhibitor immunotherapy. Janis M. Taube, Baltimore, MD

3:15 p.m. Targeting adaptive immune resistance. Antoni Ribas, Los Angeles, CA

Room 343, Morial Convention Center

The Roles of Non-coding RNAs in Cancer

Chairperson: Phillip A. Sharp, Cambridge, MA

2:15 p.m. Introduction

2:25 p.m. lncRNA networks. Lynne Maquat, Rochester, NY

2:55 p.m. The LIN28/let-7 pathway in development and disease. George Q. Daley, Boston, MA

3:25 p.m. Regulatory RNAs. Nikolaus Rajewsky, Berlin, Germany

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

Room 357, Morial Convention Center

The Science of Surviving: Looking Back to Inform the Future

Chairperson: Smita Bhatia, Birmingham, AL

2:15 p.m. Introduction

2:25 p.m. Childhood cancer survivorship research: Has it informed clinical practice?

Leslie L. Robison, Memphis, TN

2:55 p.m. What have we learned from survivors of adult-onset cancer? Lois B. Travis,

Indianapolis, IN

3:25 p.m. Personalizing treatment to reduce long-term morbidity: Are we there yet?

Smita Bhatia, Birmingham, AL

Room 393, Morial Convention Center

AACR-Bayard D. Clarkson Symposium: Tumor Cell of Origin and Cancer Stem Cells

Chairperson: Luis F. Parada, New York, NY

2:15 p.m. Introduction

2:25 p.m. Cell of origin role in cancer stem cell and GBM phenotype. Luis F. Parada,

New York, NY

2:55 p.m. Normal and neoplastic stem cells. Irving L. Weissman, Stanford, CA

[SY08-02]*

3:25 p.m. Lgr5+ stem cells in self-renewal and disease of the stomach. Nicholas

Barker, Singapore, Singapore

▲ RECENT ADVANCES IN DIAGNOSTICS AND THERAPEUTICS RESEARCH • 2:15 p.m.–4:00 p.m.

Room 243, Morial Convention Center

Hormone Receptors and Breast Cancer

Chairperson: Sarat Chandarlapaty, New York, NY

2:15 p.m. Mutational landscape of hormone independent breast cancer. Sarat

Chandarlapaty, New York, NY

2:45 p.m. Activation and crosstalk among nuclear receptors in breast cancer. Suzanne

D. Conzen, Chicago, IL

3:15 p.m. Epigenetics of hormone receptor action in breast cancer. Mathieu Lupien,

Toronto, ON, Canada

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

▲ RECENT ADVANCES IN ORGAN SITE RESEARCH
2:15 p.m.–4:00 p.m.

Room 291, Morial Convention Center

Multiple Myeloma

Chairperson: Kenneth C. Anderson, Boston, MA

- 2:15 p.m.** **The impact of genomics on diagnosis, prognosis, and treatment of myeloma.** Faith E. Davies, Little Rock, AR
- 2:45 p.m.** **The importance of plasma cell biology in treating newly diagnosed multiple myeloma.** Sagar Lonial, Atlanta, GA
- 3:15 p.m.** **Treatment of relapsed myeloma with novel targeted and immune therapies.** Kenneth C. Anderson, Boston, MA

Room 275, Morial Convention Center

New Actionable Targets in Malignancies of the Upper Aerodigestive Tract

Chairperson: Lillian L. Siu, Toronto, ON, Canada

- 2:15 p.m.** **Whole exome sequencing study of nasopharyngeal and esophageal cancers.** H. Phillip Koeffler, Los Angeles, CA
- 2:45 p.m.** **Comprehensive molecular profiling datasets in head and neck squamous cell cancer.** Jennifer Rubin Grandis, San Francisco, CA
- 3:15 p.m.** **What are actionable targets in the management of head and neck squamous cell and nasopharyngeal cancers?** Brigette B. Ma, Hong Kong, Hong Kong

Room 260, Morial Convention Center

The Treatment of Advanced Soft Tissue Sarcoma and Gastrointestinal Stromal Tumors

Chairperson: Patrick Schöffski, Leuven, Belgium

- 2:15 p.m.** **Introduction.** Patrick Schöffski, Leuven, Belgium
- 2:20 p.m.** **Emerging first line systemic treatment options for advanced soft tissue sarcoma.** William Tap, New York, NY
- 2:40 p.m.** **New evidence-based treatment standards for advanced inoperable leiomyo- and liposarcomas after failure of first-line chemotherapy.** Patrick Schöffski, Leuven, Belgium
- 3:00 p.m.** **Experimental treatment options for gastrointestinal stromal tumors with primary or secondary resistance to tyrosine kinase inhibitors.** Suzanne George, Boston, MA
- 3:20 p.m.** **Clinical genomic testing in sarcoma for risk stratification, treatment selection, and disease monitoring.** Marc Ladanyi, New York, NY

▲ RECENT ADVANCES IN PREVENTION RESEARCH 2:15 p.m.–4:00 p.m.

Room 271, Morial Convention Center

Global Cancer Prevention

Chairperson: Rengaswamy Sankaranarayanan, Lyon, France

- 2:15 p.m.** **Global experiences in implementing cancer prevention interventions in low- and middle-income countries (LMICs).** Rengaswamy Sankaranarayanan, Lyon, France
- 2:45 p.m.** **Innovative approaches to prevent and treat cervical cancer globally.** Kathleen Schmeler, Houston, TX
- 3:15 p.m.** **Esophageal cancer prevention in China.** You-lin Qiao, Beijing, China

▲ DRUG DEVELOPMENT TRACK: SPECIAL SESSION 2:15 p.m.–4:15 p.m.

New Orleans Theater C, Morial Convention Center

New Drugs on the Horizon 1

Co-Chairpersons: Lori S. Friedman, South San Francisco, CA; Indrawan J. Mcalpine, San Diego, CA

- 2:15 p.m.** **Discovery and pre-clinical pharmacology of AZD0156: A first-in-class potent and selective inhibitor of Ataxia telangiectasia mutated (ATM) kinase.** Elaine Cadogan, Cambridge, United Kingdom
- 2:39 p.m.** **A selective CDC7 inhibitor (LY3177833) impacts chromosome dynamics and has robust and durable activity in PDX tumor models.** Xiang S. Ye, Shanghai, China
- 3:03 p.m.** **JNJ-61610588: A human anti-VISTA antibody induces antitumor responses via a unique mechanism of action.** Linda A. Snyder, Spring House, PA (**not eligible for CME credit**)
- 3:27 p.m.** **MBG453: A high affinity, ligand-blocking anti-TIM-3 monoclonal Ab.** Catherine A. Sabatos-Peyton, Cambridge, MA (**not eligible for CME credit**)
- 3:51 p.m.** **First-in-class T cell-redirecting bispecific antibody targeting glypican-3: A highly tumor-selective antigen.** Takahiro Ishiguro, Tokyo, Japan [DDT01-05]*

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

▲ CLINICAL TRIALS PLENARY SESSION 1 • 2:15 p.m.-4:15 p.m.

La Nouvelle Ballroom, Morial Convention Center

Immuno-oncology Clinical Trials I

Chairperson and discussants to be announced

CT002 Initial report of overall survival rates from a randomized phase II trial evaluating the combination of nivolumab (NIVO) and ipilimumab (IPI) in patients with advanced melanoma (MEL). Michael Postow, New York, NY

CT003 A phase I study of an HLA-DPB1*0401-restricted T-cell receptor targeting MAGE-A3 for patients with metastatic cancer. Yong-Chen Lu, Bethesda, MD

CT004 KEYNOTE-006: PD-L1 expression and efficacy in patients (pts) treated with pembrolizumab (pembro) vs ipilimumab (IPI) for advanced melanoma. Matteo Carlino, Wentworthville, Australia

CT001 Durable, long-term survival in previously treated patients with advanced melanoma (MEL) who received nivolumab (NIVO) monotherapy in a phase I trial. F. Stephen Hodi, Boston, MA

▲ CAREER CONVERSATIONS • 2:30 p.m.-3:30 p.m.

AACRcentral, Associate Member Resource and Career Center

Searching for the Right Postdoctoral Position

**Organized by the Associate Member Council (AMC)
(not eligible for CME credit)**

Speakers: Paul A. Northcott, Memphis, TN
Clodia Osipo, Maywood, IL

▲ MEET THE RESEARCH ICON • 2:30 p.m.-3:30 p.m.

AACRcentral Amphitheater

Meet the Pancreatic Cancer Research Icon: Frank McCormick

(not eligible for CME credit)

Frank McCormick, San Francisco, CA

▲ SCIENCE POLICY SESSION • 3:00 p.m.–4:30 p.m.

Room 283, Morial Convention Center

Tobacco Control Policy Session

The Need for ENDS Regulations: Public Health Concerns and Opportunities

Chair and Moderator: Roy S. Herbst, New Haven, CT

Speakers: Peter G. Shields, Columbus, OH

Brian A. King, Atlanta, GA

Lauren Dutra, San Francisco, CA

Ray Niaura, Washington, DC

▲ MEET AND GREET • 3:45 p.m.–4:45 p.m.

AACRcentral Amphitheater

Meet the Mentor I: Undergraduate Focus Featuring Danny R. Welch

(not eligible for CME credit)

Chairperson: Kathleen W. Scotto, New Brunswick, NJ

Mentor: Danny R. Welch, Kansas City, KS

▲ MEET THE RESEARCH ICON • 3:45 p.m.–4:45 p.m.

AACRcentral, Associate Member Resource and Career Center

Meet the Research Icon: Joan S. Brugge

Organized by the Associate Member Council (AMC)

(not eligible for CME credit)

Joan S. Brugge, Boston, MA

▲ NCI/NIH-SPONSORED SESSION • 3:45 p.m.–5:15 p.m.

Room 352, Morial Convention Center

NCI's Cancer Genomics Cloud Pilots

(not eligible for CME credit)

Chairperson: Anthony Kerlavage, Rockville, MD

Overview of NCI Genomics Data Commons and Cancer Genomics Cloud Pilots.

Ishwar Chandramouliswaran, Bethesda, MD

Specific Cancer Genomics Cloud Pilot initiatives. Brandi Davis Dusenbery, Cambridge, MA
Ilya Shmulevich, Seattle, WA
Gad Getz, Charlestown, MA

Cancer Genomics Cloud Pilot user talks: Resolving tumor heterogeneity using the Cancer Genomics Cloud. Jeffrey H. Chuang, Farmington, CT

Cancer Genomics Cloud Pilot user talks: Cloud-enabled parallel variant calling and data sharing in PanCanAtlas. Kuan-lin Huang, St. Louis, MO

Cancer Genomics Cloud Pilot user talks: Using Firecloud for rapid tumor heterogeneity analysis. Ignaty Leshchiner, Cambridge, MA

CGC Roundtable

Panelists: Anthony Kerlavage, Rockville, MD
Ishwar Chandramouliswaran, Bethesda, MD
Brandi Davis Dusenbery, Cambridge, MA
Ilya Shmulevich, Seattle, WA
Gad Getz, Charlestown, MA
Jeffrey H. Chuang, Farmington, CT
Kuan-lin Huang, St. Louis, MO
Ignaty Leshchiner, Cambridge, MA

Room 254, Morial Convention Center

The NCI RAS Initiative at the Frederick National Laboratory for Cancer Research

(not eligible for CME credit)

Speakers: Frank McCormick, San Francisco, CA
Thomas J. Turbyville, Frederick, MD
Dhirendra Simanshu, Frederick, MD
Marco Biancucci, Chicago, IL
Perry Kennedy, Tampa, FL

▲ MEET AND GREET • 4:00 p.m.–5:00 p.m.

AACR Publications Booth (2030), Exhibit Halls G-J

Meet the Editor-in-Chief of *Cancer Research*

(not eligible for CME credit)

George C. Prendergast, Wynnewood, PA

▲ CLINICAL TRIALS PLENARY SESSION 2 • 4:15 p.m.–6:00 p.m.

La Nouvelle Ballroom, Morial Convention Center

Precision Medicine Early Clinical Trials

Chairperson and discussants to be announced

CT005 Phase I study of RAF dimer inhibitor BGB-283 in patients with B-RAF or K-RAS/N-RAS mutated solid tumors. Jayesh Desai, Melbourne, Australia

CT006 Crizotinib achieves objective responses and long-lasting disease control in patients (pts) with metastatic papillary renal cell carcinoma type 1 (PRCC1) with somatic MET mutations: EORTC phase II trial 90101 “CREATE.” Patrick Schoffski, Leuven, Belgium

CT007 Entrectinib, an oral pan-Trk, ROS1, and ALK inhibitor in TKI-naïve patients with advanced solid tumors harboring gene rearrangements - Updated phase I results. Alexander Drilon, New York, NY

CT008 Clinical safety and activity from a phase I study of LOXO-101, a selective TRKA/B/C inhibitor, in solid-tumor patients with NTRK gene fusions. David S. Hong, Houston, TX

▲ CLINICAL TRIALS MINISYMPOSIUM • 4:15 p.m.-6:15 p.m.

Room 291, Morial Convention Center

Early Clinical Trials of Agents Targeting DNA Repair or the Epigenome

Chairperson to be announced

- 4:15 p.m.** **CT010** Phase I trial combining the PARP inhibitor olaparib (Ola) and AKT inhibitor AZD5363 (AZD) in germline (g)BRCA and non-BRCA mutant (m) advanced cancer patients (pts) incorporating noninvasive monitoring of cancer mutations. Vasiliki Michalarea, London, United Kingdom
- 4:30 p.m.** **CT011** Safety and efficacy results from a phase I dose-escalation trial of the PARP inhibitor talazoparib in combination with either temozolomide or irinotecan in patients with advanced malignancies. Zev A. Wainberg, Santa Monica, CA
- 4:45 p.m.** **CT012** Phase 1 trial of first-in-class ATR inhibitor VX-970 in combination with cisplatin (Cis) in patients (pts) with advanced solid tumors (NCT02157792). Geoffrey Shapiro, Boston, MA
- 5:00 p.m.** **CT013** A phase Ib, open-label, multicenter study to assess the safety, tolerability, pharmacokinetics, and antitumor activity of AZD1775 monotherapy in patients with advanced solid tumors: initial findings. David Spigel, Nashville, TN
- 5:15 p.m.** **CT014** GSK525762, a selective bromodomain (BRD) and extra terminal protein (BET) inhibitor: results from part 1 of a phase I/II open-label single-agent study in patients with NUT midline carcinoma (NMC) and other cancers. Peter J. O'Dwyer, Philadelphia, PA
- 5:30 p.m.** **CT015** Results from a phase I/II study with the HDAC inhibitor entinostat in combination with high-dose interleukin-2 in renal cell carcinoma patients (CTEP#7870). Roberto Pili, Indianapolis, IN
- 5:45 p.m.** **CT016** Abexinostat (ABX) as a means to reverse pazopanib (PAZ) resistance: a phase I study in advanced solid tumor malignancies. Pamela N. Munster, San Francisco, CA
- 6:00 p.m.** **CT017** A phase I study of guadecitabine (GUA) combined with irinotecan (IRI) in previously treated metastatic colorectal cancer (mCRC) patients. Nilofer Azad, Baltimore, MD

▲ DRUG DEVELOPMENT TRACK: SPECIAL SESSION 4:15 p.m.-6:15 p.m.

New Orleans Theater C, Morial Convention Center

New Drugs on the Horizon 2

Co-Chairpersons: Steven K. Davidsen, Libertyville, IL; Cynthia Seidel-Dugan, Belmont, MA

- 4:15 p.m.** **eFT508: An oral, potent and highly selective inhibitor of mitogen-activated protein kinase interacting kinase (MNK) 1 and 2, a novel approach for the treatment of cancer.** Kevin R. Webster, San Diego, CA (**not eligible for CME credit**)
- 4:39 p.m.** **Discovery of CPI-1205: A novel EZH2 methyltransferase inhibitor, with diverse potential applications in the treatment of cancer.** Patrick Trojer, Cambridge, MA
- 5:03 p.m.** **CD22 Targeted Thorium Conjugate (TTC): A first in class alpha-pharmaceutical.** Alan S. Cuthbertson, Oslo, Norway
- 5:27 p.m.** **From Patient derived xenograft to patient: Development of SAR428926, a new maytansin-antibody drug conjugate.** Veronique Blanc, Vitry-sur-Seine, France (**not eligible for CME credit**)
- 5:51 p.m.** **FPA144: A therapeutic monoclonal antibody with enhanced antibody-dependent cell killing for the treatment of fibroblast growth factor receptor 2b overexpressing cancers.** Kristen L. Pierce, South San Francisco, CA (**not eligible for CME credit**)

▲ LATE-BREAKING MINISYMPOSIUM • 4:15 p.m.-6:15 p.m.

Room 275, Morial Convention Center

Late-Breaking Minisymposium

Chairperson: Piro Lito, New York, NY

- 4:20 p.m.** **LB-068 Classification of cancer by synthesis of rare non-coding mutations within recurrent epigenetic and protein networks.** Wei Zhang, La Jolla, CA
- 4:35 p.m.** **LB-069 ESR1 mutations in circulating tumour DNA predict outcome to endocrine treatment in patients with estrogen receptor positive advanced breast cancer: Analysis of 521 patients in the SoFEA and PALOMA3 trials.** Ben O'Leary, London, United Kingdom
- 4:50 p.m.** **LB-070 Next generation sequencing of prostate cancer reveals germline and somatic alterations detected at diagnosis and at metastasis that may impact clinical decision making.** Michael F. Walsh, New York, NY
- 5:05 p.m.** **LB-071 Allele-specific inhibitors inactivate mutant KRAS G12C by a trapping mechanism.** Piro Lito, New York, NY

- 5:20 p.m. **LB-072 Impact of baseline serum cytokines on survival in patients (pts) with advanced squamous (SQ) non-small cell lung cancer (NSCLC) treated with nivolumab (nivo) or docetaxel (doc): Exploratory analyses from CheckMate 063 and CheckMate 017.** Benedetto Farsaci, Princeton, NJ
- 5:35 p.m. **LB-073 Epigenome evolution in relapsed acute myeloid leukemia.** Sheng Li, New York, NY
- 5:50 p.m. **LB-074 Regression of duodenal neoplasia in familial adenomatous polyposis patients using COX and EGFR inhibition: A randomized placebo-controlled trial.** Deborah W. Neklason, Salt Lake City, UT

▲ MINISYMPOSIA • 4:15 p.m.–6:15 p.m.

Room 243, Morial Convention Center

Bioinformatics and Systems Biology

Novel and Integrative Analyses of Cancer Genome Data

Co-Chairpersons: Trevor J. Pugh, Toronto, ON, Canada; Jinghui Zhang, Memphis, TN

- 4:15 p.m. **Introduction**
- 4:20 p.m. **846 Improving T-cell receptor clonotyping of T-cell lymphomas using hybrid-Capture and next-generation sequencing.** Etienne Mahe, Calgary, AB, Canada
- 4:35 p.m. **847 Molecular characterization of breast tumor T-cell infiltration in exome datasets.** Olivier Harismendy, La Jolla, CA
- 4:50 p.m. **848 Proteogenomic analysis of alternative splicing: The search for novel biomarkers for colorectal cancer.** Malgorzata A. Komor, Amsterdam, The Netherlands
- 5:05 p.m. **849 Improved geometric deconvolution of bulk tumor genomic data.** Theodore Roman, Pittsburgh, PA
- 5:20 p.m. **850 Comprehensive genome and transcriptome structural analysis of a breast cancer cell line using single molecule sequencing.** Maria Nattestad, Cold Spring Harbor, NY
- 5:35 p.m. **851 Analysis of cancer-initiating mosaic mutation in germline samples of pediatric cancer patients by next generation sequencing.** Xiaotu Ma, Memphis, TN
- 5:50 p.m. **852 Modeling the emergence of resistance to chemotherapeutics with virtual tumor.** Eric Fernandez, Oxford, United Kingdom
(not eligible for CME credit)

Room 391, Morial Convention Center

Clinical Research

Biomarkers to Direct Cancer Therapy

Co-Chairpersons: Eliezer Van Allen, Boston, MA; Nicholas C. Turner, London, United Kingdom

4:15 p.m. Introduction

4:20 p.m. **853 Novel quantitative multiplexed PD-1/PD-L1 immunohistochemistry test provides superior prediction of treatment response in melanoma patients.** Jennifer Bordeaux, Carlsbad, CA (not eligible for CME credit)

4:35 p.m. **854 Mutation load measured using a 315 gene panel predicts genome-wide mutation load.** Artur Veloso, Cambridge, MA

4:50 p.m. **855 p53 isoform $\Delta 133p53\beta$ triple negative breast cancer and increased relapse with neoadjuvant taxanes.** Alastair M. Thompson, Houston, TX

5:05 p.m. **856 Number of ALK-amplified circulating tumor cells predicts progression-free survival in ALK-rearranged non-small cell lung cancer patients treated by crizotinib.** Emma Pailler, Villejuif, France

5:20 p.m. **857 Diagnostic test system for sensitive, specific and reproducible detection of EML4-ALK RNA fusion transcripts in the blood of patients with NSCLC.** Hestia Mellert, Boulder, CO (not eligible for CME credit)

5:35 p.m. **858 Combining sensitivity markers to identify triple-negative breast cancer patients most responsive to veliparib/carboplatin: Results from the I-SPY 2 TRIAL.** Denise M. Wolf, San Francisco, CA

5:50 p.m. **859 Gene and pathway differences between MammaPrint High1/High2 risk classes: Results from the I-SPY 2 TRIAL in breast cancer.** Denise M. Wolf, San Francisco, CA

Room 271, Morial Convention Center

Endocrinology

Molecular Pharmacology of Hormone-dependent Malignancies

Co-Chairpersons: Matthew J. Ellis, Houston, TX; Suzanne A.W. Fuqua, Houston, TX

4:15 p.m. Introduction

4:20 p.m. **860 ESR1 coregulator binding inhibitor (ECBI): a novel agent for treating hormone therapy-resistant breast cancer.** Ratna K. Vadlamudi, San Antonio, TX

4:35 p.m. **861 Global transcription factor repression by the coactivator SRC-1 mediates disease progression in endocrine-resistant breast cancer.** Damir Vareslija, Dublin, Ireland

4:50 p.m. **862 WNT4 mediates endocrine response and resistance in invasive lobular carcinoma cell lines and patient tumor explants.** Matthew J. Sikora, Pittsburgh, PA

- 5:05 p.m. 863 Differential activity and SERD sensitivity of clinical ESR1 mutations.** Weiyi Toy, New York, NY
- 5:20 p.m. 864 Androgen receptor stability in prostate cancer is regulated by the cochaperone Bag-1L.** Laura Cato, Boston, MA
- 5:35 p.m. 865 Isolation of WDR77-mediated interaction between androgen receptor and p53 uncovers novel treatment strategy for prostate cancer.** Sangeeta Kumari, Cleveland, OH
- 5:50 p.m. 866 Delineation of novel CYP24A1 transcriptional regulators.** Wei Luo, Buffalo, NY

Room 265, Morial Convention Center

Experimental and Molecular Therapeutics

Antibody-targeted Therapy

Co-Chairpersons: Peter D. Senter, Bothell, WA; Mark X. Sliwkowski, South San Francisco, CA

4:15 p.m. Introduction

- 4:20 p.m. 867 ABT-165 is a first-in-class therapeutic Dual Variable Domain Immunoglobulin (DVD-IgTM) that targets DLL4 and VEGF for the treatment of cancer.** Yingchun Li, North Chicago, IL
- 4:35 p.m. 868 Creating a superior, site-specific anti-HER2 antibody-drug conjugate (NG-HER2 ADC) for treatment of solid tumors.** Bitha Narayanan, Pearl River, NY
- 4:50 p.m. 869 Meditope enablement and structural analysis of anti-CD33 antibodies.** Calin D. Dumitru, San Diego, CA
- 5:05 p.m. 870 Derivation and characterization of antibodies from immune checkpoint blockade treated cancer patients.** Mark Branum, Seattle, WA
- 5:20 p.m. 871 Nanoliposomal targeting of ephrin receptor A2 (EphA2): Preclinical in vitro and in vivo rationale.** Walid S. Kamoun, Cambridge, MA **(not eligible for CME credit)**
- 5:35 p.m. 872 In vivo activity of a novel CDH6 targeting antibody-drug conjugate, including population-scale ovarian PDX clinical trial.** Carl U. Bialucha, Cambridge, MA
- 5:50 p.m. 873 A novel MET-EGFR bispecific antibody LY3164530 shows advantage over combining MET and EGFR antibodies in tumor inhibition and overcome resistance.** Ling Liu, Indianapolis, IN

Room 293, Morial Convention Center

Experimental and Molecular Therapeutics

Approaches to Elucidating and Overcoming Drug Resistance

Co-Chairpersons: Ashani T. Weeraratna, Philadelphia, PA; Amaya Viros, Manchester, United Kingdom

- 4:15 p.m. Introduction**
- 4:20 p.m. 874 Circadian/melatonin disruption by dim light at night drives paclitaxel resistance in breast cancer via activation of stat3.** Steven M. Hill, New Orleans, LA
- 4:35 p.m. 875 Acquisition of chemoresistance in tumor cells requires crosstalk between dying and remnant live tumor cells via HMGB1.** Junmin Zhou, Tampa, FL
- 4:50 p.m. 876 Genome-scale genetic knockout screen identifies modifiers of EGFR dependence in non-small cell lung cancer cells.** Jon DiMaina, Charleston, SC
- 5:05 p.m. 877 Evolution of resistance to EGFR inhibition from drug tolerant cancer cells.** Aaron N. Hata, Boston, MA
- 5:20 p.m. 878 Tumor heterogeneity and lesion-specific response to targeted therapy in colorectal cancer.** Mariangela Russo, Turin, Italy
- 5:35 p.m. 879 Single cell analysis resolves combinatory targeted therapy for arresting the BRAFi-induced cellular dedifferentiation of metastatic melanomas.** Yapeng Su, Pasadena, CA
- 5:50 p.m. 880 Mapping the metastatic colorectal cancer phospho-proteome for predicting response to cetuximab.** Robin Beekhof, Amsterdam, The Netherlands

Room 343, Morial Convention Center

Molecular and Cellular Biology/Genetics

Disordered Gene Regulation and Chromatin State in Malignant Transformation

Co-Chairpersons: Omar I. Abdel-Wahab, New York, NY; Charles Lin, Houston, TX

- 4:15 p.m. Introduction**
- 4:20 p.m. 881 Dissecting chromatin dynamics in malignant progression.** Hanseul Yang, New York, NY
- 4:35 p.m. 882 TMPRSS2-ERG drives global mistargeting of mammalian SWI/SNF (BAF) complexes in prostate cancer.** Gabriel J. Sandoval, Boston, MA
- 4:50 p.m. 883 NUP98-fusion proteins interact with the NSL/MLL1 complexes to drive leukemogenesis.** Haiming Xu, New York, NY
- 5:05 p.m. 884 NSD3-short is an adaptor protein that couples BRD4 to the CHD8 chromatin remodeler.** Chen Shen, Cold Spring Harbor, NY

- 5:20 p.m. 885 Epigenetic regulation of estrogen receptor transcription by the PI3K pathway in breast cancer.** Toska Eneida, New York, NY
- 5:35 p.m. 886 Notch signaling activates B-cell specific enhancers to drive oncogene targets in B-cell lymphoma.** Russell J. Ryan, Boston, MA
- 5:50 p.m. 887 N-Myc drives neuroendocrine prostate cancer.** David S. Rickman, New York, NY

Room 260, Morial Convention Center

Molecular and Cellular Biology/Genetics

Oncogene and Tumor Suppressor Function and Targeting

Chairperson: Adolfo Ferrando, New York, NY; Michael M. Shen, New York, NY

- 4:15 p.m. Introduction**
- 4:20 p.m. 888 Inactivation of the DLC1 RhoGAP tumor suppressor by point mutation occurs commonly in human cancer and can result from Rho-dependent or Rho-independent mechanisms.** Douglas R. Lowy, Bethesda, MD
- 4:35 p.m. 889 Dissecting the role of MYC in BRCA1-associated breast cancer.** Chiara S. Brambillasca, Amsterdam, The Netherlands
- 4:50 p.m. 890 TGF β upregulation mediates growth retardation in EGFR T790M mutant non-small cell lung cancer.** Pinar O. Eser, Boston, MA
- 5:05 p.m. 891 Dual defects of MDM2/MDMX-p53 pathways cause global metabolic disruption and enhance tumorigenesis.** Hua Lu, New Orleans, LA
- 5:20 p.m. 892 Functional characterization of EIF1AX mutations in thyroid cancer predicts for gain of function by increasing translational rate with concomitant derepression of upstream inputs from mTOR.** Gnana P. Krishnamoorthy, New York, NY
- 5:35 p.m. 893 Diffuse gastric adenocarcinoma often harbors *KMT2C* mutations resulting in malignant phenotypes and worse overall survival.** Changhwan Yoon, New York, NY
- 5:50 p.m. 894 Discovery of YAP-TEAD protein-protein interaction (PPI) inhibitors for cancer therapy.** Claudia Fromond, Daix, France

Room 288, Morial Convention Center

Prevention Research

Highlights in Cancer Prevention Advances

Co-Chairpersons: Avrum E. Spira, Boston, MA; Norman E. Sharpless, Chapel Hill, NC

- 4:15 p.m. Introduction**
- 4:20 p.m. 895 Genomic characterization of premalignant lung squamous cell carcinoma lesions.** Joshua D. Campbell, Cambridge, MA
- 4:35 p.m. 896 The airway field of injury reflects gene expression changes associated with the presence of lung squamous premalignant lesions.** Sarah A. Mazzilli, Boston, MA
- 4:50 p.m. 897 Methionine restriction alters functional polarization of macrophages in a murine model of prostate cancer.** Ashley Orillion, Indianapolis, IN
- 5:05 p.m. 898 Obesity-induced inflammation and desmoplasia promote pancreatic cancer progression and resistance to chemotherapy.** Joao Incio, Boston, MA
- 5:20 p.m. 899 Cancer protection associated with dietary methyl donor deficiency is characterized by persistent changes to epithelial proliferation and metabolism.** Matthew P. Hanley, Farmington, CT
- 5:35 p.m. 900 *In vivo* modeling of *NRAS*-mutant melanoma reveals differential preventative efficacy amongst SPF30 sunscreens.** Andrea M. Holderbaum, Columbus, OH
- 5:50 p.m. 901 Transgenerational inheritance of increased mammary cancer risk in the offspring of high fat diet fed dams: Changes in oxidative stress pathways.** Nguyen M. Nguyen, Washington, DC

New Orleans Theater A, Morial Convention Center

Tumor Biology

Immunomodulation in Cancer

Chairperson: Samir N. Khleif, Augusta, GA; Angel Porgador, Beer-Sheva, Israel

- 4:15 p.m. Introduction**
- 4:20 p.m. 902 A small molecule glycomimetic antagonist of E-selectin and CXCR4 (GMI-1359) delays pancreatic tumor metastasis and significantly alters the pancreatic tumor microenvironment.** Maria M. Steele, Omaha, NE
- 4:35 p.m. 903 IFN- γ induced PD-L1 on tumor and host cells co-operatively prevents tumor immune elimination after cancer immunoediting.** Takuro Noguchi, St. Louis, MO
- 4:50 p.m. 904 Heterozygous ATG7 inhibition enhances endocrine therapy responsiveness through regulation of damage associated molecular patterns and priming the immune system in ER+ breast tumors.** Katherine L. Cook, Winston-Salem, NC

- 5:05 p.m. 905 Pterostilbene (PTER) suppresses breast cancer brain metastasis by targeting a c-Met mediated inflammation network.** Fei Xing, Winston-Salem, NC
- 5:20 p.m. 906 Exosomes from mutant TP53 cancer cells polarize tumor associated macrophages.** Tomer Cooks, Bethesda, MD
- 5:35 p.m. 907 Brain microenvironment induced PTEN loss by microRNAs promotes brain metastasis.** Lin Zhang, Houston, TX
- 5:50 p.m. 908 Immune regulation of tumor dormancy in syngeneic mouse model.** Raziye Piranlioglu, Augusta, GA

Room 393, Morial Convention Center

Tumor Biology

The Relevance of Stemness Properties in Cancer

Co-Chairpersons: John E. Dick, Toronto, ON, Canada; Tannishtha Reya, La Jolla, CA

- 4:15 p.m. Introduction**
- 4:20 p.m. 909 How glioma stem cells maintain stemness outside their niche.** Jian Hu, Houston, TX
- 4:35 p.m. 910 Genetic subclone heterogeneity of the human colon cancer initiating cell compartment.** Klara M. Giessler, Heidelberg, Germany
- 4:50 p.m. 911 BRM loss promotes tumor progression through extracellular matrix remodeling and elevated mammary epithelial stem/progenitor activity.** Jason J. Northey, San Francisco, CA
- 5:05 p.m. 912 Mist1+ secretory progenitor cells can give rise to cancer in the intestine and colon.** Hayakawa Yoku, New York, NY
- 5:20 p.m. 913 Novel leukemia stem cell-targeted therapy for acute myeloid leukemia based on dual inhibition of EZH1/EZH2.** Shuhei Fujita, Tokyo, Japan
- 5:35 p.m. 914 Sox10 regulates stem- and mesenchymal-like features in mammary cells.** Christopher Dravis, La Jolla, CA
- 5:50 p.m. 915 RNA processing signatures of normal versus malignant progenitor cell aging predict leukemia stem cell sensitivity to RNA splicing modulation.** Leslie A. Crews, La Jolla, CA

▲ A CANCER DIALOGUE • 4:30 p.m.-6:00 p.m.

Room 388, Morial Convention Center

Maximizing Cancer Cures: How Do We Get There?

Panelists: Sandra J. Horning, San Francisco, CA
William G. Kaelin, Boston, MA
Richard Pazdur, Silver Spring, MD

Additional panelists to be announced.

▲ NCI/NIH-SPONSORED SESSION • 5:30 p.m.-6:15 p.m.

Room 352, Morial Convention Center

The NCI PREVENT Cancer Preclinical Drug Development Program (not eligible for CME credit)

Speaker: Robert H. Shoemaker, Bethesda, MD

▲ TOWN MEETING • 6:00 p.m.–8:00 p.m.

Mardi Gras Ballroom D-E, New Orleans Marriott

Tumor Microenvironment Working Group (TME)

Town Hall Meeting and Reception

(not eligible for CME credit)

- 6:00 p.m.** **Chairperson: Opening remarks.** Morag Park, Montréal, QC, Canada
- 6:15 p.m.** **Chairperson-elect: Remarks.** Johanna A. Joyce, Lausanne, Switzerland
- 6:30 p.m.** **Reciprocal interactions between the cancer cell and the tumor microenvironment during metastasis.** Andrew J. Ewald, Baltimore, MD
- 6:50 p.m.** **Heterogeneity of innate immune cell behavior and function in primary and metastatic tumors revealed by intravital imaging.** Mikala Egeblad, Cold Spring Harbor, NY
- 7:10 p.m.** **Heterotypic tumor-stroma cell-cell contacts: A new mechanism of crosstalk.** Erik Sahai, London, United Kingdom
- 7:30 p.m.** **Closing remarks.** Johanna A. Joyce, Lausanne, Switzerland

▲ SPECIAL SESSION • 6:30 p.m.–8:00 p.m.

New Orleans Theater Foyer, Morial Convention Center

Networking Hubs

(not eligible for CME credit)

Networking Hub: Epigenetics

Shelley L. Berger, Philadelphia, PA
Tomasz Cierpicki, Ann Arbor, MI
Nada Jabado, Montréal, QC, Canada
Cigall Kadoch, Boston, MA
Ross L. Levine, New York, NY
Ari M. Melnick, New York, NY
Udo Oppermann, Oxford, United Kingdom
Charles W.M. Roberts, Memphis, TN
Kimberly Stegmaier, Boston, MA

Networking Hub: Metabolism

Lewis C. Cantley, New York, NY
Ralph J. DeBerardinis, Dallas, TX
Robert N. Eisenman, Seattle, WA
Eyal Gottlieb, Glasgow, United Kingdom
Reuben J. Shaw, La Jolla, CA
Matthew G. Vander Heiden, Cambridge, MA
Katharine Yen, Cambridge, MA

Networking Hub: Genomics and Precision Medicine

Michael Berger, New York, NY
Malachi Griffith, St. Louis, MO
Mignon L. Loh, San Francisco, CA
Louis M. Staudt, Bethesda, MD

Networking Hub: Tumor Heterogeneity and Therapeutic Resistance

Alberto Bardelli, Candiolo, Italy
Caroline Dive, Manchester, United Kingdom
Jeffrey A. Engelman, Boston, MA
William C. Hahn, Boston, MA
Anthony G. Letai, Boston, MA
Dana Pe'er, New York, NY
Aviv Regev, Cambridge, MA
Charles Swanton, London, United Kingdom

▲ TOWN MEETING • 6:30 p.m.–8:00 p.m.

Room 278, Morial Convention Center

**Chemistry in Cancer Research Working Group (CICR)
Town Hall Meeting and Reception**

(not eligible for CME credit)

- 6:30 p.m.** **Opening remarks: CICR Chairperson.** David E. Uehling, Toronto, ON, Canada
- 6:40 p.m.** **Remarks: CICR Chairperson-elect.** Steven K. Davidsen, Libertyville, IL
- 6:50 p.m.** **Update from the CICR quarterly newsletter editor.** Klaus Pors, Bradford, United Kingdom
- 7:00 p.m.** **Discussion of member issues and closing remarks.** Steven K. Davidsen, Libertyville, IL

▲ TOWN MEETING • 6:30 p.m.–9:00 p.m.

Grand Salon B, Hilton New Orleans Riverside

AACR Pediatric Cancer Working Group Town Hall Meeting and Networking Reception

(not eligible for CME credit)

Chairperson: Garrett M. Brodeur, Philadelphia, PA

Panel discussion: Issues surrounding pediatric cancer drug development and access

Panelists: Peter C. Adamson, Philadelphia, PA
Samuel C. Blackman, Seattle, WA
Nancy Goodman, Washington, DC
Lee J. Helman, Bethesda, MD
Donna Ludwinski, New York, NY
Crystal L. Mackall, Palo Alto, CA
Raphaël F. Rousseau, South San Francisco, CA

▲ MEET-THE-EXPERT SESSIONS • 7:00 a.m.–8:00 a.m.

Room 391, Morial Convention Center

Assessing Hereditary Cancer Risk in Adults

Judy E. Garber, Boston, MA

Room 354, Morial Convention Center

Checkpoint Signaling and Targeting in Cancer Cells

Helen M. Piwnica-Worms, Houston, TX

Room 265, Morial Convention Center

Converting Pancreatic Cancer into an Immunologic Disease

Elizabeth M. Jaffee, Baltimore, MD

Room 243, Morial Convention Center

Drugging the “Undruggable” RAS Oncogene: Reality or Reality Distortion?

Channing J. Der, Chapel Hill, NC

Room 260, Morial Convention Center

Genetic Predisposition to Childhood Malignancies

David Malkin, Toronto, ON, Canada

Room 393, Morial Convention Center

Immune Checkpoint Blockade in Cancer Therapy

James P. Allison, Houston, TX

Room 275, Morial Convention Center

Precision Oncology: Opportunities and Challenges

John D. Carpten, Los Angeles, CA

Room 288, Morial Convention Center

Real-time Metabolic and Molecular Imaging of Cancer Systems by Hyperpolarization

Pratip Bhattacharya, Houston, TX

Room 343, Morial Convention Center

Tackling the Off-Target Problem in Cancer Biology and Cancer Pharmacology

William G. Kaelin, Boston, MA

Room 291, Morial Convention Center

Modulation of Colorectal Cancer by Inflammation

John M. Carethers, Ann Arbor, MI

Room 271, Morial Convention Center

Where Next for Melanoma Genetics?

David J. Adams, Cambridge, United Kingdom

POSTER SESSIONS • 8:00 a.m.–12:00 p.m. Exhibit Halls G-J **(not eligible for CME credit)**

Complete titles and author listings for abstracts in the poster sessions are available in the online Itinerary Planner, the Annual Meeting App (available at www.AACR.org/AACR2016), and in the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

Molecular and Cellular Biology/Genetics

- Section 1 Cell-Cell Interaction and Tumor Microenvironment
- Section 2 Circulating RNAs, Epigenetics, and Novel Non-coding RNAs in Cancer
- Section 3 LncRNAs and Mechanisms in Cancer
- Section 4 Metabolic Reprogramming and Autophagy
- Section 5 Metabolic Reprogramming in Cancer
- Section 6 MicroRNAs as Biomarkers and Therapeutics
- Section 7 MicroRNAs as Oncogenes and Tumor Suppressors
- Section 8 Oncogene Function, Regulation, and Targeting
- Section 9 Oncogenes and Tumor Suppressor Genes and Pathways

Clinical Trials

- Section 13 Phase I Clinical Trials in Progress

Experimental and Molecular Therapeutics

- Section 11 Late-Breaking Research: Experimental and Molecular Therapeutics 1
- Section 14 Differentiation Therapy
- Section 15 Growth Factor Receptors and Surface Antigens as Therapeutic Targets
- Section 16 Novel Antitumor Agents and Epigenetics
- Section 17 Novel Molecular Targets
- Section 18 Regulation of Anticancer Drug Effects

Cancer Chemistry

- Section 19 Drug Delivery 1
- Section 20 Drug Delivery 2

Clinical Research

- Section 12 Late-Breaking Research: Clinical Research 1
- Section 21 Clinical Assay Development
- Section 22 Immune Response Monitoring: Clinical
- Section 23 Special Populations, Supportive Care, and Survivorship Research

Immunology

- Section 10 Late-Breaking Research: Immunology 1
- Section 24 Immune Microenvironment and Antitumor Immunity
- Section 25 Immune Modulating Agents and Therapeutic Antibodies

Scientist↔Survivor Program

- Section 26 Advocates Poster Session 1

Bioinformatics and Systems Biology

- Section 27 Applications of Bioinformatic Tools to Analyze Cancer Data

Tumor Biology

- Section 28 Biomarkers and Profiling of Metastasis
- Section 29 Cellular and Molecular Mediators of Metastasis
- Section 30 Epithelial-Mesenchymal Transition in Metastasis
- Section 31 Metastasis-Promoting and -Suppressing Genes
- Section 32 Radiation Science
- Section 33 Regulators of Epithelial-Mesenchymal Transition and Metastasis
- Section 34 Stemness Properties of Intestinal, Pancreatic, and Hepatic Cancer

Epidemiology

- Section 35 Diet, Tobacco, Smoking, and Other Lifestyle Factors in Cancer Epidemiology
Section 36 Race/Ethnicity and Disparities in Diagnosis, Treatment, and Outcomes

Prevention Research

- Section 37 Prevention Clinical Research

▲ PLENARY SESSION • 8:15 a.m.–10:15 a.m.

Hall F, Morial Convention Center

Metabolic Reprogramming in Cancer

Chairperson: Craig B. Thompson, New York, NY

- 8:15 a.m.** **Isogenic tumors can utilize heterogeneous mechanisms of nutrient uptake.**
Craig B. Thompson, New York, NY [PL02-01]*
- 8:45 a.m.** **Transcriptional regulation by the MAX-like protein MLX is required for adaptive metabolic responses in development and tumorigenesis.**
Robert N. Eisenman, Seattle, WA [PL02-02]*
- 9:15 a.m.** **Targeted inhibition of IDHm in cancer.** Katharine Yen, Cambridge, MA
(not eligible for CME credit)
- 9:45 a.m.** **Nutrient sensing pathways in cancer.** David M. Sabatini, Cambridge, MA

MONDAY

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

▲ PROFESSIONAL ADVANCEMENT SESSION 8:15 a.m.–10:15 a.m.

Grand Salon A, Hilton New Orleans Riverside

WICR Career Mentoring Session

**Organized by the Women in Cancer Research (WICR) Council
(not eligible for CME credit)**

Co-Chairpersons: Lucile L. Adams-Campbell, Washington, DC; Kornelia Polyak, Boston, MA

8:20 a.m. Keynote address. Michelle M. Le Beau, Chicago, IL

8:40 a.m. Roundtable discussion 1

9:25 a.m. Roundtable discussion 2

Roundtable Topics

Grant writing. Kornelia Polyak, Boston, MA; Eva Szabo, Bethesda, MD

Careers in academia. Lucile L. Adams-Campbell, Washington, DC

Careers in industry. J. Carl Barrett, Waltham, MA; Pamela Carroll, Boston, MA

Starting a translational research career. Susan M. Galbraith, Macclesfield, United Kingdom

Careers in academia. Varsha Gandhi, Houston, TX

How to write a good grant. Nancy E. Hynes, Basel, Switzerland

How to stand out on a job application. Emma M. Lees, Cambridge, MA

Balancing research and clinical practice. Patricia M. LoRusso, New Haven, CT

Choosing a postdoctoral position. Beverly D. Lyn-Cook, Jefferson, AR

Negotiations for jobs, salaries, and promotions. Charles A. Omer, Waltham, MA

Oral presentations. Morag Park, Montréal, QC, Canada

Alternative careers. Louise M. Perkins, Washington, DC

Interview skills. Cynthia Seidel-Dugan, Cambridge, MA

Oral presentations. Thea D. Tlsty, San Francisco, CA

Mentoring and supervising. Elizabeth L. Travis, Houston, TX

How to transition to independence. Donald L. Trump, Falls Church, VA

Building a laboratory. Danny R. Welch, Kansas City, KS; Angelique Whitehurst, Dallas, TX

Marketing yourself for jobs, promotion, and recognition. Jonathan S. Wiest, Bethesda, MD

10:10 a.m. Closing remarks

▲ FORUM • 9:30 a.m.–11:15 a.m.

Room 239, Morial Convention Center

Minorities in Cancer Research Forum: Careers Beyond Academia

(not eligible for CME credit)

Co-Chairpersons: John H. Stewart IV, Durham, NC; Coleman K. Obasaju, Indianapolis, IN

Moderator: Coleman K. Obasaju, Indianapolis, IN

9:30 a.m. Overview of the opportunities and trends in laboratory and non-laboratory careers. John H. Stewart IV, Durham, NC

9:50 a.m. Careers in government. Sanya A. Springfield, Bethesda, MD

10:10 a.m. Careers in pharmacy and biotech. Jennifer Harris, Whitehouse Station, NJ

10:30 a.m. Careers in academia away from the bench. John Christie, New Orleans, LA

10:50 a.m. Panel discussion.

▲ MEET AND GREET • 10:00 a.m.–11:00 a.m.

AACR Publications Booth (2030), Exhibit Halls G-J

Meet the Editor-in-Chief of *Cancer Epidemiology, Biomarkers & Prevention*

(not eligible for CME credit)

Timothy R. Rebbeck, Boston, MA

▲ MEET AND GREET • 10:30 a.m.–11:15 a.m.

AACRcentral Amphitheater

Meet the AACR Foundation: Executive Director and Board of Trustees

(not eligible for CME credit)

▲ MAJOR SYMPOSIA • 10:30 a.m.–12:15 p.m.

New Orleans Theater C, Morial Convention Center

Addressing the Mechanisms of Resistance and Lack of Response in Cancer Immunotherapy

Chairperson: Ira Mellman, South San Francisco, CA

10:30 a.m. Introduction

10:40 a.m. **The tumor immunity continuum as a framework for rational combinations.**

Priti S. Hegde, South San Francisco, CA [SY09-01]*

11:10 a.m. **Combinations using checkpoint blockade as one means to address resistance.** Jedd D. Wolchok, New York, NY

11:40 a.m. **In vivo discovery of novel targets for cancer immunotherapy.**

Kai Wucherpfennig, Boston, MA

New Orleans Theater B, Morial Convention Center

CRISPR in Drug Discovery

Chairperson: David M. Sabatini, Cambridge, MA

10:30 a.m. Introduction

10:40 a.m. **Genetic screens in human cells for studying cancer.** David M. Sabatini, Cambridge, MA

11:10 a.m. **Mapping functional protein domains using CRISPR-Cas9 screening and scanning.** Christopher R. Vakoc, Cold Spring Harbor, NY

11:40 a.m. **Systematic search for synthetic lethal susceptibilities with CRISPRi and CRISPRa.** Jonathan Weissman, San Francisco, CA

Room 343, Morial Convention Center

Exploiting Metabolic Vulnerabilities to Treat Cancer

Chairperson: Reuben J. Shaw, La Jolla, CA

10:30 a.m. Introduction

10:40 a.m. **PI3-kinase and cancer metabolism.** Lewis C. Cantley, New York, NY [SY12-01]*

11:10 a.m. **Targeting metabolic liabilities in NSCLC.** Reuben J. Shaw, La Jolla, CA

11:40 a.m. **MYC-mediated metabolic vulnerabilities and the circadian clock.** Chi Van Dang, Philadelphia, PA [SY12-03]*

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

Room 243, Morial Convention Center

Genome Integrity, Aneuploidy, and Cancer

Chairperson: Agata Smogorzewska, New York, NY

10:30 a.m. Introduction

10:40 a.m. Mechanisms of the ATR-dependent replication stress response. David Cortez, Nashville, TN

11:10 a.m. The role of DNA interstrand crosslink repair in tumor suppression. Agata Smogorzewska, New York, NY

11:40 a.m. How aneuploidy drives cancer. Stephen J. Elledge, Boston, MA [SY10-01]*

Room 354, Morial Convention Center

Mechanisms and Models of Premalignancy

Chairperson: Cory Abate-Shen, New York, NY

10:30 a.m. Introduction

10:40 a.m. Mechanistic and systems approaches to study malignant prostate cancer at early stages. Cory Abate-Shen, New York, NY

11:10 a.m. Intra-lesion genetic heterogeneity and clonal dynamics in breast cancer preinvasive lesions. Jorge S. Reis-Filho, New York, NY

11:40 a.m. Airway genomics as a window into early molecular events associated with lung carcinogenesis. Avrum E. Spira, Boston, MA

New Orleans Theater A, Morial Convention Center

Progress in Treating KRas Mutated Tumors

Chairperson: Frank McCormick, San Francisco, CA

10:30 a.m. Introduction

10:40 a.m. Targeting KRas stemness. Frank McCormick, San Francisco, CA

11:10 a.m. Chemically addressable subtypes of KRas lung cancer. Michael A. White, Dallas, TX

11:40 a.m. Direct drug targeting of KRas. Kevan M. Shokat, San Francisco, CA

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

Room 265, Morial Convention Center

Targeted Approaches for Cancers with Quiet Genomes

Chairperson: Charles W.M. Roberts, Memphis, TN

- 10:30 a.m. Introduction**
- 10:40 a.m. SWI/SNF (BAF) complex mutations in cancer: Mechanisms and vulnerabilities.** Charles W.M. Roberts, Memphis, TN
- 11:10 a.m. Identification of novel oncogenic mechanisms in brain tumors with quiet genomes through mapping the enhancer landscape.** Stefan M. Pfister, Heidelberg, Germany [SY15-02]*
- 11:40 a.m. Drugging “undruggable” transcription factor drivers in cancer.** John Bushweller, Charlottesville, VA [SY15-03]*

Room 393, Morial Convention Center

AACR-Stanley J. Korsmeyer Memorial Symposium: BCL-2 Family Inhibitors

Chairperson: Douglas R. Green, Memphis, TN

- 10:30 a.m. Introduction**
- 10:40 a.m. Optimizing BH3 mimetic therapy: Insights from BCL2 inhibition in the clinic.** Andrew Roberts, Parkville, Australia [SY16-01]*
- 11:10 a.m. The discovery of Mcl-1 inhibitors using fragment-based methods and structure-based design.** Stephen W. Fesik, Nashville, TN [SY16-02]*
- 11:40 a.m. Targeting Bcl-2 as a therapeutic strategy and predictive biomarker in CLL.** Matthew S. Davids, Boston, MA [SY16-03]*

▲ RECENT ADVANCES IN DIAGNOSTICS AND THERAPEUTICS RESEARCH • 10:30 a.m.-12:15 p.m.

Room 291, Morial Convention Center

Drugging the Cell Cycle

Chairperson: Norman E. Sharpless, Chapel Hill, NC

- 10:30 a.m. Mechanisms of action of the CDK4 and CDK6 inhibitor abemaciclib: Single-agent and combination activities in preclinical models for human cancer.** Richard Beckmann, Indianapolis, IN
- 11:00 a.m. Mitosis-independent actions of anti-microtubule drugs.** Timothy J. Mitchison, Boston, MA
- 11:30 a.m. Use of the WEE1 inhibitor AZD1775 to exploit replication stress in cancers.** Mark J. O'Connor, Cheshire, United Kingdom

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

Room 260, Morial Convention Center

Realizing Precision Medicine in Pediatric Oncology

Chairperson: Mignon L. Loh, San Francisco, CA

- 10:30 a.m.** **Improving outcomes for patients with neuroblastoma via rational development of novel therapeutic strategies.** Yael P. Mosse, Philadelphia, PA
- 11:00 a.m.** **Exomes and beyond: Clinical sequencing for pediatric solid tumor patients.** D. William Parsons, Houston, TX
- 11:30 a.m.** **Translating genomic discoveries into therapy for acute lymphoblastic leukemia.** Mignon L. Loh, San Francisco, CA

▲ RECENT ADVANCES IN ORGAN SITE RESEARCH 10:30 a.m.-12:15 p.m.

Room 288, Morial Convention Center

Genomic Insights Into Lymphoma Pathogenesis, Diagnosis, and Treatment

Chairperson: Louis M. Staudt, Bethesda, MD

- 10:30 a.m.** **New oncogenic pathways in diffuse large B-cell lymphoma.** Riccardo Dalla-Favera, New York, NY
- 11:00 a.m.** **Therapy of lymphoma inspired by functional and structural genomics.** Louis M. Staudt, Bethesda, MD
- 11:30 a.m.** **Noninvasive lymphoma genotyping and personalized monitoring using circulating DNA.** Ash A. Alizadeh, Stanford, CA

Room 271, Morial Convention Center

Dharma Master Jiantai Recent Advances in Lung Cancer Session: Novel Therapies in Non-Small Cell Lung Cancer

Chairperson: Jean-Charles Soria, Villejuif, France

- 10:30 a.m.** **Murine models to define optimal therapies in NSCLC.** Kwok-Kin Wong, Boston, MA
- 11:00 a.m.** **Can we identify new targets for NSCLC in tumor samples?** A. John Iafrate, Boston, MA
- 11:30 a.m.** **Precision medicine trials in NSCLC encompassing novel therapies.** Jean-Charles Soria, Villejuif, France

Room 293, Morial Convention Center

Targeting Stromal Fibroblasts in Pancreatic Cancer: Controversy or Consensus?

Chairperson: David A. Tuveson, Cold Spring Harbor, NY

- 10:30 a.m.** **Modeling the pancreatic cancer stroma.** David A. Tuveson, Cold Spring Harbor, NY
- 11:00 a.m.** **Functional heterogeneity of stromal response in cancer.** Raghu Kalluri, Houston, TX
- 11:30 a.m.** **Controlling stroma to corral cancer.** Ronald M. Evans, La Jolla, CA

▲ CLINICAL TRIALS PLENARY SESSION 3 • 10:30 a.m.-12:30 p.m.

La Nouvelle Ballroom, Morial Convention Center

Transformative Clinical Trials in Breast Cancer

Chairperson and discussants to be announced

- CT039** **Primary analysis of the EORTC 10041/ BIG 3-04 MINDACT study: A prospective, randomized study evaluating the clinical utility of the 70-gene signature (MammaPrint) combined with common clinical-pathological criteria for selection of patients for adjuvant chemotherapy in breast cancer with 0 to 3 positive nodes.** Martine Piccart, Brussels, Belgium
- CT041** **Anti-proliferative response and predictive biomarkers to palbociclib in early breast cancer: The Preoperative Palbociclib (POP) randomized trial.** Fabrice Andre, Villejuif, France
- CT042** **T-DM1+pertuzumab versus standard therapy for HER2+ breast cancer: Results from the neoadjuvant I-SPY 2 TRIAL.** Angela M. DeMichele, Philadelphia, PA
- CT043** **Low-fat dietary pattern and breast cancer mortality in the Women's Health Initiative (WHI) randomized trial.** Rowan T. Chlebowski, Rancho Palos Verdes, CA

▲ NCI/NIH-SPONSORED SESSION • 10:30 a.m.–12:30 p.m.

Room 352, Morial Convention Center

**Fellowships, Career Development Awards, and
Transitioning to Independence Awards**
(not eligible for CME credit)

Chairperson. Ming Lei, Rockville, MD

Speakers: Jonathan S. Wiest, Bethesda, MD
Jeannette F. Korczak, Rockville, MD
Michele McGuirl, Bethesda, MD
Michael K. Schmidt, Rockville, MD

▲ PROFESSIONAL ADVANCEMENT SESSION
10:30 a.m.–12:30 p.m.

Room 278, Morial Convention Center

Leadership in Cancer Research: Essential Strategies and Skills for Success
Organized by the Associate Member Council (AMC)
(not eligible for CME credit)

Foundations of leadership. Michael A. Caligiuri, Columbus, OH

Leading collaboration in cancer research. Stephen B. Baylin, Baltimore, MD

Leading change. Carol L. Prives, New York, NY

Learning in action: Putting leadership skills to the test.

▲ REGULATORY SCIENCE AND POLICY SESSIONS 10:30 a.m.–12:30 p.m.

Room 283, Morial Convention Center

A Conversation with FDA Oncologic Drugs Advisory Committee (ODAC) Chairs

Chairperson: Richard Pazdur, Silver Spring, MD

Speakers: Deborah K. Armstrong, Baltimore, MD

S. Gail Eckhardt, Aurora, CO

Mikkael Sekeres, Cleveland, OH

Wyndham E. Wilson, Bethesda, MD

Room 357, Morial Convention Center

Update on Next Generation Sequencing (NGS) Technologies and the Precision Medicine Initiative (PMI)

Co-Chairpersons: Victor E. Velculescu, Baltimore, MD; Elaine R. Mardis, St. Louis, MO

Speakers: David Litwack, Silver Spring, MD

Michael F. Berger, New York, NY

Girish Putcha, Columbia, SC

Charles L. Sawyers, New York, NY

MONDAY

▲ CAREER CONVERSATIONS • 12:00 p.m.–1:00 p.m.

AACRcentral, Associate Member Resource and Career Center

Clinical Careers for Non-Physicians

Organized by the Associate Member Council (AMC)

(not eligible for CME credit)

Speakers: Mary A. Halloran, Horsham, PA

Eric F. Johnson, North Chicago, IL

▲ SPECIAL SESSION • 12:00 p.m.–1:00 p.m.

AACRcentral Amphitheater

**TME Working Group Networking Event with
Early-Career Researchers: Careers in TME Research**

(not eligible for CME credit)

- 12:00 p.m. Opening remarks: Co-moderators.** Valerie LeBleu, Houston, TX;
Sandra S. McAllister, Boston, MA
- 12:05 p.m. Speakers:**
- Early-career PI.** Cyrus M. Ghajar, Seattle, WA
- Middle or established career level.** Sheila A. Stewart, St. Louis, MO
- Clinical Careers.** Katherine N. Weilbaecher, St. Louis, MO
- Industry.** Shelia M. Violette, Cambridge, MA

▲ SPECIAL SESSION • 12:30 p.m.–2:30 p.m.

Room 243, Morial Convention Center

**SU2C Scientific Session: Translating Advances in
Immunotherapy to Patient Benefit**

(not eligible for CME credit)

Chairperson: Phillip A. Sharp, Cambridge, MA

- 12:30 p.m. Opening remarks from the SU2C Scientific Advisory Committee
Chairperson.** Phillip A. Sharp, Cambridge, MA
- 12:35 p.m. CD22 CAR update and novel mechanisms of leukemic resistance.
SU2C-St. Baldrick's Foundation Pediatric Cancer Dream Team.** Terry J. Fry,
Bethesda, MD
- 12:58 p.m. Epigenetic therapy – Is it one key option for improving the efficacy of
immune checkpoint therapy? Van Andel Research Institute-SU2C Cancer
Epigenetics Dream Team.** Stephen B. Baylin, Baltimore, MD
- 1:21 p.m. Clinical prospect of targeting immune vulnerabilities in pancreatic cancer.
SU2C-Lustgarten Foundation Pancreatic Cancer Convergence Dream Team.**
Robert H. Vonderheide, Philadelphia, PA
- 1:44 p.m. Impact of co-occurring genomic alterations on immune phenotype and PD1
inhibitor resistance in KRAS mutant NSCLC. SU2C-American Cancer Society
Lung Cancer Dream Team.** John V. Heymach, Houston, TX
- 2:07 p.m. Immunologic checkpoint blockade and adoptive cell transfer in cancer
therapy. SU2C-Cancer Research Institute Cancer Immunology Dream Team.**
Drew M. Pardoll, Baltimore, MD

▲ SPECIAL SESSION • 12:45 p.m.–2:00 p.m.

Room 254, Morial Convention Center

AACR Annual Business Meeting of Members

(not eligible for CME credit)

Participants in speaking order: Margaret Foti, Philadelphia, PA
José Baselga, New York, NY
William N. Hait, Raritan, NJ
Carlos L. Arteaga, Nashville, TN
Nancy E. Davidson, Pittsburgh, PA

▲ MAJOR SYMPOSIA • 1:00 p.m.–2:45 p.m.

La Nouvelle Ballroom, Morial Convention Center

Evolution of the Cancer Drug-Resistant State

Chairperson: Levi A. Garraway, Boston, MA

- 1:00 p.m. Introduction**
- 1:10 p.m. Resistance to targeted therapy: Guiding principles and new mechanisms.**
Levi A. Garraway, Boston, MA
- 1:40 p.m. New insights into therapy-resistant states in castration-resistant prostate cancer.** Himisha Beltran, New York, NY
- 2:10 p.m. Dual inhibition of the Abelson kinase in CML suppresses resistant clonal evolution.** William R. Sellers, Cambridge, MA

New Orleans Theater B, Morial Convention Center

Genomics-guided Immunotherapy

Chairperson: Catherine J. Wu, Boston, MA

- 1:00 p.m. Introduction**
- 1:10 p.m. Tumor-host coevolution: Therapeutic implications.** Catherine J. Wu, Boston, MA
- 1:40 p.m. Immunogenomics and precision cancer medicine.** Eliezer Van Allen, Brookline, MA [SY18-02]*
- 2:10 p.m. RNA based individualized cancer immunotherapy.** Ugur Sahin, Mainz, Germany (not eligible for CME credit)

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

Room 260, Morial Convention Center

Imaging Tumor Metabolism

Chairperson: Kevin M. Brindle, Cambridge, United Kingdom

1:00 p.m. Introduction

1:10 p.m. Imaging tumor metabolism with PET. Wolfgang A. Weber, New York, NY

1:40 p.m. Imaging tumor metabolism with hyperpolarized ¹³C-labelled cell substrates. Kevin M. Brindle, Cambridge, United Kingdom

2:10 p.m. Translation of hyperpolarized ¹³C imaging to the clinic. John Kurhanewicz, San Francisco, CA [SY19-03]*

New Orleans Theater C, Morial Convention Center

Microenvironment and Cancer Stemness

Chairperson: Joan Massagué, New York, NY

1:00 p.m. Introduction

1:10 p.m. A stem cell program in metastatic human breast cancer. Zena Werb, San Francisco, CA

1:40 p.m. A stromal gene program that drives metastasis in colorectal cancer. Eduard Batlle, Barcelona, Spain

2:10 p.m. Metastatic latency and immune evasion by cancer stem cells. Joan Massagué, New York, NY [SY20-03]*

Room 293, Morial Convention Center

New Strategies to Maximally Target DNA Repair in Cancer

Chairperson: Elizabeth M. Swisher, Seattle, WA

1:00 p.m. Introduction

1:10 p.m. Novel mechanisms of PARP inhibitor resistance. Alan D. D'Andrea, Boston, MA

1:40 p.m. Mouse models to predict and test novel DNA repair strategies. Clare L. Scott, Parkville, Australia

2:10 p.m. Therapeutic application of PARP inhibitors: Expanding their clinical utility. Elizabeth M. Swisher, Seattle, WA

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

Room 383, Morial Convention Center

Precision Exercise for Treatment of Cancer: A Translational Approach

Chairperson: Lee W. Jones, New York, NY

- 1:00 p.m. Introduction**
- 1:10 p.m. The role of exercise in cancer progression and mortality: Observational and molecular epidemiologic evidence.** Christine M. Friedenreich, Calgary, AB, Canada [SY22-01]*
- 1:40 p.m. Exercise and cancer progression: Preclinical evidence.** Mark W. Dewhirst, Durham, NC [SY22-02]*
- 2:10 p.m. Exercise and cancer progression: Safety and early signal-seeking clinical trials.** Lee W. Jones, New York, NY

New Orleans Theater A, Morial Convention Center

Transcriptional Control in Cancer

Chairperson: Richard A. Young, Cambridge, MA

- 1:00 p.m. Introduction**
- 1:10 p.m. New insights into Myc function.** Gerard I. Evan, Cambridge, United Kingdom
- 1:40 p.m. Mammalian SWI/SNF (BAF) complex structure and function in human cancer.** Cigall Kadoch, Boston, MA
- 2:10 p.m. Transcriptional control and therapy in cancer.** Richard A. Young, Cambridge, MA

MONDAY

▲ RECENT ADVANCES IN DIAGNOSTICS AND THERAPEUTICS RESEARCH • 1:00 p.m.–2:45 p.m.

Room 393, Morial Convention Center

Next-Generation Kinase Inhibitors

Chairperson: Nathanael S. Gray, Boston, MA

- 1:00 p.m. The discovery and development of AZD9291 (osimertinib), a mutant selective EGFR inhibitor.** Andrew A. Mortlock, Macclesfield, United Kingdom (not eligible for CME credit)
- 1:30 p.m. Optimizing kinase inhibitors for BRAF and KIT.** Gideon Bollag, Berkeley, CA
- 2:00 p.m. Discovery of mutant selective allosteric EGFR inhibitors that overcome T790M and C797S-mediated drug resistance.** Michael J. Eck, Boston, MA

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

▲ RECENT ADVANCES IN ORGAN SITE RESEARCH
1:00 p.m.–2:45 p.m.

Room 354, Morial Convention Center

Glioma Reclassification and Evolution

Chairperson: Joseph F. Costello, San Francisco, CA

- 1:00 p.m.** **Frequent driver gene mutations refine the classification of malignant adult gliomas.** Hai Yan, Durham, NC
- 1:30 p.m.** **Targeting signal transduction pathways in glioma.** Ingo K. Mellinghoff, New York, NY
- 2:00 p.m.** **Molecular mechanisms of driver mutations in glioma.** Joseph F. Costello, San Francisco, CA

Room 265, Morial Convention Center

Novel Approaches in Acute Leukemia

Chairperson: Ari M. Melnick, New York, NY

- 1:00 p.m.** **Lessons learned from the AML epigenome.** Ari M. Melnick, New York, NY
- 1:30 p.m.** **Genetic mechanism of relapse and resistance in ALL.** Adolfo Ferrando, New York, NY
- 2:00 p.m.** **Off-target resistance to inhibitors of BCR-ABL and FLT3 in myeloid malignancies.** Neil P. Shah, San Francisco, CA

Room 391, Morial Convention Center

Whither Melanoma in the New-treatments Era

Chairperson: Richard M. Marais, Manchester, United Kingdom

- 1:00 p.m.** **Melanomagenesis: Is prevention better than cure?** Richard M. Marais, Manchester, United Kingdom
- 1:30 p.m.** **Molecular evolution and taxonomy of melanoma.** Boris C. Bastien, San Francisco, CA
- 2:00 p.m.** **Immunobiology of melanoma.** Suzanne L. Topalian, Baltimore, MD

▲ RECENT ADVANCES IN PREVENTION RESEARCH 1:00 p.m.–2:45 p.m.

Room 271, Morial Convention Center

HPV and Cancer

Chairperson: Douglas R. Lowy, Bethesda, MD

1:00 p.m. HPV vaccines: Recent advances and the potential for further progress.
Douglas R. Lowy, Bethesda, MD

1:30 p.m. The future of cervical screening in the vaccine era: HPV testing, typing, and triage. Mark W. Schiffman, Rockville, MD

2:00 p.m. HPV and the host genome. Maura L. Gillison, Columbus, OH

▲ NCI/NIH-SPONSORED SESSION • 1:00 p.m.–3:00 p.m.

Room 352, Morial Convention Center

NCI Center for Strategic Scientific Initiatives (CSSI) Programs and Related NCI Opportunities, Tools, and Resources (not eligible for CME credit)

Co-moderators: Michelle A. Berny-Lang, Bethesda, MD; Mervi A. Heiskanen, Rockville, MD;
Natalie F. Abrams, Bethesda, MD

Speakers: Michelle A. Berny-Lang, Bethesda, MD
Stephanie A. Morris, Rockville, MD
Mervi A. Heiskanen, Rockville, MD
Christopher Kinsinger, Bethesda, MD
Paula M. Jacobs, Bethesda, MD
Melissa D. Antman, Bethesda, MD
Amy Kennedy, Rockville, MD
Natalie F. Abrams, Bethesda, MD

POSTER SESSIONS • 1:00 p.m.-5:00 p.m.

Exhibit Halls G-J

(not eligible for CME credit)

Complete titles and author listings for abstracts in the poster sessions are available in the online Itinerary Planner, the Annual Meeting App (available at www.AACR.org/AACR2016), and in the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

Endocrinology

Section 1 Molecular Endocrinology of Hormone-dependent Malignancies

Regulatory Science and Policy

Section 2 Regulatory Science and Policy

Molecular and Cellular Biology/Genetics

Section 3 Assessment of Gene Regulation in the Malignant Context

Section 4 GTPase, RAF, and Growth Factor Pathways

Section 5 MicroRNAs in Metastasis and Cancer

Section 6 Non-coding RNAs and Mechanisms in Cancer

Section 7 Profiling MicroRNA Expression in Cancer

Section 8 Regulation of Chromatin State and Gene Expression

Section 9 Transcriptional Regulation and Gene Expression

Section 10 Late-Breaking Research: Molecular and Cellular Biology 2

Clinical Trials

Section 13 Phase I Clinical Trials 1

Experimental and Molecular Therapeutics

Section 12 Late-Breaking Research: Experimental and Molecular Therapeutics 2

Section 14 Clinical Pharmacology and Pharmacogenomics

Section 15 Drug Delivery

Section 16 Experimental Therapeutics

Section 17 Mechanisms of Drug Resistance 2

Section 18 New Drugs, Therapeutic Targets, and Treatment Approaches

Cancer Chemistry

- Section 19 High Throughput Screening and Natural Products
Section 20 Nanotechnology and Drug Delivery

Clinical Research

- Section 21 Adoptive Cell Therapy, Immune Checkpoints, and Vaccines
Section 22 Biomarkers for Lung Cancer
Section 23 Mechanisms of Response to Targeted Agents and Potential New Targets

Immunology

- Section 25 Adoptive Cell Therapy
Section 26 Immune Checkpoints 1
Section 27 Therapeutic Antibodies and Vaccines

Tumor Biology

- Section 11 Late-Breaking Research: Tumor Biology 2
Section 28 Clonal Heterogeneity and Evolution
Section 29 Intratumor Heterogeneity and Treatment Responses
Section 30 Pediatric Cancer Genomics, Genetics, and Epigenetics
Section 31 Pediatric Cancer Molecular Pathways
Section 32 Pediatric Cancer Targets, Models, Therapies, and Resistance
Section 33 Stemness Properties and Therapeutic Targeting in Solid Tumors
Section 34 Stemness Properties of Neuronal and Pediatric Tumors and New Approaches

Epidemiology

- Section 35 Genetic Contributions to Cancer Epidemiology: Familial Cancers and GWAS
Section 36 Risk Prediction, Screening, and Comparative Effectiveness Research

Prevention Research

- Section 37 Targets, Markers, and Agents in Cancer Prevention

▲ CAREER CONVERSATIONS • 1:15 p.m.–2:15 p.m.

AACRcentral Amphitheater

Career Paths in Pancreatic Cancer Research

(not eligible for CME credit)

Speakers: Victoria G. Manax, Summit, NJ
Kenneth P. Olive, New York, NY

▲ CAREER CONVERSATIONS • 1:30 p.m.–2:30 p.m.

AACRcentral, Associate Member Resource and Career Center

Getting Your First Academic Position

Organized by the Associate Member Council (AMC)

(not eligible for CME credit)

Speakers: Maximilian Diehn, Stanford, CA
Meredith A. Morgan, Ann Arbor, MI

▲ MEET AND GREET • 2:30 p.m.–3:30 p.m.

AACRcentral Amphitheater

Meet the 2016-2017 AACR President

Nancy E. Davidson, Pittsburgh, PA

▲ NCI ADDRESS • 3:00 p.m.–4:00 p.m.

Room 388, Morial Convention Center

An Update from the NCI's Acting Director

Douglas R. Lowy, Bethesda, MD

▲ MEET AND GREET • 3:00 p.m.–4:30 p.m.

AACRcentral, Associate Member Resource and Career Center

AMC Meet and Greet

(not eligible for CME credit)

Chairperson: Mark D. Stewart, Washington, DC

Chairperson-elect: Diana M. Merino, Chevy Chase, MD

Past chairperson: Michelle Kinder, Spring House, PA

Council members: Ken Dutton-Regester, Boston, MA
Alexandra J. Greenberg, Bethesda, MD
Wenji Guo, Baltimore, MD
Katherine L. Jameson, Nashville, TN
Selena Lin, Santa Monica, CA
Colles O. Price, Boston, MA
Richard L. Price III, St. Louis, MO
Nardin N. Samuel, Markham, ON, Canada
Shane R. Stecklein, Houston, TX
Kekoa A. Taparra, Baltimore, MD

▲ CLINICAL TRIALS MINISYMPOSIUM • 3:00 p.m.-5:00 p.m.

Room 391, Morial Convention Center

Early Clinical Trials of Novel Agents

Chairperson to be announced

- 3:00 p.m.** **CT064** **Treatment for metastatic platinum-resistant urothelial cancer (PRUC) with an anti-Trop-2-SN-38 antibody-drug conjugate (ADC), sacituzumab govitecan (IMMU-132): phase I/II clinical experience.**
Scott T. Tagawa, New York, NY
- 3:15 p.m.** **CT065** **Labetuzumab govitecan (IMMU-130), an anti-CEACAM5/SN-38 antibody-drug conjugate, is active in patients (pts) with heavily pretreated metastatic colorectal cancer (mCRC): phase II results.** Efrat Dotan,
Philadelphia, PA
- 3:30 p.m.** **CT066** **First-in-human phase I trial of the oral PLK4 inhibitor CFI-400945 in patients with advanced solid tumors.** Philippe L. Bedard, Toronto, ON,
Canada

- 3:45 p.m. **CT067 2-hydroxyoleic acid (2-OHOA), a novel activator of sphingomyelin synthase with antitumor activity in refractory glioblastoma: results of the first-in-human dose-escalation (DE) study in patients with advanced solid tumors (AST) and refractory gliomas/glioblastomas.** Juanita S. Lopez, London, United Kingdom
- 4:00 p.m. **CT068 A randomized phase II, double-blind study to evaluate the efficacy and safety of galunisertib+gemcitabine (GG) or gemcitabine+placebo (GP) in patients with unresectable pancreatic cancer (PC).** Davide Melisi, Verona, Italy
- 4:15 p.m. **CT069 Correlative biomarkers of clinical activity of the BCL-2 inhibitor, venetoclax (ABT-199/ GDC-0199), in acute myeloid leukemia patients.** Relja Popovic, North Chicago, IL (not eligible for CME credit)
- 4:30 p.m. **CT070 Biomarker and clinical response of oral cavity squamous cell carcinoma to the MEK 1/2 inhibitor trametinib: A phase II neoadjuvant window of opportunity clinical trial.** Ravindra Uppaluri, St. Louis, MO

 **MAJOR SYMPOSIUM • 3:00 p.m.–5:00 p.m.**

Room 275, Morial Convention Center

AACR-JCA Joint Symposium: Molecular Pathogenesis, Diagnosis, and Treatment of ALK-induced Malignancies

Co-Chairpersons: A. Thomas Look, Boston, MA; Hiroyuki Mano, Tokyo, Japan

- 3:00 p.m. **Insights into the mechanisms of transformation by activated ALK.**
A. Thomas Look, Boston, MA
- 3:30 p.m. **Targeting ALK in pediatric cancers: A new paradigm for drug development.**
Yael P. Mosse, Philadelphia, PA
- 4:00 p.m. **Characteristics of ALK-related pediatric cancers.** Junko Takita, Tokyo, Japan
- 4:30 p.m. **ALKoma: A cancer subtype with a shared target.** Hiroyuki Mano, Tokyo, Japan

▲ MINISYMPOSIA • 3:00 p.m.–5:00 p.m.

Room 260, Morial Convention Center

Clinical Research

Genomic Landscapes

Co-Chairpersons: David Neil Hayes, Chapel Hill, NC; Lillian L. Siu, Toronto, ON, Canada

- 3:00 p.m. Introduction**
- 3:05 p.m. 2627 Molecular analyses of histopathologic morphologic features in breast cancer.** Yu Jing Jan Heng, Boston, MA
- 3:20 p.m. 2628 Molecular diagnosis for pediatric cancer through integrative analysis of whole-genome, whole-exome, and transcriptome sequencing.** Jinghui Zhang, Memphis, TN
- 3:35 p.m. 2629 The landscape of tumor mutation load across the entire spectrum of human cancer derived from 60,000 patients.** Garrett M. Frampton, Cambridge, MA (not eligible for CME credit)
- 3:50 p.m. 2630 Integration of tumor microenvironment and molecular subclassification of colorectal cancer identifies patient subsets with poor prognosis.** Jesper B. Bramsen, Aarhus, Denmark
- 4:05 p.m. 2631 Restrictions on access to systemic therapy limit the application of whole genome sequencing in clinical care.** Janessa J. Laskin, Vancouver, BC, Canada
- 4:20 p.m. 2632 Clinical validation of circulating DNA analysis for the detection of point mutations and of the longitudinal metastatic colorectal patient follow up for detecting emergence of resistance to targeted therapy.** Alain R. Thierry, Montpellier, France
- 4:35 p.m. 2633 Radiogenomics of breast cancer using DCE-MRI and gene expression profiling.** Albert C. Yeh, Chicago, IL

Room 357, Morial Convention Center

Epidemiology

Biomarkers and Other Epidemiologic Factors in Cancer Prognosis

Co-Chairpersons: James R. Cerhan, Rochester, MN; Xiao-Ou Shu, Nashville, TN

- 3:00 p.m. Introduction**
- 3:05 p.m. 2634 Prognostic value of obesity-related genes methylation in localized renal cell carcinoma patients.** Julia Mendoza-Perez, Houston, TX
- 3:20 p.m. 2635 Methylation in benign prostate and risk of disease progression in men subsequently diagnosed with prostate cancer.** Benjamin A. Rybicki, Detroit, MI
- 3:35 p.m. 2636 Tumor-infiltrating cytotoxic T-cells are associated with improved survival of colorectal cancer patients.** Anna E. Prizment, Minneapolis, MN

- 3:50 p.m.** **2637 Impact of pre-diagnosis weight loss on outcomes in a prospective cohort of esophageal cancer patients.** Sherry Shen, New York, NY
- 4:05 p.m.** **2638 Cardiovascular comorbidity and ovarian cancer patient survival: History of hypertension, heart disease, and diabetes, evidence from the Ovarian Cancer Association Consortium.** Albina Minlikeeva, Buffalo, NY
- 4:20 p.m.** **2639 Survival prognosis of MGUS patients by clinical and risk subgroup: A result from a nationally representative prospective cohort.** Hyun-Seok Kim, Newark, NJ
- 4:35 p.m.** **2640 Clonal hematopoiesis identified by matched-normal blood sequencing of solid tumor patients without hematologic malignancy is common and is associated with decreased overall survival.** Catherine Coombs, New York, NY

New Orleans Theater A, Morial Convention Center

Experimental and Molecular Therapeutics

Hitting the Target Harder: Preclinical Development of Potent and Selective Inhibitors

Co-Chairpersons: David Hyman, New York, NY; Jason Luke, Chicago, IL

- 3:00 p.m.** **Introduction**
- 3:05 p.m.** **2641 The development of potent, selective RET inhibitors that target both wild-type RET and prospectively identified resistance mutations to multi-kinase inhibitors.** Rami Rahal, Cambridge, MA
- 3:20 p.m.** **2642 Evaluation of the mechanism of MET-dependent cellular transformation and potent cytoreductive activity of MGCD265 in novel MET exon 14 mutation positive cancer models.** Lars D. Engstrom, San Diego, CA (not eligible for CME credit)
- 3:35 p.m.** **2643 Discovery and characterization of a selective TrkA inhibitor for the treatment of TrkA-driven cancers.** Vijaya G. Tirunagaru, Hyderabad, India
- 3:50 p.m.** **2644 AP32788, a potent, selective inhibitor of EGFR and HER2 oncogenic mutants, including exon 20 insertions, in preclinical models.** Francois Gonzalez, Cambridge, MA (not eligible for CME credit)
- 4:05 p.m.** **2645 BAY 1436032: A highly selective, potent, and orally available inhibitor of mutant forms of IDH1.** Olaf Panknin, Berlin, Germany
- 4:20 p.m.** **2646 The unique binding mode of NTRC 0066-0, a novel inhibitor of the spindle assembly checkpoint kinase TTK (Mps1), leads to long target residence time and potent antitumor activity.** Jos de Man, Oss, The Netherlands
- 4:35 p.m.** **2647 Merestinib (LY2801653), targeting several oncokinases including NTRK1/2/3, shows potent antitumor effect in colorectal cell line- and patient-derived xenograft (PDX) model bearing TPM3-NTRK1 fusion.** Bruce W. Konicek, Indianapolis, IN (not eligible for CME credit)

New Orleans Theater B, Morial Convention Center

Immunology

Immunotherapy Trial Results and Correlates

Co-Chairpersons: Jennifer A. Wargo, Houston, TX; Renier J. Brentjens, New York, NY

- 3:00 p.m. Introduction**
- 3:05 p.m. 2648 Chimeric antigen receptor T-cell therapy against anaplastic lymphoma kinase (ALK) is limited by target antigen density and CAR surface expression.** Robbie G. Majzner, Bethesda, MD
- 3:20 p.m. 2649 PD-L1 expression as a predictive factor for recurrence pattern and prognosis in curatively resected gastric cancer.** Toshiaki Morihoro, Okayama, Japan
- 3:35 p.m. 2650 In depth immune profiling of the response of melanoma to MAPK inhibition.** Sarah J. Welsh, Sydney, Australia
- 3:50 p.m. 2651 Clinical activity and immune correlates from a phase Ib study evaluating atezolizumab (anti-PDL1) in combination with FOLFOX and bevacizumab (anti-VEGF) in metastatic colorectal carcinoma.** Jeffrey Wallin, South San Francisco, CA (not eligible for CME credit)
- 4:05 p.m. 2652 Pan-cancer analysis of programmed death-ligand 1 (PD-L1) amplifications.** Jan Budczies, Berlin, Germany
- 4:20 p.m. 2653 Tremelimumab plus tumor ablation for patients with hepatocellular carcinoma: Clinical results, immunomonitoring analysis of peripheral T cells and tumor biopsies.** Tim Greten, Bethesda, MD
- 4:35 p.m. 2654 GAPVAC-101 phase I trial: First data of an innovative actively personalized peptide vaccination trial in patients with newly diagnosed glioblastoma.** Harpreet Singh-Jasuja, Tuebingen, Germany

Room 393, Morial Convention Center

Molecular and Cellular Biology/Genetics

Epigenetic Alterations in Cancer

Co-Chairpersons: Mitzi I. Kuroda, Boston, MA; Han Liang, Houston, TX

- 3:00 p.m. Introduction**
- 3:05 p.m. 2655 Oncogenic chromatin factors drive cell type-specific transcription within megadomains in NUT midline carcinoma.** Mitzi I. Kuroda, Boston, MA
- 3:20 p.m. 2656 Loss of SIRT6 reactivates the oncofetal RNA-binding protein Lin28b to drive pancreatic cancer.** Sita Kugel, Boston, MA
- 3:35 p.m. 2657 Target specificity of epigenetic therapy in cancer.** Takahiro Sato, Philadelphia, PA
- 3:50 p.m. 2658 Genome-wide mistargeting of oncogenic SWI/SNF (BAF) complexes in SMARCB1 (BAF47)-deficient sarcomas.** Robert Nakayama, Boston, MA

- 4:05 p.m. **2659 A novel isoform of TET1 that lacks a CXXC domain is overexpressed in cancer.** Charly R. Good, Philadelphia, PA
- 4:20 p.m. **2660 A renal CpG island methylator phenotype (R-CIMP) in kidney tumors associated with germline mutations of *FH* and *SDHB*.** Christopher Ricketts, Bethesda, MD
- 4:35 p.m. **2661 The genomic landscape and clinical relevance of A-to-I RNA editing in human cancers.** Han Liang, Houston, TX

Room 271, Morial Convention Center

Molecular and Cellular Biology/Genetics

LncRNAs, MicroRNAs, and Non-coding RNAs in Cancer

Co-Chairpersons: Andrea Kasinski, West Lafayette, IN; Ashish Lal, Bethesda, MD

- 3:00 p.m. **Introduction**
- 3:05 p.m. **2662 Interrogation of the landscape of long noncoding RNAs in breast cancer to identify an ER-regulated predictor of tamoxifen resistance.** Yashar Niknafs, Ann Arbor, MI
- 3:20 p.m. **2663 Insights into the oncogenic basis of long non-coding RNA PVT1 in human cancer.** Anindya Bagchi, Minneapolis, MN
- 3:35 p.m. **2664 Eradication of neuroblastoma by suppressing the expression of a single long noncoding RNA.** Andrew E. Tee, Sydney, Australia
- 3:50 p.m. **2665 SHOT-RNAs: A novel class of tRNA-derived functional RNAs expressed in hormone-dependent cancers.** Yohei Kirino, Philadelphia, PA
- 4:05 p.m. **2666 The miR-424/503 cluster is a breast cancer tumor suppressor with a role in chemoresistance.** Jose Silva, New York, NY
- 4:20 p.m. **2667 Platelet microparticles infiltrating solid tumors transfer miRNAs and modulate tumor angiogenesis and growth.** Lawrence E. Goldfinger, Philadelphia, PA
- 4:35 p.m. **2668 The exosomes derived from BM-hMSCs home to glioma and deliver synthetic microRNA mimics after systemic administration.** Shinji Yamashita, Miyazaki, Japan

Room 265, Morial Convention Center

Molecular and Cellular Biology/Genetics

Mechanisms and Vulnerabilities of Metabolic Reprogramming

Co-Chairpersons: Ralph J. DeBerardinis, Dallas, TX; Sriram Venneti, Ann Arbor, MI

- 3:00 p.m. Introduction**
- 3:05 p.m. 2669 Glutaminase alternative splicing controls tumor growth and metabolism.** Zachary Stine, Philadelphia, PA
- 3:20 p.m. 2670 Non-metabolic function of asparagine in regulating global protein translation.** Ji Zhang, New York, NY
- 3:35 p.m. 2671 BRAF inhibitor resistance reprograms metabolic and survival pathways to sensitize melanoma cells to arginine deprivation.** Ying-Ying Li, Miami, FL
- 3:50 p.m. 2672 Recurrent patterns of DNA copy number alterations in tumors reflect metabolic selection pressures.** Thomas G. Graeber, Los Angeles, CA
- 4:05 p.m. 2673 Inhibition of fatty-acid oxidation as a therapy for MYC-overexpressing triple-negative breast cancer.** Roman Camarda, San Francisco, CA
- 4:20 p.m. 2674 High fat diet accelerates MYC-driven prostate cancer through metabolic and epigenomic rewiring.** Giorgia Zadra, Boston, MA
- 4:35 p.m. 2675 Metabolic addiction in IDH1 mutant cancers.** Andrew S. Chi, New York, NY

Room 291, Morial Convention Center

Tumor Biology

Mechanism and Dynamics of Cancer Metastasis

Co-Chairpersons: Xiang Zhang, Houston, TX; Li Ma, Houston, TX

- 3:00 p.m. Introduction**
- 3:05 p.m. 2676 Epithelial-mesenchymal transition does not require transcriptional repression of the epithelial program in vivo.** Nicole M. Aiello, Philadelphia, PA
- 3:20 p.m. 2677 Unfolded protein response is required for EMT-driven metastasis by inducing CREB3L1.** Yuxiong Feng, Cambridge, MA
- 3:35 p.m. 2678 Notch1 regulates epithelial-mesenchymal transition and tumor-initiating capability in esophageal squamous-cell carcinoma.** Koji Tanaka, Philadelphia, PA
- 3:50 p.m. 2679 Induction of β -globin protects circulating tumor cells from oxidative stress during dissemination.** Yu Zheng, Charlestown, MA

- 4:05 p.m. **2680 Development and application of a novel model of human lung-to-brain metastasis: identification of TWIST2 and SPOCK1 as unique regulators of brain metastases.** Sheila K. Singh, Hamilton, ON, Canada
- 4:20 p.m. **2681 Intravital microscopy of prostate cancer lesions in bone: Kinetics of osteolysis and therapy response.** Eleonora Dondossola, Houston, TX
- 4:35 p.m. **2682 Sympathetic activation alters the bone vasculature: implication for osteotropic breast cancer metastasis.** Patrick L. Mulcrone, Nashville, TN

Room 288, Morial Convention Center

Tumor Biology

Mechanisms of Tumorigenesis in Mouse Models of Human Cancer

Co-Chairpersons: Kenneth P. Olive, New York, NY; Levi Beverly, Louisville, KY

3:00 p.m. Introduction

- 3:05 p.m. **2683 The landscape of chromosomal aberrations in mouse models of breast cancer reveals driver-specific routes to tumor development.** Uri Ben-David, Cambridge, MA
- 3:20 p.m. **2684 Modeling a prototypical type I ovarian carcinoma in the mouse based on oviductal versus ovarian epithelial transformation: Which is superior?** Rong Wu, Ann Arbor, MI
- 3:35 p.m. **2685 Ultraviolet light cooperates with *Nras*^{Q61R} mutations to drive malignant melanoma.** Rebecca C. Hennessey, Columbus, OH
- 3:50 p.m. **2686 The genomic landscape of Kras mutant genetically engineered mouse models of human cancers.** Melissa Junttila, South San Francisco, CA
- 4:05 p.m. **2687 Rapid in vivo testing of tumor suppressors in ILC by CRISPR-Cas9 mediated somatic gene editing of the mammary gland.** Stefano Annunziato, Amsterdam, The Netherlands
- 4:20 p.m. **2688 A forward genetics screen of murine brain tumors identifies novel candidate genes involved in gliomagenesis.** Matko Cancer, Uppsala, Sweden
- 4:35 p.m. **2689 First MACC1 transgenic mice demonstrate tumor progression via the newly discovered MACC1/Nanog/Oct4 axis.** Ulrike S. Stein, Berlin, Germany

Room 354, Morial Convention Center

Tumor Biology

New Molecular Advances in Pediatric Cancer

Co-Chairpersons: Mignon L. Loh, San Francisco, CA; Kimberly Stegmaier, Boston, MA

3:00 p.m. Introduction

3:05 p.m. 2690 A novel antibody-drug conjugate directed to the ALK receptor tyrosine kinase demonstrates efficacy in models of neuroblastoma.
Renata Sano, Philadelphia, PA

3:20 p.m. 2691 Genome-wide association study identifies two susceptibility loci that modify radiation-related risk for breast cancer after childhood cancer: A report from the Childhood Cancer Survivor Study and St. Jude Lifetime Cohort. Lindsay M. Morton, Bethesda, MD

3:35 p.m. 2692 ETV6-RUNX1 targets a developmentally restricted embryonic human B-myeloid progenitor. Simon E. Richardson, London, United Kingdom

3:50 p.m. 2693 Relapse in BCP-ALL predicted by activated signaling in pro-B cell subsets. Zinaida Good, Stanford, CA

4:05 p.m. 2694 Histone acetyltransferase activity of MOF is required for MLL-AF9 leukemogenesis. Daria G. Valerio, New York, NY

4:20 p.m. 2695 Targeted therapy of leukemia and Ewing's sarcoma by human antibody-targeted nanoparticles. Hyunggyoo Kang, Los Angeles, CA

4:35 p.m. 2696 Four new brain tumor entities emerge from molecular classification of CNS-PNETs. Marcel Kool, Heidelberg, Germany

▲ SPECIAL SESSION • 3:00 p.m.–5:00 p.m.

Room 243, Morial Convention Center

**SU2C Scientific Session: Genomics and Beyond—
Bringing Personalized Medicine to Cancer Therapy
(not eligible for CME credit)**

Chairperson: Phillip A. Sharp, Cambridge, MA

- 3:00 p.m.** **Opening remarks from the SU2C Scientific Advisory Committee**
Chairperson. Phillip A. Sharp, Cambridge, MA
- 3:05 p.m.** **Precision medicine for metastatic castrate resistant prostate cancer.**
SU2C-Prostate Cancer Foundation Prostate Cancer Dream Team.
Dan Robinson, Ann Arbor, MI
- 3:28 p.m.** **Targeting adaptive pathways in metastatic treatment resistant prostate**
cancer. SU2C-Prostate Cancer Foundation Prostate Cancer Dream Team.
Eric J. Small, San Francisco, CA
- 3:51 p.m.** **Targeting mutant *RAS* in patient-derived colorectal cancer organoids by**
combinatorial drug screening. SU2C-Dutch Cancer Society Tumor Organoids
Dream Team. Johannes Bos, Utrecht, The Netherlands
- 4:14 p.m.** **Extending PARP-inhibitors in homologous recombination (HR)-proficient**
ovarian cancer. SU2C-Ovarian Cancer Research Fund Alliance-National
Ovarian Cancer Coalition Dream Team. Panagiotis Konstantinopoulos,
Boston, MA
- 4:37 p.m.** **Molecular early detection of colorectal cancer. SU2C-Dutch Cancer Society**
Colorectal Cancer Early Detection Dream Team. Gerrit A. Meijer, Amsterdam,
The Netherlands

MONDAY

▲ MEET AND GREET • 3:45 p.m.-4:30 p.m.

AACRcentral Amphitheater

Meet the AACR Foundation: Runners for Research

(not eligible for CME credit)

Learn about the AACR Foundation's Runners for Research program and how you and your team can help support AACR scientific and advocacy initiatives as a Runner for Research.

▲ MEET AND GREET • 4:00 p.m.-5:00 p.m.

AACR Publications Booth (2030), Exhibit Halls G-J

Meet the Editor-in-Chief of *Molecular Cancer Research*

(not eligible for CME credit)

Karen E. Knudsen, Philadelphia, PA

▲ NCI/NIH-SPONSORED SESSION • 4:15 p.m.-5:45 p.m.

Room 352, Morial Convention Center

Infrastructure and Resources to Support Cancer Biomarker Discovery Using Metabolite Profiling

(not eligible for CME credit)

Moderator: Krista Zanetti, Rockville, MD

Speakers: Barbara A. Spalholz, Rockville, MD

Ilango Vadivelu, La Jolla, CA

Oliver Fiehn, Davis, CA

Cornelia M. Ulrich, Salt Lake City, UT

▲ FORUMS • 5:00 p.m.–6:30 p.m.

Room 243, Morial Convention Center

Molecular Signatures for Adjuvant Treatment in Localized Prostate Cancer: Valued Assets or Expensive Conundrums?

Chairperson: Adam P. Dicker, Philadelphia, PA

Panel: Robert B. Den, Philadelphia, PA
Mark J. Ratain, Chicago, IL

New Orleans Theater B, Morial Convention Center

Shared Versus Unique Tumor Antigens as Targets

Chairperson: Charles G. Drake, Baltimore, MD

Panel: Drew M. Pardoll, Baltimore, MD
Additional panelists to be announced

New Orleans Theater C, Morial Convention Center

Should Tumor Heterogeneity Guide Therapy?

Chairperson: Kornelia Polyak, Boston, MA

Panel: Richard M. Marais, Manchester, United Kingdom
David Hyman, New York, NY

La Nouvelle Ballroom, Morial Convention Center

Targeting Cancers with Engineered T Cells or BiTES: Towards Broader Application

Chairperson: Roger M. Perlmutter, Rahway, NJ

Panel: David D. Chang, Santa Monica, CA
Patrick A. Baeuerle, Cambridge, MA

Room 393, Morial Convention Center

The Value of Sharing Genomic and Clinical Outcomes Data

Chairperson: Charles L. Sawyers, New York, NY

Panel: Louis M. Staudt, Bethesda, MD
Thomas J. Hudson, Toronto, ON, Canada

▲ SPECIAL SESSIONS • 5:00 p.m.–6:30 p.m.

Room 293, Morial Convention Center

AACR/ASCO Joint Session: Delivering Next Generation Clinical Trials

Co-Chairpersons: José Baselga, New York, NY; Julie M. Vose, Omaha, NE

5:00 p.m. Introduction. José Baselga, New York, NY

5:05 p.m. Basket trials. David Hyman, New York, NY

5:25 p.m. NCI-MATCH (Molecular Analysis for Therapy Choice). Peter J. O'Dwyer, Philadelphia, PA

5:45 p.m. TAPUR (Targeted Agent and Profiling Utilization Registry Study). Richard L. Schilsky, Alexandria, VA

6:05 p.m. Novel trial design in select hematologic malignancies to rapidly translate new genomic findings. John C. Byrd, Columbus, OH

Room 278, Morial Convention Center

Social Interactome Session: Small Molecule Immunotherapeutics

(not eligible for CME credit)

Co-Chairpersons: Justin Guinney, Seattle, WA; Rodrigo Dienstmann, Barcelona, Spain

MONDAY

▲ TOWN MEETING • 5:00 p.m.–6:30 p.m.

Chart Ballroom, Hilton New Orleans Riverside

Minorities in Cancer Research Town Meeting

(not eligible for CME credit)

Chairperson: Edith A. Perez, South San Francisco, CA

▲ TOWN MEETING • 5:00 p.m.–7:00 p.m.

Grand Salon A, Hilton New Orleans Riverside

AACR Radiation Science and Medicine Working Group Town Hall Meeting and Networking Reception

(not eligible for CME credit)

Chairperson: Theodore S. Lawrence, Ann Arbor, MI

Debate topic: Optimal therapies for oligometastatic disease

Debate moderator: Simon N. Powell, New York, NY

▲ SPECIAL SESSION • 6:00 p.m.–8:00 p.m.

Bissonet Room, New Orleans Marriott

**Joint Cancer Immunology (CIMM)/Tumor Microenvironment (TME)
Working Groups Evening Scientific Session**

(not eligible for CME credit)

- 6:00 p.m.** **Opening remarks: CIMM Chairperson.** Pamela S. Ohashi, Toronto, ON, Canada
- 6:15 p.m.** **From genomics to immune landscape in human tumors.** Jerome Galon, Paris, France
- 6:45 p.m.** **Tumor-associated macrophages: From mechanism to therapy.** Jeffrey W. Pollard, Edinburgh, United Kingdom
- 7:15 p.m.** **Cancer epigenetics and immunotherapy.** Weiping Zou, Ann Arbor, MI
- 7:45 p.m.** **Closing remarks: TME Chairperson.** Morag Park, Montréal, QC, Canada

▲ TOWN MEETING • 6:30 p.m.–8:00 p.m.

Mardi Gras Ballroom D-E, New Orleans Marriott

**Molecular Epidemiology Working Group (MEG)
Town Hall Meeting and Reception**

(not eligible for CME credit)

- 6:30 p.m.** **Opening remarks: MEG Chairperson.** Jo L. Freudenheim, Buffalo, NY
- 6:40 p.m.** **Remarks: MEG Chairperson-elect.** Susan E. Hankinson, Amherst, MA
- 6:50 p.m.** **CEBP: Update from the Editor-in-Chief.** Timothy R. Rebbeck, Boston, MA
- 7:10 p.m.** **UK Biobank: Come and get it.** Naomi Allen, Oxford, United Kingdom
- 7:30 p.m.** **Closing remarks.** Susan E. Hankinson, Amherst, MA

▲ PROFESSIONAL ADVANCEMENT SESSION • 6:30 p.m.–8:45 p.m.

Grand Salon B, Hilton New Orleans Riverside

MICR Professional Advancement Reception and Roundtable: Navigating the Road to a Successful Career in Cancer Research

Organized by the Minorities in Cancer Research (MICR) Council

(not eligible for CME credit)

Co-Chairpersons: Brian M. Rivers, Atlanta, GA; Christopher S. Lathan, Boston, MA

Roundtable Topics:

Careers in cancer: Academia. A. William Blackstock, Winston Salem, NC

How to set up a lab and management of resources and personnel. Wayne D. Bowen, Providence, RI; Clayton C. Yates, Tuskegee, AL

Career objectives: Clinical fellow. Abenaa M. Brewster, Houston, TX

Careers in cancer: Nontraditional. Malcolm V. Brock, Baltimore, MD

How to be a good mentor. Bruce E. Johnson, Boston, MA

Career transitioning: From undergraduate to graduate. Kevin Sean Kimbro, Durham, NC

Career transitioning: From junior faculty to tenure. James W. Lillard, Atlanta, GA

Networking professional meetings successfully. John D. Carpten, Los Angeles, CA

Survival skills: Junior faculty. Chanita Hughes-Halbert, Charleston, SC

Effective management, communication, and negotiation skills. Rick A. Kittles, Tucson, AZ

Career transitioning: From graduate school to fellow. KiTani P. Lemieux, New Orleans, LA

Survival skills: Postdoctoral level. Pamela Marino, Bethesda, MD

Career objectives: Clinical fellow. Augusto C. Ochoa, New Orleans, LA

Career transitioning: From medical school to careers in research. José G. Trevino, Gainesville, FL

Additional discussion topics will include:

The physician/scientist

Careers in cancer: Industry

How to get your papers published in journals with a high impact factor

What to look for in a good mentor

How to advance from poster to paper: Challenges of publishing in peer reviewed journals

Grantsmanship: Junior faculty

Careers in cancer: Government

▲ MEET-THE-EXPERT SESSIONS • 7:00 a.m.–8:00 a.m.

Room 393, Morial Convention Center

Cancer Immunotherapy: Of Mice and Men (and Dogs)

Jedd D. Wolchok, New York, NY

Room 288, Morial Convention Center

From Epidemiology to Clinical and Public Health Impact: A Case-Study of Liver Cancer in the United States

Tram K. Lam, Rockville, MD

Room 343, Morial Convention Center

Hallmarks of Cancer: From Concepts to Combinatorial Therapies

Douglas Hanahan, Lausanne, Switzerland

Room 271, Morial Convention Center

Immunotherapy for Childhood Malignancies

Crystal L. Mackall, Palo Alto, CA

Room 291, Morial Convention Center

Mitochondria Metabolism in Tumorigenesis

Navdeep S. Chandel, Chicago, IL

Room 354, Morial Convention Center

Mouse Models to Define Mechanisms of Drug Resistance

Michael T. Hemann, Cambridge, MA

Room 275, Morial Convention Center

MR Spectroscopy and MR Hyperpolarization: Advancing Non-invasive Imaging Endpoints as Surrogate Markers of Response in Cancer Clinical Trials

Elizabeth Maher, Dallas, TX

Room 388, Morial Convention Center

Novel Insights of Lymphoma Pathogenesis from Functional Proteogenomics

Kojo Elenitoba-Johnson, Philadelphia, PA

Room 391, Morial Convention Center

Revealing Unique Aspects of Cancer through Imaging

Christopher H. Contag, Stanford, CA

Room 265, Morial Convention Center

The Co-Clinical Trial Platform and the Tumor Immune Landscaping Project

Pier Paolo Pandolfi, Boston, MA

Room 243, Morial Convention Center

Worlds Colliding: Advanced Anticancer Responses through Functional Interplay Between Epigenetic and Immuno-Therapies

Ricky W. Johnstone, Melbourne, Australia



POSTER SESSIONS • 8:00 a.m.–12:00 p.m.

Exhibit Halls G-J

(not eligible for CME credit)

Complete titles and author listings for abstracts in the poster sessions are available in the online Itinerary Planner, the Annual Meeting App (available at www.AACR.org/AACR2016), and in the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

Bioinformatics and Systems Biology

Section 1 Bioinformatic Tools for Analysis and Mathematical Modeling of Clinical Samples

Molecular and Cellular Biology/Genetics

Section 2 Cell Cycle Control and Checkpoints

Section 3 DNA Double-Strand Break Repair Defects in Cancer:
Therapeutic Strategies and Molecular Basis

Section 4 DNA Methylation 1

Section 5 Hypoxia and Oxidative Stress

Section 6 Pharmacological Inhibitors of Cyclin-dependent Kinases

Section 7 Senescence, Cell Death, and Unfolded Protein Response

Section 8 Transcriptional Regulation and Gene Expression in Human Malignancies

Section 9 Translational and Therapeutic Relevance of Perturbations of Gene Regulation
in Malignancy

Clinical Trials

Section 13 Phase II/III Clinical Trials in Progress

Experimental and Molecular Therapeutics

Section 11 Late-Breaking Research: Experimental and Molecular Therapeutics 3
Section 14 Mechanisms of Drug Resistance 3
Section 15 Monoclonal Antibodies and Antibody-Drug Conjugates
Section 16 New Mechanisms of Anticancer Drug Action
Section 17 Novel Targets and Pathways
Section 18 Preclinical Radiotherapeutics
Section 19 Small Molecule Inhibitors

Cancer Chemistry

Section 20 Structural and Chemical Biology

Clinical Research/Endocrinology

Section 12 Late-Breaking Research: Clinical Research 2 / Endocrinology
Section 21 Biomarkers for Gastrointestinal, Hematologic, and Uncommon Cancers
Section 22 Circulating Biomarkers 2
Section 23 Molecular Classification and Genomic Applications
Section 24 Novel Approaches to Pediatric Cancers

Immunology

Section 25 Immune Checkpoints 2
Section 26 Innate Immune System, Myeloid Cells, and Tumorigenesis

Tumor Biology

Section 28 Antiangiogenic Therapy: Inhibitors and Resistance
Section 29 Hematological Microenvironment
Section 30 Microbiome in Cancer
Section 31 Stemness Properties of Breast and Ovarian Cancer
Section 32 Stemness Properties of Leukemias and Carcinomas
Section 33 Tumor Angiogenesis: Host Interactions and the Tumor Microenvironment
Section 34 Tumor Angiogenesis: Mediators and Mechanisms

Epidemiology

- Section 35 Epidemiology of Cancer Prognosis and Survival
Section 36 Exogenous Exposures and Cancer Risk

Prevention Research

- Section 37 Behavioral and Social Science Studies across the Cancer Prevention Continuum

▲ PLENARY SESSION • 8:15 a.m.–10:15 a.m.

Hall F, Morial Convention Center

Tumor Heterogeneity, Clonal Evolution, and Therapeutic Response

Chairperson: Charles Swanton, London, United Kingdom

- 8:15 a.m. Tracking cancer evolution through therapy (TRACERx): Implications for immune targeting and surveillance.** Charles Swanton, London, United Kingdom
- 8:45 a.m. The AML genome(s).** Timothy J. Ley, St. Louis, MO [PL03-02]*
- 9:15 a.m. Dissecting the complex ecosystem of malignant tumors with single cell RNA-Seq.** Aviv Regev, Cambridge, MA
- 9:45 a.m. The evolution of cancer in response to targeted therapies.** Jeffrey A. Engelman, Boston, MA

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

▲ PROFESSIONAL ADVANCEMENT SESSION • 8:30 a.m.–2:30 p.m.

Halls E2-E3, Morial Convention Center

Special Program for High School Students: The Conquest of Cancer and the Next Generation of Cancer Researchers

Organized by the Science Education Committee

(not eligible for CME credit)

Chairperson: Kathleen W. Scotto, New Brunswick, NJ

- 9:00 a.m. Welcome**
- 9:10 a.m. Understanding cancer**
- 9:40 a.m. Keys to cancer prevention**
- 10:10 a.m. Message from a cancer survivor**
- 10:25 a.m. Why cancer research needs you**
- 10:45 a.m. Introduction of mentors**
- 11:00 a.m. Tours of exhibits and posters**
- 12:30 p.m. Networking luncheon**
- 1:15 p.m. Student poster presentations and awards**
- 1:50 p.m. Evaluation and departure**

▲ MEET AND GREET • 9:00 a.m.–10:00 a.m.

AACR Publications Booth (2030), Exhibit Halls G-J

Meet the Editor-in-Chief of *Molecular Cancer Therapeutics*

(not eligible for CME credit)

Napoleone Ferrara, La Jolla, CA

▲ MEET AND GREET • 10:30 a.m.–11:15 a.m.

AACRcentral Amphitheater

Meet the AACR Foundation: Associate Member Council-Led Fundraising Committee

(not eligible for CME credit)

▲ CLINICAL TRIALS PLENARY SESSION 4 • 10:30 a.m.-12:15 p.m.

Room 391, Morial Convention Center

Immuno-oncology Clinical Trials II

Chairperson to be announced

CT096 Clinical activity, immune and viral correlates of PD-1 blockade with pembrolizumab as first systemic therapy in patients with advanced Merkel cell carcinoma.

Paul Nghiem, Seattle, WA

CT097 A first-in-human phase I dose escalation study of the OX40 agonist MOXR0916 in patients with refractory solid tumors. Aaron R. Hansen, Toronto, ON, Canada

CT098 Anti-tumor activity of PEGylated human IL-10 (AM0010) in patients with advanced solid tumors. Jeffrey R. Infante, Nashville, TN

CT099 Nivolumab (nivo) vs investigator's choice (IC) for recurrent or metastatic (R/M) head and neck squamous cell carcinoma (HNSCC): CheckMate-141. Maura L. Gillison, Columbus, OH

▲ MAJOR SYMPOSIA • 10:30 a.m.-12:15 p.m.

La Nouvelle Ballroom, Morial Convention Center

CAR T Cells: New Models in the Showroom

Chairperson: Stanley R. Riddell, Seattle, WA

10:30 a.m. Introduction

10:40 a.m. Novel designs and targets for CAR T cells. Stanley R. Riddell, Seattle, WA

11:10 a.m. Fueling CAR T cells with regular or premium gas. Carl H. June, Philadelphia, PA

11:40 a.m. Turbo charged CAR T cells. Michel Sadelain, New York, NY

Room 293, Morial Convention Center

Contribution of the Microenvironment to Therapy-Induced Resistance in Cancer

Chairperson: Gabriele Bergers, San Francisco, CA

10:30 a.m. Introduction

10:40 a.m. Antiangiogenic therapy and immune modulation. Gabriele Bergers, San Francisco, CA

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- 11:10 a.m. Tumor microenvironment instigates anti-viral signaling to control relapse after immunotherapy and conventional treatment.** Andy J. Minn, Philadelphia, PA
- 11:40 a.m. Overcoming MAPK inhibitor resistance in melanoma.** Meenhard Herlyn, Philadelphia, PA

Room 354, Morial Convention Center

Mechanisms of Tumor Suppression in the p53 Network

Chairperson: Joaquin M. Espinosa, Boulder, CO

- 10:30 a.m. Introduction**
- 10:40 a.m. Deconstructing p53 pathways in tumor suppression.** Laura D. Attardi, Stanford, CA
- 11:10 a.m. Mechanisms of cell type-specific responses to p53 reactivation.** Joaquin M. Espinosa, Boulder, CO
- 11:40 a.m. Tumor suppressor crosstalk: Modulation of p53 activity by the Hippo pathway.** Moshe Oren, Rehovot, Israel [SY26-03]*

Room 383, Morial Convention Center

Minorities in Cancer Research Scientific Symposium: Ethnic Specific Modifiers of Cancer Risk

Co-Chairpersons: Lisa A. Newman, Detroit, MI; Rick A. Kittles, Tucson, AZ

- 10:30 a.m. Introduction.** Rick A. Kittles, Tucson, AZ
- 10:40 a.m. Mercaptopurine intolerance among young ALL patients of East Asian ancestry.** Jun J. Yang, Memphis, TN
- 11:00 a.m. Novel genetic variants protective against breast cancer in Latinas.** Laura Fejerman, San Francisco, CA
- 11:20 a.m. Ancestral genetic load and prostate cancer risk.** Rick A. Kittles, Tucson, AZ
- 11:40 a.m. Panel Discussion Moderator.** Lisa A. Newman, Detroit, MI

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

New Orleans Theater C, Morial Convention Center

Next Generation Epigenetic Therapeutics

Chairperson: Udo Oppermann, Oxford, United Kingdom

10:30 a.m. Introduction

10:40 a.m. Inhibiting histone demethylases to target metabolic dependencies in multiple myeloma. Udo Oppermann, Oxford, United Kingdom [SY27-01]*

11:10 a.m. Targeting leukemia stem cells with small molecule inhibitors of PRC1. Tomasz Cierpicki, Ann Arbor, MI [SY27-02]*

11:40 a.m. Disordered methionine metabolism in MTAP/CDKN2A deleted cancers leads to dependence on PRMT5. William R. Sellers, Cambridge, MA

New Orleans Theater B, Morial Convention Center

On Combined Immunotherapies and Immunotherapy Combinations

Dedicated to the memory of Holbrook E. Kohrt

Chairperson: Ignacio Melero, Pamplona, Spain

10:30 a.m. Introduction

10:40 a.m. Immunotherapy in combination with neoadjuvant therapy and immune-related adverse events. Mark J. Smyth, Melbourne, Australia [SY28-01]*

11:10 a.m. Targeting CD40 for combination cancer immunotherapy. Robert H. Vonderheide, Philadelphia, PA

Additional speaker to be announced

Room 265, Morial Convention Center

Oncogenic mRNA Translation

Chairperson: Hans-Guido Wendel, New York, NY

10:30 a.m. Introduction

10:40 a.m. Deciphering oncogenic translation programs. Hans-Guido Wendel, New York, NY [SY29-01]*

11:10 a.m. Translational control of cancer development and metastasis by the translation initiation factor, eIF4E. Nahum Sonenberg, Montreal, QC, Canada

11:40 a.m. Translation makes an impact: Tailor-made protein expression for metabolism, cancer and disease. Davide Ruggero, San Francisco, CA

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

Room 343, Morial Convention Center

Targeted Covalent Inhibitors in Cancer

(not eligible for CME credit)

Chairperson: Jack Taunton, San Francisco, CA

- 10:30 a.m.** **Discovery of the highly selective covalent FGFR1-4 inhibitor PRN1371, currently in development for the treatment of solid tumors.** Ken A. Brameld, South San Francisco, CA [SY30-01]*
- 11:05 a.m.** **Targeting inactive mutant KRAS suppresses oncogenic signaling.** Yi Liu, La Jolla, CA
- 11:40 a.m.** **Reducing proteome reactivity of irreversible EGFR T790M inhibitors.** John Kath, San Diego, CA

NCI/NIH-SPONSORED SESSION • 10:30 a.m.–12:15 p.m.

Room 352, Morial Convention Center

Funding Opportunities for Cancer Research at Multiple NIH Institutes and Centers with NIH Experts

(not eligible for CME credit)

Chairperson: Phuong Kim Pham, Bethesda, MD

Speakers: Julia T. Arnold, Bethesda, MD
Pamela Anne Marino, Bethesda, MD
Phuong Kim Pham, Bethesda, MD
Syed Musaddaq Quadri, Bethesda, MD
Sundar Venkatachalam, Bethesda, MD
Mukesh Verma, Bethesda, MD

TUESDAY

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

RECENT ADVANCES IN ORGAN SITE RESEARCH
10:30 a.m.-12:15 p.m.

Room 393, Morial Convention Center

Breast Cancer

Chairperson: Nancy E. Davidson, Pittsburgh, PA

- 10:30 a.m. Current clinical and translational dilemmas in breast cancer.** Nancy E. Davidson, Pittsburgh, PA
- 11:00 a.m. Genomic stratification of breast cancer and its implications.** Carlos M. Caldas, Cambridge, United Kingdom
- 11:30 a.m. Advances and challenges in expanding the armamentarium of drugs for breast cancer.** Lori S. Friedman, South San Francisco, CA

Room 271, Morial Convention Center

Developmental Signaling Pathways in Small Cell Lung Cancer

Chairperson: Charles M. Rudin, New York, NY

- 10:30 a.m. ASCL1 and NEUROD1 identify distinct pulmonary neuroendocrine tumors and bind distinct sites within the tumor genomes.** Jane Johnson, Dallas, TX
- 11:00 a.m. Intra-tumoral heterogeneity in small cell lung cancer.** Julien Sage, Stanford, CA
- 11:30 a.m. Preclinical evaluation of Delta-like ligand 3 (DLL3) as a theranostic target in mouse models of small cell lung cancer.** John T. Poirier, New York, NY

Room 275, Morial Convention Center

Neurofibromatosis and Pediatric Cancer

Chairperson: Luis F. Parada, New York, NY

- 10:30 a.m. Molecular and genetic evaluation of plexiform neurofibromas to identify clinical trials.** D. Wade Clapp, Indianapolis, IN
- 11:00 a.m. RAS-MAPK and beyond: Using informatics to define treatment strategies in NF1.** Nancy Ratner, Cincinnati, OH
- 11:30 a.m. Developmental origin of NF1-associated tumors.** Lu Le, Dallas, TX

New Orleans Theater A, Morial Convention Center

Toward Precision Therapy of Advanced Prostate Cancer

Chairperson: Arul M. Chinnaiyan, Ann Arbor, MI

- 10:30 a.m. The genomic landscape of advanced prostate cancer.** Arul M. Chinnaiyan, Ann Arbor, MI

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- 11:00 a.m. Targeting dual function DNA repair factors: Mechanisms and implications for clinical management.** Karen E. Knudsen, Philadelphia, PA
- 11:30 a.m. What can stem cells tell us about treating advanced prostate cancer?** Owen N. Witte, Los Angeles, CA

▲ RECENT ADVANCES IN PREVENTION RESEARCH
10:30 a.m.–12:15 p.m.

Room 260, Morial Convention Center

Pharmacogenetics and Radiogenomics of Cancer Prevention and Treatment

Chairperson: Jaya M. Satagopan, New York, NY

- 10:30 a.m. Tumor growth models and statistical interactions: Implications for prevention and treatment.** Jaya M. Satagopan, New York, NY
- 11:00 a.m. Radiogenomics: Using genetic/genomic information to enhance precision medicine and improve clinical outcomes for cancer patients treated with radiotherapy.** Barry S. Rosenstein, New York, NY
- 11:30 a.m. Does an increased genetic predisposition for cancer increase risk of radiation toxicity?** Catharine M. West, Manchester, United Kingdom

▲ REGULATORY SCIENCE AND POLICY SESSION
10:30 a.m.–12:30 p.m.

Room 283, Morial Convention Center

Regulatory Implications of Complex Genetic Signatures to Predict Response to Targeted Therapies

Chairperson: Elizabeth M. Jaffee, Baltimore, MD

Speakers: Julia Beaver, Silver Spring, MD
Abraham Tzou, Silver Spring, MD
Giulia Kennedy, Emeryville, CA (**not eligible for CME credit**)
Ira Mellman, South San Francisco, CA
Avrum E. Spira, Boston, MA
Suzanne L. Topalian, Baltimore, MD

TUESDAY

▲ SPECIAL SESSIONS • 10:30 a.m.–12:30 p.m.

Room 388, Morial Convention Center

AACR Radiation Science and Medicine Working Group Special Scientific Session: Exploiting Molecular Targets to Achieve Precision Radiation Medicine

Co-Moderators: David G. Kirsch, Durham, NC; Wendy A. Woodward, Houston, TX

- 10:30 a.m. Modulating the p53-p21 axis to protect normal tissue from radiation injury.** David G. Kirsch, Durham, NC
- 11:00 a.m. Genetic or pharmacological clearance of senescent cells rejuvenates irradiated hematopoietic stem cells.** Daohong Zhou, Little Rock, AR
- 11:30 a.m. Using FDG-PET and targeting the AKT/PI3K pathway to improve outcome of cervical cancer treated with radiochemotherapy.** Julie K. Schwarz, St. Louis, MO
- 12:00 p.m. Immune checkpoint blockade and radiation activate non-redundant immune mechanisms in cancer.** Andy J. Minn, Philadelphia, PA

Grand Salon A, Hilton New Orleans Riverside

Pancreatic Cancer Action Network-AACR Research Grants Presentation Session

(not eligible for CME credit)

Chairperson: Steven D. Leach, New York, NY

Moderator: Howard C. Crawford, Jacksonville, FL

Pancreatic Cancer Action Network-AACR Career Development Award, in memory of Skip Viragh: Targeting macropinocytosis via Na⁺/H⁺ exchanger inhibition in PDAC. Cosimo Commisso, La Jolla, CA

Pancreatic Cancer Action Network-AACR Career Development Award: Role of arginine metabolism in obesity-associated pancreatic cancer. Nada Y. Kalaany, Boston, MA

Pancreatic Cancer Action Network-AACR Pathway to Leadership Grant: Exploiting pancreatic cancer cell metabolism for therapeutic gain. Kirsten L. Bryant, Chapel Hill, NC

Pancreatic Cancer Action Network Translational Research Grant: Use of PARP1 inhibitors to leverage a tumor-selective “kiss of death”. David A. Boothman, Dallas, TX

Moderator: George A. Fisher, Stanford, CA

Pancreatic Cancer Action Network-AACR Research Acceleration Network Grant: Defining novel combination KRAS-targeted therapeutic strategies. Channing J. Der, Chapel Hill, NC

Pancreatic Cancer Action Network Translational Research Grant: Targeting downstream effectors of KRAS via MEK and CDK-4 inhibition in PDAC. Nipun B. Merchant, Miami, FL

Pancreatic Cancer Action Network-AACR Research Acceleration Network Grant: Developing an algorithm for molecular tailored therapy. Jonathan R. Brody, Philadelphia, PA

Pancreatic Cancer Action Network Translational Research Grant: Clinical development of a tumor-penetrating peptide for enhanced pancreatic cancer therapy. Kazuki Sugahara, New York, NY

Moderator: Michael A. Hollingsworth, Omaha, NE

Pancreatic Cancer Action Network-AACR Research Acceleration Network Grant, supported by Celgene: Eliminating T cell barriers in pancreatic cancer patients. Steven D. Leach, New York, NY

Pancreatic Cancer Action Network Translational Research Grant: Targeting inflammatory monocytes in metastatic pancreas cancer. David C. Linehan, Rochester, NY

Pancreatic Cancer Action Network-AACR Career Development Award: Immune escape mechanisms in metastatic pancreatic cancer. Gregory L. Beatty, Philadelphia, PA

CAREER CONVERSATIONS • 11:00 a.m.–12:00 p.m.

AACRcentral, Associate Member Resource and Career Center

Biotech Entrepreneurship: What Does It Take to “Start Up”?

Organized by the Associate Member Council (AMC)

(not eligible for CME credit)

Speakers: Errik B. Anderson, Hanover, NH
Ginette Serrero, Columbia, MD

MEET AND GREET • 11:00 a.m.–12:00 p.m.

AACR Publications Booth (#2030), Exhibit Halls G-J

Meet the Editor-in-Chief of *Cancer Prevention Research*

(not eligible for CME credit)

Scott M. Lippman, La Jolla, CA

▲ SPECIAL SESSION • 11:45 a.m.–12:45 p.m.

AACRcentral Amphitheater

CIMM Working Group Networking Event with Early-Career Researchers: Advancing Your Immunology or Immunotherapy Research (not eligible for CME credit)

Moderator: James L. Gulley, Bethesda, MD

11:45 a.m. Martin A. Cheever, Seattle, WA

11:55 a.m. Ryan Dittamore, San Diego, CA

12:05 p.m. Fiona Ginty, Niskayuna, NY

12:15 p.m. Ralf Huss, Munich, Germany

12:25 p.m. Howard L. Kaufman, New Brunswick, NJ

12:35 p.m. Mark Stern, Tucson, AZ

▲ MEET THE RESEARCH ICON • 12:30 p.m.–1:30 p.m.

AACRcentral, Associate Member Resource and Career Center

Meet the Research Icon: Elaine R. Mardis *Organized by the Associate Member Council (AMC)* (not eligible for CME credit)

Elaine R. Mardis, St. Louis, MO

▲ NCI/NIH-SPONSORED SESSION • 12:30 p.m.–2:15 p.m.

Room 352, Morial Convention Center

Technology Transfer and Intellectual Property: Financial and Career Opportunities for Researchers (not eligible for CME credit)

Chairperson: Phuong Kim Pham, Bethesda, MD

Speakers: Jason V. Cristofaro, Bethesda, MD
Nakisha D.M. Holder, Baltimore, MD
James B. Myers, Indianapolis, IN
Phuong Kim Pham, Bethesda, MD
Thomas J. Siepmann, Alexandria, VA

▲ MAJOR SYMPOSIA • 1:00 p.m.–2:45 p.m.

New Orleans Theater A, Morial Convention Center

Combined Immunotherapy and Radiotherapy: Who Augments Whom?

Chairperson: Sandra Demaria, New York, NY

- 1:00 p.m. Introduction**
- 1:10 p.m. New approaches to increase tumor responsiveness to the combination of radiation and immune therapy.** Amato J. Giaccia, Stanford, CA
- 1:40 p.m. The interplay of radiotherapy with the tumour microenvironment: Novel opportunities to overcome adaptive resistance.** Tim M. Illidge, Manchester, United Kingdom [SY31-02]*
- 2:10 p.m. The future of combinations of immunomodulators with local radiation: Toward a personalized immunotherapy approach.** Sandra Demaria, New York, NY [SY31-03]*

La Nouvelle Ballroom, Morial Convention Center

Epigenetic Mechanisms in Oncogenesis and Tumor Suppression

Chairperson: Shelley L. Berger, Philadelphia, PA

- 1:00 p.m. Introduction**
- 1:10 p.m. Genomic functions of wild type and mutant gain-of-function p53.** Shelley L. Berger, Philadelphia, PA
- 1:40 p.m. Chromatin modifying factors and tumor suppression.** Scott W. Lowe, New York, NY
- 2:10 p.m. Enhancer malfunction in cancer.** Ali Shilatifard, Chicago, IL

Room 391, Morial Convention Center

Insights on Genetic Risk and Biologic Mechanisms of Cancer from Genome-Wide Studies of over 500,000 Cases and Controls: Results from the OncoArray Network

Chairperson: John S. Witte, San Francisco, CA

- 1:00 p.m. Introduction**
- 1:10 p.m. Deciphering the genetic pathways leading to common cancer development with the oncoarray consortium.** Christopher I. Amos, Hanover, NH
- 1:40 p.m. Quantifying and functionally characterizing the genetic contribution to common cancers.** Sara Lindstrom, Seattle, WA
- 2:10 p.m. Polygenic risk prediction: Potential for precision prevention and screening of cancer.** John S. Witte, San Francisco, CA

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

Room 288, Morial Convention Center

Mechanisms of Chromosomal Rearrangement

Chairperson: Peter J. Campbell, Cambridge, United Kingdom

1:00 p.m. Introduction

1:10 p.m. Signatures of structural variation in human cancer genomes. Peter J. Campbell, Cambridge, United Kingdom

1:40 p.m. Non-coding RNA transcription and organization of the B cell genome during immunity and oncogenesis. Uttiya Basu, New York, NY

2:10 p.m. Recombination functions of BRCA1 and BRCA2 at stalled replication forks. Ralph Scully, Boston, MA [SY34-03]*

New Orleans Theater C, Morial Convention Center

On the Translational Edge

Chairperson: Pamela Carroll, Boston, MA

1:00 p.m. Introduction

1:05 p.m. ROR1 targeted by CAR-T cells. Hyam I. Levitsky, Seattle, WA (not eligible for CME credit)

1:35 p.m. Small molecule HDM2 inhibitor HDM201. Francesco Hofmann, Basel, Switzerland

2:05 p.m. Small molecule inhibitor targeting androgen receptor (AR) mutations associated with resistance to emerging AR antagonists. Ian Hickson, Spring House, PA (not eligible for CME credit)

Room 354, Morial Convention Center

Population Genetics Meets Single Cell Analysis

Chairperson: Aviv Regev, Cambridge, MA

1:00 p.m. Introduction

1:05 p.m. Mapping tumor heterogeneity and ecosystem. Dana Pe'er, New York, NY

1:30 p.m. Accumulation of somatic mutations in normal and cancerous tissues with age. Margaret L. Hoang, Baltimore, MD [NG01]**

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

**This speaker is a NextGen Star, selected to give a talk by the AACR President and the Annual Meeting Program Chairperson through a competitive application process designed to bring more visibility to early-career scientists. Abstracts can be found in the "Invited Abstracts: NextGen Stars" section of the *Proceedings*.

- 1:50 p.m.** **The clinical utility of single molecule mutation detection in mitochondrial and nuclear DNA.** Jason H. Bielas, Seattle, WA
- 2:15 p.m.** **Clonal evolution of glioblastoma under therapy.** Raul Rabadan, New York, NY

Room 393, Morial Convention Center

Dharma Master Jiantai Symposium in Biomarkers: Precision Medicine in the Clinic

Chairperson: David B. Solit, New York, NY

- 1:00 p.m.** **Introduction**
- 1:10 p.m.** **Tumor genomic profiling to advance translational science and clinical care.** Michael Berger, New York, NY
- 1:40 p.m.** **Therapeutic approaches to genomically unstable subtypes of breast cancer.** Samuel Aparicio, Vancouver, BC, Canada
- 2:10 p.m.** **CIVIC: A resource for clinical interpretation of variants in cancer.** Malachi Griffith, St. Louis, MO

New Orleans Theater B, Morial Convention Center

Tumor Evolution Within the Host Microenvironment

Chairperson: Kornelia Polyak, Boston, MA

- 1:00 p.m.** **Introduction**
- 1:10 p.m.** **Analysis of clonal populations derived from breast and ovarian tumors.** Joan S. Brugge, Boston, MA
- 1:40 p.m.** **Immune-related changes in breast tumor evolution.** Kornelia Polyak, Boston, MA [SY38-02]*
- 2:10 p.m.** **Quantifying tumor heterogeneity in the microenvironment.** Florian Markowetz, Cambridge, United Kingdom [SY38-03]*
- Histology-informatics for dissecting the spatial and molecular heterogeneity in cancer habitats.** Yinyin Yuan, London, United Kingdom

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

▲ RECENT ADVANCES IN DIAGNOSTICS AND THERAPEUTICS RESEARCH • 1:00 p.m.–2:45 p.m.

Room 265, Morial Convention Center

Dysregulation of Pre-mRNA Splicing in Cancer

Chairperson: Omar I. Abdel-Wahab, New York, NY

- 1:00 p.m.** **Altered expression of splicing factors in cancer pathogenesis.** Adrian Krainer, Cold Spring Harbor, NY
- 1:30 p.m.** **Understanding and targeting spliceosomal mutant proteins in leukemia.** Omar I. Abdel-Wahab, New York, NY
- 2:00 p.m.** **Mechanistic consequences of spliceosome gene mutations in cancer.** Robert Bradley, Seattle, WA

Room 343, Morial Convention Center

Metabolic Rewiring in Cancer

Chairperson: Ralph J. DeBerardinis, Dallas, TX

- 1:00 p.m.** **Metabolic heterogeneity in human tumors in vivo.** Ralph J. DeBerardinis, Dallas, TX
- 1:30 p.m.** **Metabolic vulnerabilities in cancer.** Eyal Gottlieb, Glasgow, United Kingdom
- 2:00 p.m.** **Quantitative analysis of metabolic activity in cancer.** Joshua D. Rabinowitz, Princeton, NJ

▲ RECENT ADVANCES IN ORGAN SITE RESEARCH 1:00 p.m.–2:45 p.m.

Room 293, Morial Convention Center

CLL: Leaving Chemotherapy Behind

Chairperson: John C. Byrd, Columbus, OH

- 1:00 p.m.** **Introduction and historical perspective on CLL therapy.** John C. Byrd, Columbus, OH
- 1:05 p.m.** **B-cell receptor signaling in CLL: Current and future directions.** Jennifer A. Woyach, Columbus, OH

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- 1:35 p.m.** **Targeting Bcl-2 and related family member proteins in CLL.** Jennifer R. Brown, Boston, MA
- 2:05 p.m.** **Chimeric antigen receptor T-cells in CLL: Future prospects at disease cure.** Marcela Maus, Charlestown, MA

Room 260, Morial Convention Center

Colorectal Cancer

Chairperson: Josep Tabernero, Barcelona, Spain

- 1:00 p.m.** **Prognosis prediction in early-stage and metastatic colorectal cancer: From single markers to genomic signatures.** Rodrigo Dienstmann, Seattle, WA
- 1:30 p.m.** **Upstream activation of the Wnt pathway in colorectal cancer: Biology and therapy.** David M. Virshup, Singapore, Singapore
- 2:00 p.m.** **Dissecting colorectal cancer in multiple targetable subtypes.** Josep Tabernero, Barcelona, Spain

RECENT ADVANCES IN PREVENTION RESEARCH 1:00 p.m.–2:45 p.m.

Room 388, Morial Convention Center

Germline Cancer Susceptibility Studies in Diverse Populations

Chairperson: Sharon E. Plon, Houston, TX

- 1:00 p.m.** **Cancer genes in adult Hispanics: Population-specific variants, founder effects and the prevalence of mutations in known genes.** Luis Carvajal-Carmona, Davis, CA
- 1:30 p.m.** **Progress in understanding germline genetic susceptibility to ER- breast cancer in an African ancestry population.** Julie R. Palmer, Boston, MA
- 2:00 p.m.** **The results of a clinical exome sequencing trial in a diverse pediatric cancer clinic population.** Sharon E. Plon, Houston, TX

▲ PROFESSIONAL ADVANCEMENT SESSION • 1:00 p.m.–3:00 p.m.

Room 278, Morial Convention Center

Maximizing Your Research Impact: Community Engagement and Your Career

Organized by the Associate Member Council (AMC)

(not eligible for CME credit)

What is a “civic scientist”? Drew M. Pardoll, Baltimore, MD

Scientists as partners with cancer advocates. Susan L. Weiner, New York, NY

Achieving the ideal: Balancing your career and your role as a “civic scientist.”

A. William Blackstock, Jr., Winston-Salem, NC

Networking session with invited guests.

▲ REGULATORY SCIENCE AND POLICY SESSION 1:00 p.m.–3:00 p.m.

Room 283, Morial Convention Center

The Blueprint Project: Harmonizing Companion Diagnostics Across a Class of Targeted Therapies

(not eligible for CME credit)

Chairperson: Fred R. Hirsch, Aurora, CO

Speakers: Reena Philip, Silver Spring, MD

Steven D. Averbuch, Princeton, NJ

Kenneth Emancipator, Kenilworth, NJ

Abigail McElhinny, Tucson, AZ

Dave Stanforth, Carpinteria, CA

Jill Walker, Cambridge, United Kingdom

James (Andy) Williams, South San Francisco, CA

POSTER SESSIONS • 1:00 p.m.–5:00 p.m.

Exhibit Halls G-J

(not eligible for CME credit)

Complete titles and author listings for abstracts in the poster sessions are available in the online Itinerary Planner, the Annual Meeting App (available at www.AACR.org/AACR2016), and in the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

Endocrinology

Section 1 Clinical Endocrinology

Molecular and Cellular Biology/Genetics

Section 2 Cell Death 1

Section 3 Cell Death 2

Section 4 Cell Death 3

Section 5 Genetic Instability in Cancer: Molecular Basis and Tools

Section 6 Genomic Technologies

Section 7 Genomic Technologies and Analyses

Section 8 Tumor Suppressor Genes and Pathways

Section 9 Tumor Suppressors: TP53 Pathway

Bioinformatics and Systems Biology

Section 11 Late-Breaking Research: Bioinformatics and Systems Biology

Clinical Trials

Section 13 Phase II, III, and Special Population Clinical Trials

Experimental and Molecular Therapeutics

Section 14 Cell Death Pathways and DNA Repair

Section 15 Gene and Vector-Based Therapy

Section 16 Novel Antitumor DNA-Reactive Agents

Section 17 Novel Targets

Section 18 Oncogenes and Tumor Suppressor Genes as Therapeutic Targets

Section 19 Targeting Protein Kinases, Death Pathways, and the Tumor Microenvironment

Cancer Chemistry

- Section 20 Proteomics and Mass Spectrometry
Section 21 Therapeutics

Clinical Research

- Section 22 Biomarkers for Breast Cancer
Section 23 Circulating Biomarkers 3 / Immune Biomarkers
Section 24 Novel Molecular Diagnostics and Imaging

Scientist↔Survivor Program

- Section 25 Advocates Poster Session 2

Immunology

- Section 26 Immune Modulation from Non-Immunotherapy: Preclinical
Section 27 Mechanisms and Applications of Immune-based Therapies

Tumor Biology

- Section 10 Late-Breaking Research: Tumor Biology 3
Section 28 Chemical and Viral Carcinogenesis
Section 29 Host-Tumor Interactions
Section 30 Imaging and Therapeutics of Metastasis
Section 31 Immune Cell Activity
Section 32 Mechanisms of Tumorigenesis in Animal Models of Cancer 2
Section 33 Molecular and Cellular Imaging of Cancer 1
Section 34 Molecular and Cellular Imaging of Cancer 2
Section 35 New Cell Lines and 3D Models

Epidemiology

- Section 36 Biomarkers of Endogenous and Exogenous Exposures

Prevention Research

- Section 12 Late-Breaking Research: Prevention
Section 37 Diet and Cancer

▲ MEET AND GREET • 1:15 p.m.-2:00 p.m.

AACRCentral Amphitheater

Meet the AACR Foundation

**Supporter Spotlight: Elizabeth and John Leonard,
the Leonard Family Foundation**

(not eligible for CME credit)

Learn about the Leonards' enthusiasm for the AACR's mission and why they support AACR research initiatives.

▲ SPECIAL SESSION • 1:30 p.m.-3:30 p.m.

Room 271, Morial Convention Center

**AACR Pediatric Cancer Working Group Special Scientific Session: Novel
Approaches to Pediatric Cancers**

Chairperson: Garrett M. Brodeur, Philadelphia, PA

Speakers: Iannis Aifantis, New York, NY
Maryam Fouladi, Cincinnati, OH
Carol J. Thiele, Bethesda, MD
Jeffrey A. Toretsky, Washington, DC

▲ MEET THE RESEARCH ICON • 1:45 p.m.-2:45 p.m.

AACRCentral, Associate Member Resource and Career Center

Meet the Research Icon: Charles Swanton

Organized by the Associate Member Council (AMC)

(not eligible for CME credit)

Charles Swanton, London, United Kingdom

▲ MEET AND GREET • 2:00 p.m.-3:00 p.m.

AACR Publications Booth (2030), Exhibit Halls G-J

Meet the Editors-in-Chief of *Cancer Immunology Research*

(not eligible for CME credit)

Robert D. Schreiber, St. Louis, MO
Philip D. Greenberg, Seattle, WA

▲ MEET AND GREET • 2:30 p.m.–3:30 p.m.

AACRcentral Amphitheater

Meet the Mentor II: Undergraduate Focus

(not eligible for CME credit)

Chairperson: Kathleen W. Scotto, New Brunswick, NJ

▲ NCI/NIH-SPONSORED SESSION • 2:30 p.m.–4:00 p.m.

Room 352, Morial Convention Center

NCI SBIR Programs Support Technology Innovation for Cancer Detection and Treatment – with Dekk-Tec, Inc. and RefleXion Medical

(not eligible for CME credit)

Moderator: Michael Weingarten, Bethesda, MD

Speakers: Andrew J. Kurtz, Bethesda, MD
Lee Roy Morgan, Jr., New Orleans, LA
Samuel Mazin, Hayward, CA

▲ CLINICAL TRIALS MINISYMPOSIUM • 3:00 p.m.–5:00 p.m.

Room 343, Morial Convention Center

Early Clinical Trials Evaluating Cell-based, Checkpoint Inhibitors, and Novel Immunotherapeutics

Chairperson to be announced

- 3:00 p.m.** **CT131** **NCI#9673 phase II study of nivolumab in refractory metastatic squamous cell carcinoma of the anal canal: Immunologic correlates of response.** Van Morris, Houston, TX
- 3:15 p.m.** **CT132** **Safety of avelumab (MSB0010718C), an anti-PD-L1 antibody: Updated analysis from the phase Ib JAVELIN Solid Tumor trial.** Karen Kelly, Sacramento, CA
- 3:30 p.m.** **CT133** **Association of programmed death-ligand 1 (PD-L1) and 2 (PD-L2) expression with nivolumab (NIVO) efficacy in advanced melanoma (MEL).** F. Stephen Hodi, Boston, MA

- 3:45 p.m.** **CT134** **Intratumoral electroporation of plasmid IL-12 can prime response to anti-PD1/PD-L1 blockade in patients with Stage III/IV-M1a melanoma.**
Alain Algazi, San Francisco, CA
- 4:00 p.m.** **CT135** **Updated phase I results from ZUMA-1: A phase I-II multicenter study evaluating the safety and efficacy of KTE-C19 (anti-CD19 CAR T cells) in subjects with refractory aggressive non-Hodgkin lymphoma (NHL).** Armin Ghobadi, St. Louis, MO
- 4:15 p.m.** **CT136** **Therapeutic and prophylactic AdE1-LMPpoly-based adoptive T cell immunotherapy for Epstein-Barr virus-associated nasopharyngeal carcinoma.** Corey Smith, Herston, Australia
- 4:30 p.m.** **CT137** **First-in-human study of AMG 820, a monoclonal anti-CSF-1R (c-fms) antibody, in patients (pts) with advanced solid tumors.** Kyriakos Papadopoulos, San Antonio, TX

 **MINISYMPOSIA • 3:00 p.m.–5:00 p.m.**

Room 293, Morial Convention Center

Cancer Chemistry

Drug Design and Delivery

Co-Chairpersons: Julian Adams, Cambridge, MA; Rob Kolakowski, Bothell, WA

- 3:00 p.m.** **Introduction**
- 3:05 p.m.** **4331** **Discovery of potent 2-Indole-acylsulfonamide Mcl-1 inhibitors using structure guided fragment-based methods.** Subrata Shaw, Nashville, TN
- 3:20 p.m.** **4332** **Discovery of BAY 1163877 - A pan-FGFR inhibitor: De novo structure-based design and lead optimization of benzothioophenyl-pyrrolotriazines.**
Marie-Pierre L. Collin, Wuppertal, Germany
- 3:35 p.m.** **4333** **Identification and optimization of the first highly selective GLUT-1 inhibitors.** Marcus Bauser, Berlin, Germany
- 3:50 p.m.** **4334** **A novel linker to enable alcohol-containing payloads for the preparation of antibody-drug conjugates.** Robert V. Kolakowski, Bothell, WA
- 4:05 p.m.** **4335** **Nanoformulations of PARP inhibitors olaparib and talazoparib for targeted cancer therapy.** Paige Baldwin, Boston, MA
- 4:20 p.m.** **4336** **Spliceosome inhibition as a novel therapeutic option in acute leukemia.** Anna Wojtuszkiewicz, Amsterdam, The Netherlands
- 4:35 p.m.** **4337** **Novel potent and selective orally available CDK8/19 kinase inhibitors.** Carmen Blanco Aparicio, Madrid, Spain

Room 243, Morial Convention Center

Clinical Research

Clinical Qualification of Impactful NGS-based Biomarkers

Co-Chairpersons: Alberto Bardelli, Candiolo, Italy; Felix Y. Feng, Ann Arbor, MI

3:00 p.m. Introduction

3:05 p.m. 4338 Advanced neoplasia detection in colorectal cancer screening using multiple stool DNA markers and haemoglobin. Beatriz Carvalho, Amsterdam, The Netherlands

3:20 p.m. 4339 Prognostic significance of copy number alteration burden in unfavorable intermediate-risk prostate cancers harboring intraductal carcinoma and cribriform architecture. Melvin Lee Kiang Chua, Toronto, ON, Canada

3:35 p.m. 4340 DNA repair genes aberrations in germline DNA in metastatic castration-resistant prostate cancer patients. Joaquin Mateo, London, United Kingdom

3:50 p.m. 4341 Employing the epigenetic field effect to detect prostate cancer in biopsy-negative patients. Bing Yang, Madison, WI

4:05 p.m. 4342 Ultra-deep next generation sequencing (NGS) of plasma cell-free DNA (cfDNA) from patients with advanced lung cancers: Results from the Actionable Genome Consortium. Bob T. Li, New York, NY

4:20 p.m. 4343 Comparison of over 10,000 clinical NGS circulating tumor DNA profiles to tissue-derived genomic compendia. Oliver A. Zill, Redwood City, CA

4:35 p.m. 4344 Comparison of nCounter, immunohistochemistry, RT-PCR and FISH to detect ALK, ROS1 and RET rearrangements in advanced non-small cell lung cancer (NSCLC). Cristina Teixidó, Barcelona, Spain

Room 275, Morial Convention Center

Epidemiology

Endogenous and Exogenous Factors in Cancer Epidemiology throughout the Life Course

Co-Chairpersons: Jo L. Freudenheim, Buffalo, NY; Marc T. Goodman, Los Angeles, CA

3:00 p.m. Introduction

3:05 p.m. 4345 Association of smoking with breast cancer risk by estrogen and progesterone receptor status: The multiethnic cohort. Inger T. Gram, Tromsø, Norway

3:20 p.m. 4346 Adolescent fiber intake and mammographic density in premenopausal women. Lusine Yaghjian, Gainesville, FL

- 3:35 p.m. 4347 A randomized phase 2 clinical trial of PEITC on detoxification of tobacco-specific and non-specific carcinogens and toxicants.** Jian-Min Yuan, Pittsburgh, PA
- 3:50 p.m. 4348 A prospective study of smoking habit and risk of synchronous colorectal cancers.** David A. Drew, Boston, MA
- 4:05 p.m. 4349 Identifying causal risk factors of metabolic syndrome for renal cell carcinoma: A Mendelian randomization approach.** Robert Carreras-Torres, Lyon, France
- 4:20 p.m. 4350 Human oral microbiome and prospective risk for pancreatic cancer: a population based, nested case control study.** Xiaozhou Fan, New York, NY
- 4:35 p.m. 4351 A neighborhood-wide association study (NWAS) in prostate cancer: A new methodologic approach.** Shannon Lynch, Philadelphia, PA

New Orleans Theater B, Morial Convention Center

Experimental and Molecular Therapeutics

Identifying Targets and Combinations through Novel Approaches

Co-Chairpersons: Alan D. D'Andrea, Boston, MA; Geoffrey I. Shapiro, Boston, MA

- 3:00 p.m. Introduction**
- 3:05 p.m. 4352 Discovery of the first cell-active inhibitors of poly(ADP Ribose) glycohydrolase through high-throughput screening and computational approaches.** Allan Jordan, Manchester, United Kingdom
- 3:20 p.m. 4353 Preclinical evaluation of the PARP inhibitor niraparib and cytotoxic chemotherapy alone or in combination in a panel of 25 triple-negative breast cancer PDX models: Relevance of BRCA mutations, HRD status and other biomarkers.** Jean-Gabriel Judde, Evry, France
- 3:35 p.m. 4354 CRISPR-Cas9 genome-wide gRNA library for target identification.** Donato Tedesco, Mountain View, CA (not eligible for CME credit)
- 3:50 p.m. 4355 Elucidation of the different roles of CDK8 and CDK19 in colorectal cancer (CRC) using CRISPR gene editing technology.** Maria J. Ortiz Ruiz, Sutton, United Kingdom
- 4:05 p.m. 4356 Identification of the anthrax toxin receptor (ANTXR1) as the high affinity cellular receptor for Seneca Valley Virus (SVV).** Linde A. Miles, New York, NY
- 4:20 p.m. 4357 Harnessing system xCT- to target mutant p53 cancer cells.** Wayne A. Phillips, Melbourne, Australia
- 4:35 p.m. 4358 Neutralization of BCL2/XL enhances the cytotoxicity of T-DM1 in vivo.** Jason J. Zoeller, Boston, MA

New Orleans Theater C, Morial Convention Center

Immunology

Potentiating Immunotherapy Responses with Next Generation Agents and Combinatorial Partners

Co-Chairpersons: Laurence Zitvogel, Villejuif, France; F. Stephen Hodi, Boston, MA

- 3:00 p.m. Introduction**
- 3:05 p.m. 4359 Rescue of exhausted CD8 T cells by PD-1 targeted therapies is CD28-dependent.** Alice O. Kamphorst, Atlanta, GA
- 3:20 p.m. 4360 Inhibition of HSP90 enhances T cell-mediated antitumor immune responses through expression of interferon-alpha response genes.** Rina M. Mbofung, Houston, TX
- 3:35 p.m. 4361 Timing of PD-1 blockade is critical to successful synergy with OX40 costimulation in preclinical mammary tumor models.** David J. Messenheimer, Portland, OR
- 3:50 p.m. 4362 T cell repertoire diversification is associated with immune related toxicities following immune checkpoint inhibition in metastatic cancer patients.** David Y. Oh, San Francisco, CA
- 4:05 p.m. 4363 Loss of PTEN promotes resistance to T cell-mediated immunotherapy.** Weiyi Peng, Houston, TX
- 4:20 p.m. 4364 Adenosine A2a receptor blockade as a means of enhancing immune checkpoint inhibition and adoptive T-cell therapy.** Robert D. Leone, Baltimore, MD
- 4:35 p.m. 4365 A phase II trial of high-dose Interleukin-2 (HDIL-2) with recombinant MAGE-A3 protein combined with adjuvant system AS15 in patients with unresectable or metastatic melanoma.** Jennifer Leigh McQuade, Houston, TX

Room 265, Morial Convention Center

Molecular and Cellular Biology/Genetics

Genomic Alterations and Their Functional Consequences

Co-Chairpersons: Jesse Boehm, Cambridge, MA; Barry S. Taylor, New York, NY

- 3:00 p.m. Introduction**
- 3:05 p.m. 4366 Identifying novel recurrent mutations reveals candidate actionable mutations.** Matthew T. Chang, New York, NY
- 3:20 p.m. 4367 Accelerating prediction of tumor vulnerabilities using next-generation cancer models.** Jesse S. Boehm, Cambridge, MA
- 3:35 p.m. 4368 High-throughput phenotyping of lung cancer somatic mutations.** Alice H. Berger, Cambridge, MA

- 3:50 p.m. 4369 Genome-wide copy number dependency analysis identifies partial copy loss of SF3B1 as a novel cancer vulnerability.** Brenton R. Paoella, Boston, MA
- 4:05 p.m. 4370 Genome-wide CRISPR-Cas9 screens reveal loss of redundancy between PKMYT1 and WEE1 in patient-derived glioblastoma stem-like cells.** Patrick Paddison, Seattle, WA
- 4:20 p.m. 4371 Integrated molecular characterization of pheochromocytoma and paraganglioma including a novel, recurrent and prognostic fusion gene.** Matthew D. Wilkerson, Bethesda, MD
- 4:35 p.m. 4372 MYB-QKI rearrangements in angiocentric glioma drive tumorigenicity through a tripartite mechanism.** Lori Ramkissoon, Boston, MA

Room 354, Morial Convention Center

Molecular and Cellular Biology/Genetics

Oncogenic Cell Signaling: Mechanisms and Translational Insight

Co-Chairpersons: Andrew E. Aplin, Philadelphia, PA; James J. Manfredi, New York, NY

- 3:00 p.m. Introduction**
- 3:05 p.m. 4373 Structural basis of recognition of farnesylated and methylated KRAS4b by PDEδ.** Dharendra Simanshu, Frederick, MD
- 3:20 p.m. 4374 Activation mechanism of oncogenic C-helix shifting mutations in BRAF, EGFR, and HER2.** Scott Foster, South San Francisco, CA
- 3:35 p.m. 4375 Pediatric low-grade gliomas with CRAF fusions respond differentially to targeted therapeutics based on their dimerization profiles.** Payal Jain, Philadelphia, PA
- 3:50 p.m. 4376 Beyond AKT: Critical pathways for PI3K-dependent transformation.** Arturo Orlacchio, Bronx, NY
- 4:05 p.m. 4377 AKT positively regulates Rho-GTP by attenuating the GAP activity of the DLC1 tumor suppressor: A mechanistic study with translational implications.** Brajendra K. Tripathi, Bethesda, MD
- 4:20 p.m. 4378 Discovery and characterization of two novel drivers of hepatocellular carcinoma.** Charlotte R. Feddersen, Iowa City, IA
- 4:35 p.m. 4379 Exosomes isolated from ovarian cancer cells transfer oncogenic features to the target cells promoting epithelial to mesenchymal transition.** Carlos Salomon, Brisbane, Australia

TUESDAY

New Orleans Theater A, Morial Convention Center

Multidisciplinary

New Cool Tools for Cancer Discovery

Co-Chairpersons: Levi A. Garraway, Boston, MA; Rong Fan, New Haven, CT

- 3:00 p.m. Introduction**
- 3:05 p.m. 4380 Dissecting the multicellular ecosystem of metastatic melanoma by single-cell RNA-sequencing.** Benjamin Izar, Boston, MA
- 3:20 p.m. 4381 High-throughput in vivo systems biology using implantable microdevices.** Oliver Jonas, Cambridge, MA
- 3:35 p.m. 4382 Intravital imaging of endogenous BRAFV600E melanoma reveals plasticity of tumor response and resistance to trametinib over time.** Hailey E. Brighton, Chapel Hill, NC
- 3:50 p.m. 4383 SOCRATES: Integrating ex vivo and in silico analysis to identify optimal drug combinations for patients.** Elizabeth A. Coker, London, United Kingdom
- 4:05 p.m. 4384 Selective cross-cohort discovery of transcriptional mechanisms presiding over high-risk neuroblastoma subtype state maintenance.** Presha Rajbhandari, New York, NY
- 4:20 p.m. 4385 Live-imaging the interface between homeostasis and cancer initiation.** Cristiana Pineda, New Haven, CT
- 4:35 p.m. 4386 CETSA as a new strategy to understand efficacy, adverse effects and resistance development of anticancer drugs.** Pär Nordlund, Stockholm, Sweden

Room 260, Morial Convention Center

Tumor Biology

Therapeutic Studies in Cell Culture and Mouse Models

Co-Chairpersons: Katerina A. Politi, New Haven, CT; Elisa De Stanchina, New York, NY

- 3:00 p.m. Introduction**
- 3:05 p.m. 4387 Alterations of TP53 mediate resistance to abiraterone in castration-resistant prostate cancer.** Min Zou, New York, NY
- 3:20 p.m. 4388 The role of neoantigens in immunotherapy of cutaneous melanoma.** Renee M. Thomas, Bethesda, MD
- 3:35 p.m. 4389 Therapeutic opportunities of RANK pathway in breast cancer.** Eva Gonzalez Suarez, L'Hospitalet de Llobregat, Spain
- 3:50 p.m. 4390 SVV-001 prolongs animal survival in PDOX adult GBM models.** Huiyuan Zhang, Houston, TX

- 4:05 p.m. **4391 Overcoming primary ibrutinib resistance in mantle cell lymphoma.**
Leo Zhang, Houston, TX
- 4:20 p.m. **4392 Yes1 is the key molecule for the resistance to trastuzumab in breast cancer, and dasatinib overcomes the resistance.** Hiromasa Yamamoto, Okayama, Japan
- 4:35 p.m. **4393 A pooled shRNA screen in 3D cultures of primary tumor propagating cells identifies regulators of innate chemoresistance in KRAS-driven NSCLC.**
David Richard Simpson, Stanford, CA

Room 393, Morial Convention Center

Tumor Biology

Tumor-supporting Microenvironment

Co-Chairpersons: Yuval Shaked, Haifa, Israel; Jonathan Sleeman, Mannheim, Germany

- 3:00 p.m. **Introduction**
- 3:05 p.m. **4394 Phenotypic heterogeneity of disseminated tumor cells is predetermined by primary tumor hypoxic microenvironments.** Georg Fluegen, New York, NY
- 3:20 p.m. **4395 Tissue stiffness and hypoxia regulate breast cancer stem cells through ILK.** Mei-Fong Pang, Princeton, NJ
- 3:35 p.m. **4396 Circulating CAFs and CAF-secreted factors may be indicative of breast cancer metastasis.** Phil Miller, Miami, FL
- 3:50 p.m. **4397 Mesenchymal stem cell-derived collagen I plays a role in organizing breast cancer cell migration and metastasis.** Maria E. Gonzalez, Ann Arbor, MI
- 4:05 p.m. **4398 Impact of Interleukin-22 on K-ras mutant lung tumor microenvironment and stemness properties.** Nasim Khosravi, Houston, TX
- 4:20 p.m. **4399 Hypoxia as a driver of myeloid-derived suppressor cell recruitment in hepatocellular carcinoma via CCL26/CX3CR1.** David Kung-Chun Chiu, Hong Kong, Hong Kong
- 4:35 p.m. **4400 Hematopoietic age at onset of breast cancer dictates disease aggressiveness and progression.** Jaclyn Sceneay, Boston, MA

▲ MEET AND GREET • 3:45 p.m.-4:30 p.m.

AACRcentral Amphitheater

Meet the AACR Foundation: Runners for Research (not eligible for CME credit)

Learn about the Runners for Research initiative of the AACR Foundation, and how you and your team can help support AACR scientific and advocacy initiatives as a Runner for Research.

▲ MEET AND GREET • 3:30 p.m.-4:30 p.m.

AACRcentral, MICR Networking and Resource Center, Exhibit Halls G-J

Meet the Director and Staff of the NCI-Center to Reduce Cancer Health Disparities *Organized by the Minorities in Cancer Research (MICR) Council* (not eligible for CME credit)

Director, NCI-CRCHD: Sanya A. Springfield, Bethesda, MD

NCI-CRCHD Staff: H. Nelson Aguila, Rockville, MD
Peter O. Ogunbiyi, Bethesda, MD
Jason Liu, Rockville, MD
Elizabeth M. Perruccio, Bethesda, MD
Tiffany A. Wallace, Rockville, MD

▲ REGULATORY SCIENCE AND POLICY SESSION 3:30 p.m.-5:30 p.m.

Room 283, Morial Convention Center

New Drugs: A Review of Recent Breakthrough Therapies

Chairperson: Amy E. McKee, Silver Spring, MD

Speakers: Nicole J. Gormley, Silver Spring, MD
Sean Khozin, Silver Spring, MD
James Xu, Silver Spring, MD
David McDermott, Boston, MA
S. Vincent Rajkumar, Rochester, MN
Suresh S. Ramalingam, Atlanta, GA

▲ MEET AND GREET • 4:00 p.m.–5:00 p.m.

AACR Publications Booth (2030), Exhibit Halls G-J

Meet the Editors-in-Chief of *Cancer Discovery*

(not eligible for CME credit)

Lewis C. Cantley, New York, NY

José Baselga, New York, NY

▲ NCI/NIH-SPONSORED SESSION • 4:15 p.m.–5:45 p.m.

Room 352, Morial Convention Center

Informatics Technology for Cancer Research

(not eligible for CME credit)

The Informatics Technology for Cancer Research (ITCR) program overview. Juli Klemm, Rockville, MD

Informatics resources for cancer radiomics. Fred Prior, Little Rock, AR

Identifying clinically actionable genomic alterations for cancer therapy. Funda Meric-Bernstam, Houston, TX

Identifying candidate familial pancreatic cancer susceptibility genes using genome sequencing. Nicholas J. Roberts, Baltimore, MD

A federated network simplifies data and sharing of quantitative image analysis tools. Nita J. Maihle, Augusta, GA

A pipeline for development and sharing of quantitative image analysis tools. John Buatti, Iowa City, IA

Molecular classification and risk stratification of medulloblastoma. Yoon-Jae Cho, Portland, OR

▲ FORUMS • 5:00 p.m.–6:30 p.m.

Room 243, Morial Convention Center

Added Value of Patient-Derived Xenografts for Cancer Research and Their Role in Guiding Clinical Treatment

Chairperson to be announced

Panel: Manuel Hidalgo, Madrid, Spain
David M. Weinstock, Boston, MA

Room 393, Morial Convention Center

Comprehensive Versus Targeted Sequencing for Tumor Genomic Profiling

Chairperson: Levi A. Garraway, Boston, MA

Panel: Mark A. Rubin, New York, NY
Roman K. Thomas, Cologne, Germany

Room 271, Morial Convention Center

Digital Exposomics in Cancer Epidemiology

Chairperson: Elizabeth A. Platz, Baltimore, MD

Panel: Jennifer Schrack, Baltimore, MD
Chirag J. Patel, Boston, MA

Room 293, Morial Convention Center

Genotype Versus Phenotype for Patient Selection

Chairperson: William R. Sellers, Cambridge, MA

Panel: Anthony G. Letai, Boston, MA
David B. Solit, New York, NY
Patricia M. LoRusso, New Haven, CT

Room 265, Morial Convention Center

Minimal Criteria to Advance Therapy to the Clinic

Chairperson: Susan M. Galbraith, Macclesfield, United Kingdom

Panel: Lilli Petruzzelli, Cambridge, MA
Lillian L. Siu, Toronto, ON, Canada

▲ TOWN MEETING • 6:00 p.m.–8:30 p.m.

Grand Salon B, Hilton New Orleans Riverside

**Cancer Immunology Working Group (CIMM)
Town Hall Meeting and Reception**

(not eligible for CME credit)

- 6:00 p.m.** **Opening remarks: CIMM Chairperson.** Pamela S. Ohashi, Toronto, ON, Canada
- 6:15 p.m.** **Remarks: CIMM Chairperson-elect.** Patrick Hwu, Houston, TX
- 6:30 p.m.** ***Cancer Immunology Research: Update from the Co-Editors-in-Chief.***
Robert D. Schreiber, St. Louis, MO; Philip D. Greenberg, Seattle, WA
- 6:35 p.m.** **Update on Fight Colorectal Cancer (FCRC) initiative.** Al Bowen Benson III, Chicago, IL
- 6:45 p.m.** **Scientific program: Opening remarks.** Patrick Hwu, Houston, TX
- 6:50 p.m.** **Program chairperson.** Brad Nelson, Victoria, BC, Canada
- 6:55 p.m.** **Gut microbiota and the etiology of colon cancer.** Alberto Martin, Toronto, ON, Canada
- 7:10 p.m.** **Commensal bacteria alter the effectiveness of T cell-based immunotherapies by modulating tumor-promoting inflammation.** Jose R. Conejo-Garcia, Philadelphia, PA
- 7:25 p.m.** **Closing remarks.** Patrick Hwu, Houston, TX

▲ MEET-THE-EXPERT SESSIONS • 7:00 a.m.–8:00 a.m.

Room 243, Morial Convention Center

Cancer Neoantigens: A Framework for Cancer Immunoediting and Personalized Cancer Vaccines

Robert D. Schreiber, St. Louis, MO

Room 354, Morial Convention Center

Drugging the p53 Pathway Through Knowledge Gained by Manipulating p63 and p73

Elsa R. Flores, Houston, TX

Room 393, Morial Convention Center

Engineering the Cancer Genome

Tyler Jacks, Cambridge, MA

Room 343, Morial Convention Center

Non-Invasive Imaging of Serum Biomarkers

Jason S. Lewis, New York, NY

Room 388, Morial Convention Center

Phenotypes, Prognostics, and Precision in Head and Neck Squamous Cell Carcinoma (HNSCC)

Ezra E. W. Cohen, San Diego, CA

Room 265, Morial Convention Center

Regulation of Disseminated Tumor Cell Dormancy by Distant Microenvironments

Cyrus M. Ghajar, Irvine, CA

Room 391, Morial Convention Center

Targeting SLAM Family of Immune Receptors for Cancer Therapy

Michal Lotem, Jerusalem, Israel

Room 260, Morial Convention Center

The Cancer Cell Map Initiative

Trey Ideker, La Jolla, CA

POSTER SESSIONS • 8:00 a.m.–12:00 p.m.

Exhibit Halls G-J

(not eligible for CME credit)

Complete titles and author listings for abstracts in the poster sessions are available in the online Itinerary Planner, the Annual Meeting App (available at www.AACR.org/AACR2016), and in the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

Molecular and Cellular Biology/Genetics

- Section 2 Cell Signaling
- Section 3 DNA Methylation 2
- Section 4 Epigenetic Biomarkers and Therapies
- Section 5 Germline/Somatic Genomics and Personalized Medicine
- Section 6 Histone Modifications and Chromatin Dynamics
- Section 7 Protein Modification and Transcriptional Regulation
- Section 8 Receptors
- Section 9 Wnt, AKT, and Cell Survival Pathways
- Section 10 Late-Breaking Research: Molecular and Cellular Biology 3

Clinical Trials

- Section 13 Phase I Clinical Trials 2

Experimental and Molecular Therapeutics

- Section 14 Cellular Responses to Anticancer Drugs
- Section 15 Combination Therapies and Approaches to Sensitizing Cancer Cells to Drugs
- Section 16 Epigenetic Agents
- Section 17 HDAC, Methyltransferase Inhibitors, and Novel Anticancer Agents
- Section 18 Molecular Characterizations of Tumors and Translational Studies
- Section 19 Novel Chemotherapies
- Section 20 Targeted Therapy

Cancer Chemistry

- Section 21 Drug Design

Immunology

- Section 22 Immune Modulating Agents 2
- Section 23 Immune Response Monitoring: Preclinical

Clinical Research

- Section 24 Biomarkers for Gastrointestinal Cancer
- Section 25 Biomarkers for Genitourinary Cancers: Prostate
- Section 26 Immune Modulation from Non-Immunotherapy and Antibodies: Clinical
- Section 27 Predictive and Prognostic Biomarkers

Tumor Biology

- Section 11 Late-Breaking Research: Tumor Biology 4
- Section 28 Cell Adhesion and Tumor Treatment
- Section 29 Cellular and Molecular Dynamics of Cancer Migration and Invasion
- Section 30 Extracellular Microenvironment
- Section 31 Immunomodulation and Immunotherapy
- Section 32 Molecular Carcinogenesis
- Section 33 Therapeutic Studies in Patient-derived Xenografts

Epidemiology

- Section 12 Late-Breaking Research: Epidemiology
- Section 34 Description of Cancer Trends and Next-Generation Sequencing in Epidemiology

Prevention Research

- Section 35 Chemoprevention Studies

Bioinformatics and Systems Biology

Section 37 New Bioinformatic Tools, Databases, Portals, and Data Resources

▲ PLENARY SESSION • 8:00 a.m.–10:00 a.m.

Hall F, Morial Convention Center

Detection and Monitoring of Pre-Malignant Disease and Therapeutic Response

Chairperson: Caroline Dive, Manchester, United Kingdom

- 8:00 a.m.** **Liquid biopsies and the early diagnosis of cancer.** Luis A. Diaz, Baltimore, MD
- 8:30 a.m.** **Heterogeneity, drug resistance, and clonal evolution in colorectal cancers.** Alberto Bardelli, Candiolo, Italy [PL04-03]*
- 9:00 a.m.** **Developing circulating tumor cell derived explant models (CDX).** Caroline Dive, Manchester, United Kingdom [PL04-04]*
- 9:30 a.m.** **Clonal hematopoiesis of indeterminate potential.** Benjamin Ebert, Boston, MA

▲ MAJOR SYMPOSIA • 10:15 a.m.–12:00 p.m.

New Orleans Theater C, Morial Convention Center

Cancer Immunotherapy: Small Molecule Approaches

Chairperson: Thomas F. Gajewski, Chicago, IL

- 10:15 a.m.** **Introduction**
- 10:25 a.m.** **Targeting oncogenic and host pathways to promote immunotherapy responsiveness.** Thomas F. Gajewski, Chicago, IL
- 10:55 a.m.** **Direct activation of STING in the tumor microenvironment leads to potent and systemic tumor regression and immunity.** Thomas W. Dubensky, Berkeley, CA [SY39-02]*
- 11:25 a.m.** **IDO1 inhibition as a modifier of the immune composition of the tumor microenvironment and a component of combination immunotherapy for cancer.** Peggy Scherle, Wilmington, DE (not eligible for CME credit)

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

New Orleans Theater B, Morial Convention Center

Function of T Cells and Their Therapeutic Application in Cancer

Chairperson: Alexander Rudensky, New York, NY

10:15 a.m. Introduction

10:25 a.m. PEPing up T cell responses to cancer. Susan Kaech, New Haven, CT

10:55 a.m. Function of regulatory T cells in cancer. Alexander Rudensky, New York, NY

11:25 a.m. Targeting cancer with engineered T cells. Philip D. Greenberg, Seattle, WA

Room 243, Morial Convention Center

Modeling the Interface between Cancer Genomics and Drugs

Chairperson: Andrea Califano, New York, NY

10:15 a.m. Introduction

10:20 a.m. Systematic interrogation of MEK and PI3K signaling. William C. Hahn, Boston, MA

10:45 a.m. Functional characterization of mutant BRAF alleles: Therapeutic implications. Neal Rosen, New York, NY

11:10 a.m. A network of deeply conserved synthetic-lethal interactions for exploration of precision cancer therapy. John Paul Shen, La Jolla, CA [NG02]**

11:35 a.m. Elucidation and pharmacological targeting of tumor checkpoint dependencies. Andrea Califano, New York, NY

Room 354, Morial Convention Center

Pediatric Cancers and Epigenetic Therapies: Promise and Challenges

Chairperson: Kimberly Stegmaier, Boston, MA

10:15 a.m. Introduction

10:20 a.m. Emerging epigenetic targets in high-risk pediatric solid tumors. Kimberly Stegmaier, Boston, MA [SY42-01]*

10:45 a.m. Dissecting the role of histone mutations in high-grade pediatric brain tumors. Nada Jabado, Montreal, QC, Canada

11:10 a.m. Zebrafish models of PAX3-FOXO1 pathogenesis reveal novel targets in human rhabdomyosarcoma. Genevieve Kendall, Dallas, TX [NG03]**

11:35 a.m. Mechanisms of tumor suppression by BAF complexes. Gerald Crabtree, Stanford, CA

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

**This speaker is a NextGen Star, selected to give a talk by the AACR President and the Annual Meeting Program Chairperson through a competitive application process designed to bring more visibility to early-career scientists. Abstracts can be found in the "Invited Abstracts: NextGen Stars" section of the *Proceedings*.

Room 393, Morial Convention Center

Pre-Metastatic Niches, Exosomes, and Tumor-Secreted Factors

Chairperson: David C. Lyden, New York, NY

10:15 a.m. Introduction

10:25 a.m. Tumor exosomes determine pre-metastatic niches for organotropic metastasis. David C. Lyden, New York, NY

10:55 a.m. ECM remodeling at the pre-metastatic niche. Janine T. Erler, Copenhagen, Denmark [SY44-02]*

11:25 a.m. A role of extracellular miRNA in the establishment of a pre-metastatic niche. Emily Wang, Duarte, CA

Room 343, Morial Convention Center

Precision Cancer Medicine Using Functional Testing

Chairperson: Anthony G. Letai, Boston, MA

10:15 a.m. Introduction

10:25 a.m. Precision cancer medicine using BH3 profiling. Anthony G. Letai, Boston, MA [SY43-01]*

10:55 a.m. Predicting solid tumor sensitivity to drug combinations using a multiplexed microinjection platform and prioritizing therapies for clinical development. James Olson, Seattle, WA [SY43-02]*

11:25 a.m. Drug sensitivity testing for individualized therapies in hematologic malignancies. Jeffrey W. Tyner, Portland, OR

Room 293, Morial Convention Center

Somatic Mutations in Non-Coding Regions as a Mechanism of Transformation

Chairperson: Gad Getz, Charlestown, MA

10:15 a.m. Introduction

10:25 a.m. Recurrent and functional promoter mutations in cancer. Gad Getz, Charlestown, MA

10:55 a.m. Non-coding and other novel regions hypermutated in cancer. Michael Snyder, Stanford, CA

11:25 a.m. Non-coding mutations driving chronic lymphocytic leukemia. Xose S. Puente, Oviedo, Spain

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).

▲ RECENT ADVANCES IN DIAGNOSTICS AND THERAPEUTICS RESEARCH • 10:15 a.m.–12:00 p.m.

Room 260, Morial Convention Center

Imaging Genomics and Cancer Systems In Vivo

Chairperson: David R. Piwnica-Worms, Houston, TX

- 10:15 a.m. Imaging therapy failure.** Erik Sahai, London, United Kingdom
- 10:45 a.m. Imaging tumor habitats: Life at the edge.** Robert J. Gillies, Tampa, FL
- 11:15 a.m. Imaging metabolic stress in vivo.** David R. Piwnica-Worms, Houston, TX

▲ RECENT ADVANCES IN ORGAN SITE RESEARCH 10:15 a.m.–12:00 p.m.

Room 391, Morial Convention Center

Asian Prevalent (Gastric) Cancers

Chairperson: Christoph J. Reinhard, Indianapolis, IN

- 10:15 a.m. Translational relevance of molecular subtypes of gastric cancer and associated model systems.** Christoph J. Reinhard, Indianapolis, IN (**not eligible for CME credit**)
- 10:45 a.m. Clinical sequencing program in metastatic gastric cancer patients at Samsung Medical Center: Translation from sequence-preclinical-clinical trials.** Jeeyun Lee, Seoul, Republic of Korea
- 11:15 a.m. New horizons in gastric cancer treatment.** Atsushi Ohtsu, Kashiwa, Japan

Room 288, Morial Convention Center

Ovarian Cancer

Chairperson: Shannon N. Westin, Houston, TX

- 10:15 a.m. Progress in matching biology of disease and drug in ovarian cancer.** Darren Hodgson, Chesire, United Kingdom
- 10:45 a.m. Strategic trial design for novel target discovery and evaluation.** Shannon N. Westin, Houston, TX
- 11:15 a.m. Integrating biology into clinical practice in ovarian cancer.** Stéphanie Lheureux, Toronto, ON, Canada

▲ RECENT ADVANCES IN PREVENTION RESEARCH
10:15 a.m.–12:00 p.m.

Room 271, Morial Convention Center

Cancer Prevention through Modulation of the Tumor Microenvironment

Chairperson: Dean W. Felsher, Stanford, CA

- 10:15 a.m. Remodeling the tumor microenvironment through oncogene inactivation.** Dean W. Felsher, Stanford, CA
- 10:45 a.m. Targeting cancer through cell-death associated inflammation.** Stephen Tait, Glasgow, United Kingdom
- 11:15 a.m. Inflammatory microenvironment regulates colorectal cancer progression.** Sergei I. Grivennikov, Philadelphia, PA

New Orleans Theater A, Morial Convention Center

The Microbiome and Cancer

Chairperson: Eric G. Pamer, New York, NY

- 10:15 a.m. Impact of the intestinal microbiome on cancer treatment.** Eric G. Pamer, New York, NY
- 10:45 a.m. Cancer as a disease of the symbiont/metaorganism.** Giorgio Trinchieri, Bethesda, MD
- 11:15 a.m. Control of tissue immunity and inflammation by the microbiota.** Yasmine Belkaid, Bethesda, MD

▲ PLENARY SESSION • 12:15 p.m.–1:45 p.m.

Hall F, Morial Convention Center

AACR Annual Meeting 2016 Highlights: Vision for the Future

Chairperson to be announced

- 12:15 p.m. Introduction.** Speaker to be announced
- 12:20 p.m. Basic science.** Scott A. Armstrong, New York, NY
- 12:40 p.m. Clinical/translational.** José Baselga, New York, NY
- 1:00 p.m. Early detection and prevention research.** Elaine R. Mardis, St. Louis, MO
- 1:20 p.m. Wrap up.** Nancy E. Davidson, Pittsburgh, PA