



AACR Annual Meeting 2016 Program Guide PDF

Saturday, April 16

This Program Guide PDF was released to press on March 15, 2016. Please note that some sessions and presentations have changed since that time. The current Annual Meeting program is available electronically in the following formats:

- [Online Itinerary Planner](#)
- [Annual Meeting App](#) (for iOS and Android devices)

Please refer to the electronic versions of the program for the most up-to-date information.

AWARDS AND LECTURESHIPS

Twenty-Fifth Annual AACR-American Cancer Society Award for Research Excellence in Cancer Epidemiology and Prevention

This award recognizes outstanding research accomplishments in cancer epidemiology, biomarkers, and prevention.

Twenty-First Annual AACR Joseph H. Burchenal Memorial Award for Outstanding Achievement in Clinical Cancer Research

This award recognizes outstanding achievements in clinical cancer research.

Tenth Annual AACR Award for Outstanding Achievement in Chemistry in Cancer Research

This award recognizes the importance of chemistry to advancements in cancer research.

Fifty-Sixth Annual AACR G.H.A. Clowes Memorial Award

This award honors an individual with outstanding recent accomplishments in basic cancer research.

Fourth Annual AACR-CRI Lloyd J. Old Award in Cancer Immunology

This award honors an active scientist whose outstanding and innovative research in cancer immunology has had a far-reaching impact on the cancer field.

Tenth Annual AACR Margaret Foti Award for Leadership and Extraordinary Achievements in Cancer Research

This award honors an individual whose leadership and extraordinary achievements in, or in support of, cancer research have made a major impact on the field.

Thirteenth Annual AACR Award for Lifetime Achievement in Cancer Research

This award honors an individual who has made significant fundamental contributions to cancer research, either through a single scientific discovery or a body of work.

Eleventh Annual AACR-Minorities in Cancer Research Jane Cooke Wright Memorial Lectureship

This lectureship recognizes an outstanding scientist who has made meritorious contributions to the field of cancer research and who has, through leadership or by example, furthered the advancement of minority investigators in cancer research.

Thirty-Sixth Annual AACR Award for Outstanding Achievement in Cancer Research

This award honors a young investigator (not more than 40 years of age at the time the award is received) on the basis of meritorious achievement in cancer research.

Nineteenth Annual Pezcoller Foundation-AACR International Award for Cancer Research

This award recognizes a scientist who has made a major scientific discovery in basic cancer research, or who has made significant contributions to translational cancer research.

Fortieth Annual AACR Richard and Hinda Rosenthal Memorial Award

This award honors and provides incentive to an investigator relatively early in their career (not more than 50 years of age) who are engaged in the practice of medicine, for research that has made, or promises to soon make, a notable contribution to improved clinical care in the field of cancer.

Tenth Annual AACR Princess Takamatsu Memorial Lectureship

This lectureship recognizes an individual scientist whose novel and significant work has had, or may have, a far-reaching impact on the detection, diagnosis, treatments, or prevention of cancer, and who embodies the dedications of the Princess to multinational collaborations.

Tenth Annual AACR Team Science Award

This award acknowledges and catalyzes the growing importance of interdisciplinary teams to the understanding of cancer and the translation of research discoveries into clinical cancer applications.

Twelfth Annual AACR-Irving Weinstein Foundation Distinguished Lectureship

This lectureship recognizes outstanding science that has the potential to inspire creative thinking and new directions in cancer research. This lectureship is selected by the AACR President.

Nineteenth Annual AACR-Women in Cancer Research Charlotte Friend Memorial Lectureship

This lectureship honors an outstanding scientist who has made meritorious contributions to the field of cancer research and who has, through leadership or by example, furthered the advancement of women in science.

Inaugural AACR June L. Biedler Prize for Cancer Journalism

These Prizes represent an effort by the AACR to highlight, honor, and reward outstanding journalistic coverage of cancer research that enhances the public's understanding of the etiology, diagnosis, treatment, and prevention of cancer.

Please check the online Itinerary Planner and the Annual Meeting App for the times and dates of the award presentations.

www.AACR.org/ScientificAwards

▲ 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.** 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. Tume, 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