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- Distinguished Lecture: Phillip A. Sharp
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- AACR-MICR Jane Cooke Wright Memorial Lectureship
- Presidential Address

### SUNDAY, APRIL 15
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- Opening Plenary Session
- Pezcoller Foundation-AACR International Award for Extraordinary Achievement in Cancer Research
- Distinguished Lecture: Phillip A. Sharp
- AACR-Irving Weinstein Foundation Distinguished Lecture
- AACR-MICR Jane Cooke Wright Memorial Lectureship
- Presidential Address

### MONDAY, APRIL 16
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- Gertrude B. Elion Cancer Research Award Lecture
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### WEDNESDAY, APRIL 18
- Plenary Session

### TRAVEL AWARDS
- Scholar-in-Training Awards
- Faculty Scholar Awards
- Minority Scholar Awards
- Women in Cancer Research Scholar Awards
- AACR-Undergraduate Scholar Awards
Dear Colleagues and Friends of the AACR,

It is our honor and pleasure to welcome you to Chicago, Illinois for the 109th Annual Meeting of the American Association for Cancer Research (AACR). With over 22,000 laboratory researchers, clinicians, patient advocates, and other oncology professionals from around the world in attendance, the AACR Annual Meeting 2018 will continue the tradition of being the premier cancer research event in the world where the latest and most exciting basic, translational, and clinical discoveries, including cancer prevention studies, are presented and discussed.

During this past year, we have seen exciting new basic science findings, new drug approvals, and expanded use of genomic data for precision oncology. Scientists are now harnessing the power of the physical sciences, mathematics, engineering, and artificial intelligence to diagnose cancer at an earlier stage and to understand and track its progression. They are also concentrating their efforts on cancer in minorities and the medically underserved, working to eliminate the persistent disparities in cancer outcomes. These developments are reflected in the program and theme for the Annual Meeting 2018: “Driving Innovative Cancer Science to Patient Care.”

We want to thank the members of the Annual Meeting Program Committee, Education Committee, and Clinical Trials Committee for their outstanding contributions to the development of a multidisciplinary program that highlights emerging scientific areas and reflects the breadth and depth of the rapidly advancing cancer research field. We will feature new sessions on cancer health disparities that have been inspired by an important AACR presidential initiative. Issues related to survivorship will be addressed in several formats, including a special session in the memory of Dr. Jimmie C. Holland. The AACR has forged partnerships with organizations around the world, and the meeting program highlights how important global scientific collaborations are advancing cancer science. We will also hear the first major public address from the new Director of the National Cancer Institute (U.S.), Dr. Norman E. Sharpless, in which he will outline his vision and goals for the institute.

In addition to the state-of-the-art translational science that will be presented throughout the program, a record number of oncology clinical trials, i.e., over 170 completed trials or trials in progress, will be presented in various formats. Exciting trials, including several with practice-changing results, will be highlighted in the Opening Plenary Session and in Clinical Trials Plenary Sessions, which pair each trial with a presentation focusing on the science behind the trial and its implications for delivering improved care to patients. Other trials will be presented in minisymposia and other formats.

We deeply appreciate the work done by members of the Program Committee who reviewed over 6,000 proffered papers submitted to the Annual Meeting and organized them into poster discussion sessions, regular poster sessions, and minisymposia.

We are extremely grateful to the corporations, organizations, and foundations that have provided generous financial support for the AACR Annual Meeting 2018. These valued contributions help make possible this critically important forum for the exchange of scientific and clinical information that will lead to fruitful collaborations and advances in the field. Their commitment also enables the professional advancement of the next generation of leaders in cancer research through their support of a variety of educational sessions, research grants, scholar-in-training awards, and scientific merit awards.

Thank you for joining us! We encourage you to participate fully in the many discussions and networking opportunities throughout the meeting. We are confident that you will be inspired and energized by your experience at the Annual Meeting this week.

Sincerely,

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- Taiho Oncology
- Takeda Oncology

**Public Forum**
- Bristol-Myers Squibb

**Scientist ↔ Survivor Program**
- Actelion Pharmaceuticals
- Bayer Pharmaceuticals
- Celgene Corporation
- Genentech, Inc.
- Gilead Sciences, Inc.
Lilly Oncology
Novartis
Pfizer Oncology

Webcast
Novartis

Women in Cancer Research Resource Center
Bristol-Myers Squibb

RESEARCH GRANTS AND FELLOWSHIPS

AACR-Bayer Innovation and Discovery Grants
Bayer Pharmaceuticals

AACR-Clinical Immuno-oncology Research Training Fellowships
AstraZeneca-MedImmune

AACR-Johnson & Johnson Lung Cancer Innovation Science Grants
Johnson & Johnson

AACR-Neuroendocrine Tumor Research Foundation
Neuroendocrine Tumor Research Foundation

AACR-Stimulating Therapeutic Advancements through Research Training (START) Grants
AstraZeneca

AACR Gertrude B. Elion Cancer Research Award
GlaxoSmithKline

NextGen Grants for Transformative Cancer Research
American Association for Cancer Research
The Mark Foundation

Career Development Awards
Aflac, Inc.
Breast Cancer Research Foundation
Kure-It Cancer Research
Ocular Melanoma Foundation

Fellowships
American Association for Cancer Research
Amgen, Inc.
AstraZeneca
Bristol-Myers Squibb
Conquer Cancer Foundation
Debbie’s Dream Foundation: Curing Stomach Cancer
Janssen Research & Development, LLC
John and Elizabeth Leonard Family Foundation
Loxo Oncology
No Stomach for Cancer
Takeda Oncology
Triple Negative Breast Cancer Foundation
The WWWW Foundation, Inc. and The QuadW Foundation, Inc.
and Communities Foundation of Texas

SPECIAL CONFERENCE SUPPORTERS FOR 2017-2018
AbbVie, Inc.
Amgen, Inc.
Astellas Pharma, Inc,
AstraZeneca
Bayer Pharmaceuticals
Bristol-Myers Squibb
SUPPORTERS

Confirmed supporters as of March 20, 2018

Celgene Corporation
Clovis Oncology
Genentech, Inc.
Genomic Health
Gilead Sciences, Inc.
IBM
Incyte Corporation
Janssen Research & Development, LLC
The Leukemia & Lymphoma Society
Lilly Oncology
Loxo Oncology
Merck Oncology
OmniSeq
Ovarcome Foundation
Novartis
Pfizer Oncology
Regeneron
Rivkin Center for Ovarian Cancer Research
Seattle Genetics
Susan G. Komen
Takeda Oncology
TESARO, Inc.

SUSTAINING MEMBERS

Leadership Sustaining Members
Amgen, Inc.
AstraZeneca
Bayer Pharmaceuticals
Boehringer Ingelheim
Bristol-Myers Squibb
Genentech, Inc.
Merck Oncology
Novocure
Pfizer Oncology
Takeda Oncology

Strategic Sustaining Members
Incyte Corporation
Pharmacyclics

Major Sustaining Members
Astex Pharmaceuticals, Inc.
Celgene Corporation
Eisai Inc.
Gilead Sciences, Inc.
GlaxoSmithKline
Janssen Research & Development, LLC
Lilly Oncology
Novartis
Pezcoller Foundation
Sanofi Oncology
Servier
Taiho Oncology
Theradex

Associate Sustaining Member
Asana BioSciences, LLC
## OFFICES/ROOM LOCATIONS

<table>
<thead>
<tr>
<th>Room Name</th>
<th>Location</th>
<th>Opens</th>
<th>Phone #</th>
</tr>
</thead>
<tbody>
<tr>
<td>AACR Office</td>
<td>N128</td>
<td>Thursday, 6:00 a.m.</td>
<td>312-808-2150</td>
</tr>
<tr>
<td>AACR Exhibit Booth (AACRcentral)</td>
<td>Exhibit Hall A</td>
<td>Sunday, 1:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>AACR Amphitheater</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Associate Member Resource and Career Center</td>
<td></td>
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<tr>
<td>Membership Center</td>
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<tr>
<td>Minorities in Cancer Research Networking and Resource Center</td>
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<tr>
<td>Women in Cancer Research Networking and Resource Center</td>
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<tr>
<td>AACR Foundation</td>
<td>Grand Concourse Lobby</td>
<td>Saturday, 8:00 a.m.</td>
<td></td>
</tr>
<tr>
<td>AACR Publications Booth</td>
<td>Exhibit Hall A, Booth 1431</td>
<td>Sunday, 1:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CancerCareers Center</td>
<td>Grand Concourse Lobby</td>
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<tr>
<td>CME Booth</td>
<td>Grand Concourse Lobby</td>
<td>Friday, 3:00 p.m.</td>
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</tr>
<tr>
<td>Information Booth</td>
<td>Grand Concourse Lobby</td>
<td>Friday, 3:00 p.m.</td>
<td>312-791-6650</td>
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<tr>
<td>Coat and Luggage Check</td>
<td>Grand Lobby Entrance</td>
<td>Saturday, 6:30 a.m.</td>
<td></td>
</tr>
<tr>
<td>Child Care</td>
<td>N140</td>
<td>Saturday, 7:30 a.m.</td>
<td>312-808-2151</td>
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<tr>
<td>Emergency Medical Calls</td>
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<td>312-791-6060</td>
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<tr>
<td>Exhibit Management Office</td>
<td>Exhibit Hall A</td>
<td>Saturday, 9:00 a.m.</td>
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<tr>
<td>Exhibitor Lounge</td>
<td>Exhibit Hall A</td>
<td>Saturday, 9:00 a.m.</td>
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</tr>
<tr>
<td>First Aid Station</td>
<td>South Building, Level 2.5</td>
<td>Thursday, 7:00 a.m.</td>
<td></td>
</tr>
<tr>
<td>Housing Booth (CMR)</td>
<td>Grand Concourse Lobby</td>
<td>Friday, 3:00 p.m.</td>
<td>312-791-6651</td>
</tr>
<tr>
<td>Membership Hub</td>
<td>Grand Concourse Lobby</td>
<td>Saturday, 8:00 a.m.</td>
<td></td>
</tr>
<tr>
<td>NCI/NIH Resource Room</td>
<td>W191</td>
<td>Saturday, 9:00 a.m.</td>
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</tr>
<tr>
<td>Nursing Mothers Suite</td>
<td>N127</td>
<td>Saturday, 7:30 a.m.</td>
<td>312-949-8600</td>
</tr>
<tr>
<td>Press Office</td>
<td>W193</td>
<td>Saturday, 8:00 a.m.</td>
<td>312-949-8601</td>
</tr>
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<td>Registration</td>
<td>Grand Concourse Lobby</td>
<td>Friday, 3:00 p.m.</td>
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<tr>
<td>Scientist↔Survivor Program Room</td>
<td>N132</td>
<td>Saturday, 6:00 a.m.</td>
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</tr>
<tr>
<td>Speaker Preparation Room</td>
<td>S401a</td>
<td>Friday, 2:00 p.m.</td>
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</tbody>
</table>
REGISTRATION

Registration will be located in the Grand Concourse Lobby on the following schedule:

- Friday, April 13: 3:00 p.m.-7:00 p.m.
- Saturday, April 14: 7:00 a.m.-6:00 p.m.
- Sunday, April 15: 6:30 a.m.-6:00 p.m.
- Monday, April 16: 6:30 a.m.-6:00 p.m.
- Tuesday, April 17: 6:30 a.m.-6:00 p.m.
- Wednesday, April 18: 6:30 a.m.-6:00 p.m.

Spouse registration may only be purchased on-site beginning Sunday, April 15. All spouse registrations must be tied to an existing attendee record and are not available to individuals working in the cancer research field. Spouse fee includes only social activities provided during the conference and access to the poster and exhibit hall; it does NOT admit individuals to lecture sessions. The fee for spouse registration is $75.

EXHIBIT HALL

The Exhibit Hall is located in Hall A. Exhibit hours are:

- Sunday, April 15: 1:00 p.m.-5:00 p.m.
- Monday, April 16: 9:00 a.m.-5:00 p.m.
- Tuesday, April 17: 9:00 a.m.-5:00 p.m.
- Wednesday, April 18: 9:00 a.m.-12:00 p.m.

HOUSING

The AACR Housing Desk (CMR) will be available in the Grand Concourse Lobby for individuals who need assistance with their accommodations. The Housing Desk will be open during the following hours:

- Friday, April 13: 3:00 p.m.-7:00 p.m.
- Saturday, April 14: 7:00 a.m.-6:00 p.m.
- Sunday, April 15: 6:30 a.m.-6:00 p.m.
- Monday, April 16: 6:30 a.m.-6:00 p.m.
- Tuesday, April 17: 6:30 a.m.-6:00 p.m.
- Wednesday, April 18: 6:30 a.m.-10:00 a.m.

PROFESSIONAL ADVANCEMENT SESSIONS

Professional Advancement Sessions are organized to provide important skills to investigators at all levels, from high school students to senior faculty. These sessions are an exclusive benefit for AACR members. For all Professional Advancement Sessions, attendance is free for members with your Annual Meeting registration.

Participation by AACR members for all sessions is on a first-come, first-served basis, as space is limited. As an additional member benefit, webcasts of selected Professional Advancement Session presentations are now available free to AACR members in good standing. (Note: Participation in the Annual Meeting Webcast is left to the discretion of each speaker. As a result, some presentations may not be available for webcast, and some webcast presentations may not include all slides.)

The Critical Role of Physician-Scientists in Advancing Cancer Science—Suggestions for Continued Success

**Sponsored by the Science Education and Career Advancement Committee**

Friday, April 13, 2018; 5:30 p.m.-7:00 p.m.
Regency AB, Hyatt Regency McCormick Place

**Cochairs:** Ernest T. Hawk, University of Texas MD Anderson Cancer Center, Houston, TX; Jose G. Trevino II, University of Florida, Gainesville, FL

Through panel discussion and Q&A, this Professional Advancement session will explore the critical roles of physician-scientists and provide strategies for success in scientific discoveries in cancer, the clinical care of patients and/or the
health of populations, the advancement of education/mentoring, and opportunities for administrative leadership. A networking reception will immediately follow. As a new special program in 2018, the AACR is pleased to make this session available at no cost to all interested attendees and local trainees, regardless of membership. All other Professional Advancement sessions during the meeting will require AACR membership.

MEMBERSHIP

Annual Meeting participants are invited to visit the Membership Hub (Grand Concourse Lobby), the Membership Center (located in AACRcentral), and the Membership Booth (registration) to learn more about membership and the exclusive benefits available to members, join one or more Association groups within the AACR, update contact information, pay membership dues, and more. AACR Dedicated Member mementos are also available on a first-come, first-served basis.

Announcing Free Associate Membership for Early-Career Trainees

The AACR is committed to the education, training, and professional development of early-career researchers and is extremely pleased to announce that beginning in 2018, AACR Associate Membership will be free for graduate students, medical students, residents, and postdoctoral or clinical fellows who are enrolled in education or training programs that could lead to a career in cancer research. Visit the Membership Hub, Membership Center at AACRcentral, or Membership Booth (registration) to learn more about this amazing opportunity and join us in the global conquest of cancer!

Rally: Celebrating 30 Years of AOCR Associate Membership

Sunday, April 15; 2:30 p.m.-3:30 p.m. Amphitheater at AACRcentral

The AACR is celebrating 30 years of Associate Membership and supporting the education, training, and professional development of its members in training. Join AACR President Michael A. Caligiuri and AACR CEO Margaret Foti as we celebrate this milestone and hear about new and exciting programs and activities that the AACR has in store for Associate members. Anniversary mementos will also be distributed.

MEMBERSHIP HUB

AACR members are an integral part of our mission. The Membership Hub is a home base for AACR members to refresh, connect, and learn more about AACR’s events, programs, and activities during the meeting. Attendees are encouraged to engage with colleagues from around the world, join Association Groups, become more involved in AACR programs and activities, and share member experiences. Not a member? Stop by the Hub and join.

Member Appreciation Hour: Celebrating AACR Long-Term Members

Monday, April 16; 10:30 a.m.-11:30 a.m. Membership Hub, Grand Concourse Lobby

The AACR is extremely pleased to recognize its long-term members. AACR Members of 25 years and longer are invited to attend Member Appreciation Hour: Celebrating AACR Long-Term Members. This is an informal gathering to celebrate the contributions and achievements of members of 25 years and longer and thank them for their dedication to the AACR and cancer research.
AACR New Member Networking Mixer

The AACR is extremely pleased to host a New Member Networking Mixer each year to welcome newly elected members into the association and provide them with an opportunity to meet and interact with the AACR leadership, network with colleagues and forge new relationships, and learn more about exclusive member benefits and how to get involved in the association. Visit the Membership Hub, located in the Grand Concourse Lobby, for more information.

AACR-Minorities in Cancer Research Distinguished Lectureship Series
From Bench to Community: Driving Innovative Cancer Research to Patient Care and Health Equity

Friday, April 13, 2018; 3:30 p.m.-6:00 p.m.
Hosted by the University of Illinois Cancer Center

Join AACR-Minorities in Cancer Research for the Distinguished Lectureship Series entitled, “From Bench to Community: Driving Innovative Cancer Research to Patient Care and Health Equity.” Cancer disparities and inequities continue to impact underserved, vulnerable, and minority populations at disproportionate rates. Strategies aimed at improving health outcomes in cancer must address health disparities across multiple levels and be responsive to the needs of communities most at risk. This symposium will highlight innovative research that targets health disparities and inequities at the individual, health care, community, and policy levels. Integral to cancer health disparities research are the lived experiences of those impacted by cancer. This symposium offers the opportunity for faculty, students, and community members to engage in bidirectional conversations to increase awareness and understanding of how cancer research impacts our communities and the lives of those served, to link faces and stories to cancer data, and to fortify the bridge between bench research and implementation and dissemination science. This session is held in partnership with host institution University of Illinois Cancer Center. Visit www.aacr.org/micr for more information.

ANNUAL MEETING INFORMATION BOOTH

There is an Annual Meeting Information Booth located in the Grand Concourse Lobby. It will be open during session hours to provide information about the AACR, the Annual Meeting, and the city of Chicago, IL. Staff members will be available to assist you with city and convention center maps, shuttle bus schedules, and information on AACR’s programs.

SPEAKER PREPARATION ROOM

Speakers should visit the Speaker Preparation Room (Room S401A in McCormick Place South) at least four hours before their sessions begin to test their presentations. The Speaker Preparation Room will be open on Friday, April 13, from 2:00 p.m. to 6:00 p.m. daily during the meeting from 6:00 a.m. to 6:00 p.m. and will close on Wednesday, April 18, at 3:00 p.m. Please note: Speakers in sessions located in hotels should not check in at the Speaker Preparation Room. Speakers in hotel sessions should arrive at the session room 30 minutes prior to the start of the session and check in with the AV technician to upload and test presentations. Speakers cannot use personal laptops in any session rooms.
PRESS RELATIONS

The AACR Press Office is located in Room W193 of the Convention Center. It will be open from 8:00 a.m. to 6:00 p.m., Saturday, April 14; 7:30 a.m. to 6:00 p.m., Sunday, April 15 through Tuesday, April 17; and 7:30 a.m. to 12:00 p.m., Wednesday, April 18. The AACR’s press contacts are Julia Gunther, Assistant Director of Public Relations, 770-403-7690, julia.gunther@aacr.org; Rachel Salis-Silverman, Director of Public Relations, 267-970-3685, rachel.silverman@aacr.org; and Rick Buck, Senior Director of Communications and Public Relations, 856-562-5668, rick.buck@aacr.org.

CHILD CARE

Professional child care services are offered at a nominal cost in Room N140 on the following schedule:

- Saturday, April 14: 7:30 a.m.-7:00 p.m.
- Sunday, April 15: 6:30 a.m.-7:00 p.m.
- Monday, April 16: 6:30 a.m.-7:00 p.m.
- Tuesday, April 17: 6:30 a.m.-7:00 p.m.
- Wednesday, April 18: 6:30 a.m.-1:30 p.m.

As a convenience for registrants, the AACR subsidizes the cost of this service. The cost for this service to the user is $12 per hour for each child age 6 months-12 years (2-hour minimum required). Snacks and beverages are included in the fee, but meals must be provided by parents. Medication will NOT be administered by KiddieCorp. To ensure a safe and fun-filled environment, any child who is ill will not be admitted to the children’s program. Advance registration was strongly encouraged. On-site registration will be permitted as space allows.

NURSING MOTHERS SUITE

Annual Meeting participants who are also nursing mothers will find the Nursing Mothers Suite to be a private, comfortable, and secure environment in which to nourish and nurture their babies. AACR-Women in Cancer Research (WICR) is pleased to sponsor this important service again in 2018. The Nursing Mothers Suite will be available in Room N127 on the following schedule:

- Saturday, April 14: 7:30 a.m.-7:00 p.m.
- Sunday, April 15: 6:30 a.m.-7:00 p.m.
- Monday, April 16: 6:30 a.m.-7:00 p.m.
- Tuesday, April 17: 6:30 a.m.-7:00 p.m.
- Wednesday, April 18: 6:30 a.m.-1:30 p.m.

SATELLITE EDUCATIONAL SYMPOSIA

The Satellite Educational Symposia will be held in conjunction with the AACR Annual Meeting. These CME-accredited events are supported by parties other than AACR and are not part of the official program of the AACR Annual Meeting. Symposia are evaluated by the Satellite Educational Symposia Committee to ensure that the educational content will enhance that provided by the official AACR scientific program. Additional information can be found at the specially marked counter located in the Registration area in the Grand Concourse Lobby.

To view more information or register for any of these symposia, visit AACR.org/Satellite18.
GENERAL INFORMATION

Saturday, April 14 • 6:30 p.m.-9:00 p.m.
Cancer Immunotherapy Evidence, Biomarkers and Immune Combinations—Are We on the Verge of a New Generation? Bridging Research and Practice in the Quest for Better Tools to Harness the Potential of Immuno-Oncology
Chicago Hyatt Regency Hotel, Crystal Ballroom

Saturday, April 14 • 6:30 p.m.-9:00 p.m.
Interactive Tumor Panel: Clinical Investigators Discuss Available Research Shaping the Current and Future Role of Immune Checkpoint Inhibitors in the Management of Lung Cancer
Chicago Hyatt Regency Hotel, Columbus Ballroom, G-L

Sunday, April 15 • 6:30 p.m.-9.00 p.m.
Stage III NSCLC: Practical Application of Immune Checkpoint Inhibition after Chemoradiotherapy
Chicago Hyatt Regency Hotel, Crystal Ballroom, A

Sunday, April 15 • 6:30 p.m.-9:00 p.m.
Data and Perspectives: Biologic Basis for and Available Clinical Research Underlying the Protocol and Nonresearch Utilization of PARP Inhibition in Patients with Ovarian and Breast Cancer
Chicago Hyatt Regency Hotel, Crystal Ballroom, BC

Monday, April 16 • 6:30 p.m.-9:00 p.m.
Practical Application of Sequencing for EGFR-Mutant Lung Cancers: A Focus on Recent Evidence and Key Next Steps in Trials
Chicago Hyatt Regency Hotel, Crystal Ballroom, BC

GUIDE TO POSTER SESSIONS AND EXHIBITS
Limited quantities of the printed Guide to Poster Sessions and Exhibits will be distributed at the entrances to the Poster and Exhibit Hall. Pick up a copy to locate posters, browse poster session topics, and learn about exhibiting companies and the products and services they offer.

EXHIBITOR SPOTLIGHT THEATERS
Located in the Exhibit Hall, the Exhibitor Spotlight Theaters have been reserved by exhibiting companies to present special one-hour sessions during exhibit hours. For a full list of presentations taking place in Spotlight Theaters A, B, and C, please refer to the printed Guide to Poster Sessions and Exhibits, the Online Itinerary Planner, and the Annual Meeting App.

EXPLORE!
Explore! is a fun way attendees can interact with exhibitors while entering a drawing for $250 Amazon gift cards. Download the AACR Annual Meeting App. Scan the QR codes when visiting participating exhibitors and activities for a chance to win, courtesy of the AACR. Get out there, visit the exhibitors, and Explore! Winners will be notified after the meeting and prizes will be mailed shortly thereafter.
**DIGITAL PRODUCT SHOWCASE**

Visit one of the AACR Digital Product Showcase kiosks located throughout the exhibit hall, in the Grand Concourse Lobby, and on level 2.5 of McCormick Place. Attendees will be able to scan their badges to gain access to an interactive digital product gallery. In addition to being able to search the gallery, when a product is chosen it will direct the attendee to the company’s exhibit booth. Kiosks will be placed in several high-traffic locations—registration area, exhibit entrance, and throughout the exhibit hall.

**HEADSHOT LOUNGE**

Need a new headshot? Don’t forget to stop by the Headshot Lounge sponsored by Bristol-Myers Squibb, located in Hall A. Professional photographers will be available to provide you with the perfect headshot for your next business card, resume, etc. Kiosks will be set up, which will display your photos and allow you to choose at least three that will be emailed directly to you.

**CHARGING LOUNGES**

Located throughout the exhibit hall and in the registration area, these Lilly Oncology charging lounges provide attendees ample opportunity to charge their devices and take a well-deserved break during the conference.

**EXHIBITOR-HOSTED REFRESHMENT BREAKS**

Don’t miss the Exhibitor-Hosted Refreshment Breaks in the Exhibit Hall on Monday, April 16 and Tuesday, April 17, starting at 1:30 p.m. Light snacks will be available, compliments of the AACR exhibitors. Strategically located food and beverage stations are the ideal platform for interaction between attendees and exhibitors.

Coffee breaks, sponsored by Bristol-Myers Squibb, will be located in the Exhibit Hall on Sunday, April 15 through Wednesday, April 18.

**FOOD COURT**

The AACR provides an area on the show floor for all conference attendees to purchase lunch during poster and exhibit hours. The Food Court is located in the back of Hall A and serves a variety of food and beverages.

**AACRCENTRAL**

AACRcentral serves as a hub for information and services for attendees and also as an event space for various programs. Open during Exhibit Hall hours, AACRcentral is located centrally in the Exhibit Hall and is home to the Amphitheater, Associate Member Resource and Career Center, Membership Center, MICR Networking and Resource Center, and WICR Networking and Resource Center.

At AACRcentral, attendees can:

- Apply for AACR membership, learn more about AACR member benefits, and check on the status of membership.
GENERAL INFORMATION

• Participate in events organized by the Associate Member Council (AMC), Minorities in Cancer Research (MICR), Women in Cancer Research (WICR), the Science Education and Career Advancement Committee, and others.

• Find additional information on AACR’s conferences, award programs, advocacy efforts, and the AACR Foundation.

• Pick up copies of Cancer Today, AACR’s peer-reviewed journals, and Proceedings from other AACR conferences.

• Purchase tickets for the AMC and AMC Fundraising Committee “Flavor of the City” Networking and Fundraising Event.

ANNUAL RECEPTION

All Annual Meeting registrants are invited to attend the Annual Reception on Sunday evening, April 15, from 8:30 p.m. to 11:30 p.m. in the Great Lakes Ballroom of the Marriott Marquis Chicago. Complimentary light refreshments will be served, and a live band will provide music for dancing. On Sunday evening, shuttle buses will run between all AACR hotels where busing is provided during the day and the McCormick Place Convention Center. Shuttle schedules will be posted in each hotel. Each registrant will receive a voucher for a complimentary beverage at the Annual Reception with his/her registration materials.

CANCER AND BIOMEDICAL RESEARCH CAREER FAIR

The 2018 Cancer and Biomedical Research Career Fair is coming to Chicago, IL, on Saturday, April 14, from 9:00 a.m. to 3:00 p.m. in the Grand Concourse Lobby. Building upon the success of AACR’s previous Career Fairs, the 2018 Career Fair will provide many opportunities for both job seekers and employers. The Career Fair will once again bring job seekers with highly specialized scientific skills (basic and translational researchers, clinicians, and epidemiologists) together with recruiters and potential employers representing academia, cancer centers, government, and industry. Employers will be able to speak with early-career scientists as well as more experienced scientists during the Career Fair and throughout the Annual Meeting inside the CancerCareers.org Center (Grand Concourse Lobby). Registration for the Career Fair is free to job seekers.

NCI/NIH RESOURCE ROOM

The NCI/NIH Resource Room, located in Room W191 of the Convention Center, provides researchers with the opportunity to interact with NCI and NIH Program staff. Program and Review staff from the NCI as well as Review staff from CSR attend the Annual Meeting and can be available to meet at the Resource Room for discussions and consultation throughout the conference.

Researchers interested in meeting with their Program Directors should contact them ahead of the Annual Meeting to arrange a time to meet at the NCI/NIH Resource Room. Conferences can be scheduled to discuss individual grant/review questions. New investigators are especially encouraged to meet with Program staff handling grant portfolios in their area of scientific interest. A schedule along with sign-up times will be posted by the room.

The NCI/NIH Resource Room will be open from 9:00 a.m. to 5:00 p.m. Saturday through Tuesday and from 9:00 a.m. until 12:00 p.m. on Wednesday.
SCIENTIST ↔ SURVIVOR PROGRAM

The AACR Scientist ↔ Survivor Program (SSP) builds partnerships among the scientific and cancer survivor and patient advocacy communities worldwide. Launched in 1999 at the AACR Annual Meeting, the program was designed to meet the needs of both groups and offers them an unparalleled opportunity to meet and interact over several days in a stimulating and engaging atmosphere.

The program exposes advocates to special lay-language lectures, small group discussions, and other interactions that provide a solid background in cancer research. Survivor and patient advocates are able to keep abreast of recent advances in drug development and basic, clinical, and translational cancer research and be exposed to the knowledge and dedication of cancer scientists. Scientists who participate in the program gain a more personal understanding of cancer’s impact on patients and their loved ones, are exposed to the key concerns of survivor and patient advocates, and become more cognizant of the vital role that advocates play in supporting cancer research.

Promoting the exchange of information on key aspects of cancer research, survivorship, advocacy, and public policy strengthens communication and enhances efforts to accelerate progress in the fight against cancer. Feel free to visit the Scientist ↔ Survivor Advocate Poster Sessions on Monday, April 16, from 1:00 p.m. to 3:00 p.m. and Tuesday, April 17, from 8:00 a.m. to 10:00 a.m. in the Poster and Exhibit Hall. For more information on the Scientist ↔ Survivor Program, visit the SSP Resource Room located in Room N137 of the Convention Center, or email ssprogram@aacr.org.

AACR ADVOCACY PARTNERS’ PAVILION

Visit the Advocacy Pavilion in the Poster and Exhibit Hall to learn about resources and services of nonprofit cancer patient advocacy organizations. The pavilion is the ideal location to promote networking and the exchange of ideas among groups, patients, and health care professionals.

THE BODICE PROJECT

The Bodice Project is a not-for-profit sculptural exhibition that promotes emotional healing, through the arts, for women and men facing the challenges of breast cancer and life after treatment. Please visit this display in the Grand Ballroom Lobby.

AACR FOUNDATION

Join us for the AACR Runners for Research 5k Run/Walk on April 14! If you can’t make the event, you can still raise critical funds for cancer research through April 30 as a Virtual Runner at AACR.org/Research5k. To learn about all the AACR Foundation activities and how you can get involved, stop by their booth in the Grand Concourse Lobby.

ONLINE ITINERARY PLANNER AND ANNUAL MEETING APP

The Annual Meeting program is subject to change. Updates will be available in the online Itinerary Planner and the Annual Meeting App, along with full session details, including complete titles, author listings, and text for abstracts in poster sessions and minisymposia. To access the Itinerary Planner and download the Annual Meeting App, visit www.AACR.org/AACR2018.
GENERAL INFORMATION

ANNUAL MEETING WEBCASTS

Exclusive online streaming access to the audio and slides of scientific sessions presented at the AACR Annual Meeting 2018 is available free to all paid attendees. Webcasts will be available on May 9, 2018, and will include:

• Presentation slides synchronized with recorded audio presentations
• Speakers’ mouse movements captured and included in playback
• Availability on compatible mobile devices and smartphones such as iPad, iPod Touch, iPhone, and Android devices
• Presentations searchable by session title, presentation title, and speaker name
• Exclusive access to online content for 15 months after the Annual Meeting

Participation in the AACR Annual Meeting Webcast is left to the discretion of each speaker. As a result, some presentations may not be available for webcast, and some webcast presentations may not include all slides. Access is granted via individual username and password.

As in previous years, the AACR will make the Opening Ceremony, the plenary sessions, and the award lectures available free as streaming video to all interested users. To view a demo of previous webcasts, visit webcast.aacr.org.

COAT AND LUGGAGE CHECK SERVICE

Coat, package, and luggage check service will be available in the Grand Lobby Entrance on the following schedule:

Saturday, April 14  6:30 a.m.-7:00 p.m.
Sunday, April 15  6:30 a.m.-9:00 p.m.
Monday, April 16  6:30 a.m.-8:30 p.m.
Tuesday, April 17  6:30 a.m.-8:30 p.m.
Wednesday, April 18  6:30 a.m.-3:00 p.m.

SPECIAL ACCOMMODATIONS FOR ATTENDEES

The American Association for Cancer Research recognizes the importance of making its educational activities available to all interested participants of the professional medical community. This AACR educational activity is designed to accommodate all attendees and fully complies with the legal requirements of the Americans with Disabilities Act (ADA) and the rules and regulations thereof. Registrants in need of auxiliary learning aids or special requirements for hotel accommodations, transportation, or other facilities connected with this meeting should contact the AACR Office in Room N128 of the Convention Center.
CODE OF CONDUCT, POLICIES, AND PROCEDURES

The AACR Annual Meeting 2018 will bring together over 22,000 academics, scientists, pharmaceutical industry representatives, and others from across the globe. In order for all participants to have the opportunity to gain the most benefit from this conference, the AACR is committed to providing a safe and secure environment. Please review the following policies and procedures for conference participants. By registering for the AACR Annual Meeting 2018, you agree to the following terms:

• The AACR prohibits intimidating, threatening, or harassing conduct of any kind during this program. This applies to all participants—attendees, presenters, exhibitors, staff, vendors, etc.

• The AACR is committed to a safe, hospitable, and productive environment for all participants of this program, regardless of age, disability, ethnicity, gender, religion, or sexual orientation.

• The AACR expects all participants to communicate professionally and constructively, handling dissent and disagreement with courtesy, dignity, and an open mind, being respectful when providing feedback and being open to alternate points of view.

• Children under 12 years of age are not permitted in any scientific session, poster session, the exhibit hall, or any official event taking place at this program at any time. Children cannot be left unattended or unsupervised in the Convention Center.

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• Participants must obey all applicable laws and regulations of the relevant government authorities while attending this program. Participants must comply with all applicable safety guidelines related to the conference venue.

• If a session room becomes too crowded, the AACR asks you to follow instructions provided by the AACR staff, Convention Center staff, or security. Instructions may include not standing against the walls, not blocking the aisles or doors, or being denied entry if the room becomes too crowded. The AACR and all participants are obligated to abide by the guidelines established by the Fire Marshal in the Convention Center. If a room reaches full capacity and there is not full cooperation, the Fire Marshal has the authority to delay or terminate the conference.

• The AACR encourages responsible drinking for those drinking alcohol. Beer and wine will be offered at some official events throughout this program. Alcohol will not be served to anyone under the age of 21. Alcoholic beverages are allowed in specific areas and must not be taken out of these areas.
GENERAL INFORMATION

LOST AND FOUND
Anything left in any area of the Center will be taken to the AACR Security Office, Room S400c. Any item not picked up from this office by the end of the meeting will be handed over to McCormick Center Security, where it will be held for 90 days.

EMERGENCY RESPONSE PROCEDURES
If an emergency occurs, immediately call McCormick Place Security at 312-791-6060 (or 6060 from a house phone). They will contact the City of Chicago 9-1-1 Center via their direct line. McCormick Place Fire Safety and Security Officers are trained to handle emergencies and will also respond to the incident. If you choose to call 9-1-1 yourself, be sure to call McCormick Place Security at the above number immediately thereafter.

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A professional photographer and videographer may be on-site to document AACR Annual Meeting events and activities between April 14 and April 18, 2018. Photographs and video footage are the sole property of AACR. By registering for and attending these events, attendees understand that AACR may use their likenesses for future promotional purposes. If you do not wish to be photographed, please notify the photographer and/or videographer on-site.

CONTINUING MEDICAL EDUCATION (CME)
Accreditation Statement
The American Association for Cancer Research (AACR) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education activities for physicians.
Credit Designation Statement

AACR has designated this live activity for a maximum of 43.0 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Credit certification for individual sessions may vary, depending upon compliance with the ACCME Accreditation Criteria. The final number of credits may vary from the maximum number indicated above.

Claiming CME Credit

Physicians and other health care professionals seeking AMA PRA Category 1 Credit(s)™ for this live continuing medical education activity must complete the CME Request for Credit Survey by Wednesday, May 30, 2018. Certificates will only be issued to those who complete the survey. The Request for Credit Survey will be available via a link on the AACR website at www.aacr.org/am18cme and via email.

Your CME certificate will be sent to you via email after the completion of the activity.

Statement of Educational Need, Target Audience, and Learning Objectives

The fight against cancer is rapidly progressing, with the accelerating pace of discoveries in the basic, translational, and clinical sciences. This is due in large part to the advent of new technologies, such as advanced live imaging techniques and liquid biopsies, and our increased understanding of the importance of the contribution of the immune system to cancer and development of new immunotherapies. However, understanding and combating the processes of cancer initiation, progression, and response to treatment require a multidisciplinary approach. This meeting will bring together cancer biologists and clinical oncologists with engineers and physical scientists to develop quantitative approaches and ask new questions to develop better strategies for curing cancer. By bridging the gap between what physicians understand about cancer biology and the clinical applications, this meeting aids basic researchers, physicians, and clinician-scientists in obtaining, synthesizing, and integrating the most current molecular-based tests to aid in the diagnosis, treatment, and prevention of cancer. Further, facilitating the interface between physicians and scientists will increase the contributions of laboratory research to drug development as well as patient care; transform the design and conduct of clinical research protocols; and create a forum for the rapid translation of laboratory research findings from “bench-to-bedside” for the benefit of improving patient outcomes. This meeting also acts as a forum for the exchange of information between scientists and clinicians about the epidemiologic implications of cancer incidence, in the effort to eliminate cancer health disparities.

Despite the tremendous progress in the field, cancer continues to be an enormous public health challenge worldwide, accounting for one in every four deaths that occur around the world. In the United States (U.S.) alone, it is predicted that 600,920 people will die from some form of cancer in 2017, making it the second most common cause of death after heart disease. One of the challenges we face is that cancer comprises more than 200 different diseases. For many of the most commonly diagnosed cancers in the U.S.—including lung, prostate, ovarian, and cervical cancer—incidence has been declining for
more than a decade. However, incidence of other forms of cancer—including endometrial, liver, thyroid, and childhood cancer and leukemia—has been on the rise. Overall five-year relative survival rates for U.S. patients vary widely depending on the form of cancer and the stage at which it is diagnosed. Incidence, diagnosis, access to treatment, and survival rates are also impacted by the cancer health disparities that exist in certain segments of the U.S. population, with older and underprivileged populations often witnessing higher incidences of cancer and mortality.

This conference will bring together over 21,000 investigators from the basic, translational, and clinical disciplines and provide them with a venue to discuss their recent advances, test new hypotheses, and establish new collaborations. In order to provide the most advanced technologies and treatments, it is critical to bridge the gap between physicians who are answering fundamental questions about cancer biology and clinicians who are applying the latest diagnostic and treatment advances to patient care. As the incidence of cancer continues to increase, the fields of cancer prevention and early interception offer unprecedented opportunities to decrease the worldwide burden of cancer.

After participating in this CME activity, physicians should be able to:

1. Assess the technological advances and tools, such as liquid biopsies, being used to accelerate progress in cancer research and improve early detection and early interception, with the ultimate goal of extending patients’ lives and improving their quality of life

2. Articulate how advances in precision cancer medicine are leading to improved patient outcomes

3. Incorporate the latest research findings regarding therapies and treatment options, including immunotherapy, in a variety of cancer types to improve patient outcomes

4. Formulate new strategies integrating multidisciplinary scientific and clinical research efforts towards the prevention and early detection of cancer

5. Identify factors that impact the diagnosis, treatment, and prevention of various forms of cancers in patients from different populations

6. Develop collaborations among physicians, researchers, and clinician-scientists to advance the cause of treating and preventing cancer

Disclosure Statement
It is the policy of the AACR that the information presented at AACR CME activities will be unbiased and based on scientific evidence. To help participants make judgments about the presence of bias, AACR will provide information that Scientific Program Committee members and speakers have disclosed about financial relationships they have with commercial entities that produce or market products or services related to the content of this CME activity. This disclosure information will be made available in the meeting app, online planner, or conference website.
Acknowledgment of Financial or Other Support
This activity is supported by grants and will be disclosed at the activity.

Questions about CME?
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McCormick Place
Area Overview
McConnell Place
Area Overview
MCCORMICK PLACE SOUTH • Levels 3, 4, and 5

McCormick Place South | Level 3
EDUCATIONAL SESSION • 8:00 a.m.–10:00 a.m.

Room S402, McCormick Place South (Level 4)
Cancer Genomics to Targeted Therapies in Thyroid Cancer
Chair: Manisha H. Shah, Columbus, OH

8:00 a.m. Overview of thyroid cancer: Epidemiology to state-of-art standard of care. Steven I. Sherman, Houston, TX
8:20 a.m. Cancer genomics: Well to poorly differentiated thyroid carcinoma. James A. Fagin, New York, NY
8:45 a.m. Discovering targeted therapies of thyroid cancer using Drosophila models. Ross L. Cagan, New York, NY
9:05 a.m. BRAF-targeted therapy and mechanisms of resistance in thyroid cancer clinical trials. Manisha H. Shah, Columbus, OH

Room S406 (Vista Ballroom), McCormick Place South (Level 4)
Emerging Methods for Quantitative Functional Genomic Analysis
Chair: Martin Hirst, Vancouver, BC, Canada

8:00 a.m. Sequence-based DNA methylation analysis. Martin Hirst, Vancouver, BC, Canada
8:30 a.m. High-resolution profiling of protein-DNA interaction dynamics. Steven Henikoff, Seattle, WA
9:00 a.m. How and why look for clusters of cis-regulatory elements (COREs, aka super-enhancers) in cancer. Mathieu Lupien, Toronto, ON, Canada
9:30 a.m. 3D genome organization in cancer. Feng Yue, Hershey, PA

Room S100 (Grand Ballroom), McCormick Place South (Level 1)
Metabolic Landscapes and Reprogramming for Cancer Therapy
Chair: Peter Carmeliet, Leuven, Belgium

8:00 a.m. Angiogenesis revisited: Role and (therapeutic) implications of endothelial metabolism. Peter Carmeliet, Leuven, Belgium
8:30 a.m. Reprogram the tumor microenvironment by interrupting glutamine metabolism. Ping-Chih Ho, Epalinges, Switzerland
9:00 a.m. Autophagy and cellular metabolism in cancer progression and treatment. Eileen P. White, New Brunswick, NJ
9:30 a.m. Title to be announced. Navdeep S. Chandel, Chicago, IL

**Program as of March 20, 2018**
Room S504, McCormick Place South (Level 5)
**Methods for Translational Research to Address Cancer Health Disparities**

**Chair:** Chanita Hughes-Halbert, Charleston, SC

8:00 a.m.  **Defining populations at risk for disparities based on social determinants and genetic ancestry.** Rick A. Kittles, Duarte, CA

8:40 a.m.  **A sociobiologic framework for precision medicine and minority men’s health.** Chanita Hughes-Halbert, Charleston, SC

9:20 a.m.  **Population and tumor heterogeneity in cancer genome science and precision oncology.** John D. Carpten, Los Angeles, CA

Room S103, McCormick Place South (Level 1)
**Recent Advances and Opportunities in Small Cell Lung Cancer (SCLC) Research**

**Chair:** Lauren Averett Byers, Houston, TX

8:00 a.m.  **Genomics of small cell lung cancer.** Julie George, Cologne, Germany

8:30 a.m.  **Modeling genetically defined subsets of small cell lung cancer using mice.** David Macpherson, Seattle, WA

9:00 a.m.  **Opportunities for targeted and immune therapies in SCLC.** Christine L. Hann, Baltimore, MD

9:30 a.m.  **Translational research in SCLC: Emerging biomarkers and potential of liquid biopsies.** Lauren Averett Byers, Houston, TX

Room S501, McCormick Place South (Level 5)
**Response and Resistance to CDK4/6 Inhibitors in Breast Cancer**

**Chair:** Nikhil Wagle, Boston, MA

8:00 a.m.  **Targeting CDKs in the treatment of breast cancer.** Nicholas C. Turner, London, United Kingdom

8:30 a.m.  **Identifying clinical biomarkers for CDK4/6 inhibitors.** Fabrice Andre, Villejuif, France

9:00 a.m.  **Biologic mechanisms underlying the sensitivity of ER+ cancers to CDK4/6i.** Sarat Chandarlapaty, New York, NY

9:30 a.m.  **Mechanisms of intrinsic and acquired resistance to CDK4/6 inhibitors.** Nikhil Wagle, Boston, MA
SATURDAY, APRIL 14**

Room S404, McCormick Place South (Level 4)
**Rethinking Immunotherapeutic Approaches to Pediatric Solid Malignancies**

Chair: John M. Maris, Philadelphia, PA

8:00 a.m.  Probing the surface proteome for immunotherapy targets in high-risk pediatric cancers.  Poul H. B. Sorensen, Vancouver, BC, Canada

8:30 a.m.  Activating innate and adaptive immune responses via in situ vaccination.  Paul Sondel, Madison, WI

9:00 a.m.  Targeting children’s solid cancer through cellular engineering.  John Anderson, London, United Kingdom

9:30 a.m.  Slowly but surely: HER2-specific CAR T cells for pediatric cancers.  Nabil Ahmed, Houston, TX

Room S106, McCormick Place South (Level 1)
**RNA Metabolism in Cancer**

Chair: Omar Abdel-Wahab, New York, NY

8:00 a.m.  Understanding and targeting RNA splicing factor mutations in cancer.  Omar Abdel-Wahab, New York, NY

8:30 a.m.  The functional impact of alternative splicing in cancer.  Eduardo Eyras, Barcelona, Spain

9:00 a.m.  Targeting RNA post-transcriptional processing by inhibition of protein arginine methyltransferases.  Ernesto Guccione, New York, NY

9:30 a.m.  From genetics to cancer therapeutics: New frontiers in the RNA world.  Thomas F. Westbrook, Houston, TX

Room S105, McCormick Place South (Level 1)
**Theoretical Approaches to Fundamental Issues in Cancer**

Cochairs: Krastan B. Blagoev, Alexandria, VA; Herbert Levine, Houston, TX

8:00 a.m.  Quantifying mutational signatures in cancer.  Ludmil B. Alexandrov, La Jolla, CA

8:30 a.m.  Quantitative analysis of tumor growth in advanced human cancers and cancer (stem) cells.  Krastan B. Blagoev, Alexandria, VA

9:00 a.m.  Quantitative approach to immune system diversity.  Aleksandra Walczak, Paris, France

9:30 a.m.  The role of epithelial plasticity in the transition to metastatic disease.  Mohit Kumar Jolly, Houston, TX

**Program as of March 20, 2018**
N Hall C, McCormick Place North (Level 1)

**Tumor Immunology and Immunotherapy for Nonimmunologists: Understanding and Intervening in the Immune Response from Premalignancy to Metastatic Disease**

**Chair:** Steven M. Dubinett, Los Angeles, CA

**8:00 a.m.** The potential for cancer immunoprevention. Mary L. Disis, Seattle, WA

**8:30 a.m.** The immune landscape in premalignancy. Steven M. Dubinett, Los Angeles, CA

**9:00 a.m.** Opportunities beyond checkpoint. Robert H. Vonderheide, Philadelphia, PA

**9:30 a.m.** Neutralizing immune-suppressive myeloid cells. Dmitry I. Gabrilovich, Philadelphia, PA

Room N228, McCormick Place North (Level 2)

**The Use and Abuse of Chemical Probes: Ensuring Best Practice for Interrogating Biology and Target Validation**

**Chair:** Paul Workman, London, United Kingdom

**8:00 a.m.** The good, the bad and the ugly: Choose your chemical probes wisely to explore cancer biology. Paul Workman, London, United Kingdom

**8:30 a.m.** Harnessing large-scale public data for the objective assessment of chemical probes. Albert A. Antolin, London, United Kingdom

**9:00 a.m.** Chemical probe standards: From bench to journal pages. Milka Kostic, Boston, MA

**9:30 a.m.** Oncology target validation with chemical probes: Exploring polycomb repressive complex 1 function in cancer. Stephen V. Frye, Chapel Hill, NC
SATURDAY, APRIL 14**

METHODS WORKSHOP • 8:00 a.m.–10:00 a.m.

Room N227, McCormick Place North (Level 2)
Advances in Patient-Derived Xenograft Modeling in Cancer
Chair: Leonard D. Shultz, Bar Harbor, ME
8:00 a.m.  Next-generation humanized mice in cancer research. Leonard D. Shultz, Bar Harbor, ME
8:30 a.m.  Targeting the innate immune response in models of leukemia and lymphoma. David M. Weinstock, Boston, MA
9:00 a.m.  Understanding clonal complexity of human hematologic malignancies by single-cell genomics and PDX modeling. Fumihiko Ishikawa, Kanagawa, Japan
9:30 a.m.  Integrated genomics for PDX. Carol J. Bult, Bar Harbor, ME

Room S102, McCormick Place South (Level 1)
Clinical Trial Design Part 1: Clinical Trial Design for Targeted Therapies
Chair: Tatiana Prowell, Silver Spring, MD
8:00 a.m.  Trial designs for targeted cancer therapies: The case for being inclusive. Tatiana Prowell, Silver Spring, MD
8:30 a.m.  Trial designs for targeted cancer therapies: Tackiling primary and secondary resistance. Keith T. Flaherty, Boston, MA
9:00 a.m.  Incorporation of circulating biomarkers in targeted cancer therapy trials. Lecia V. Sequist, Boston, MA

Room N427, McCormick Place North (Level 4)
Knowledgebases for Precision Medicine: Variant Interpretation and Clinical Trial Matching
Chair: Obi Lee Griffith, St. Louis, MO
8:00 a.m.  Using the Cancer Genome Interpreter for gene panel design and variant interpretation. David Tamborero, Barcelona, Spain
8:30 a.m.  Using cBioPortal and oncoKB to interpret cancer driver and clinically actionable variants. Debyani Chakravarty, New York, NY
9:00 a.m.  MatchMiner: Matching variants to precision medicine clinical trials. Catherine A. Del Vecchio Fitz, Boston, MA
9:30 a.m.  CIViC: Best practices for curating germline and somatic cancer variants. Obi Lee Griffith, St. Louis, MO

**Program as of March 20, 2018
Oncology Biomarker Detection, Characterization, and Quantification by Mass Spectrometry

Chair: Ahmed M. Aman, Toronto, ON, Canada

8:00 a.m. Intraoperative tumor grading through rapid lipidomic profiling with picosecond infrared laser mass spectrometry (PIRL-MS). Arash Zarrine-Afsar, Toronto, ON, Canada

8:30 a.m. Application of mass spectrometry in CANscript: A patient-derived ex-vivo platform for biomarker discovery in cancer. Aaron J. Goldman, Cambridge, MA

9:00 a.m. Urinary prostaglandin E2 metabolites as biomarkers in cancer. Ginger L. Milne, Nashville, TN

9:30 a.m. Recent advances in mass spectrometry-based oncology biomarker discovery. Ahmed M. Aman, Toronto, ON, Canada

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

Great Lakes A-D, Marriott Marquis Chicago Hotel

Thirteenth Annual AACR Undergraduate Student Caucus and Poster Competition (not eligible for CME credit)

Chair: Kathleen W. Scotto, New Brunswick, NJ

Moderators: Beverly D. Lyn-Cook, Jefferson, AR
Jose G. Trevino, Gainesville, FL

9:40 a.m. Special remarks from the AACR President. Michael A. Caligiuri, Duarte, CA

9:50 a.m. Understanding cancer. Ernest T. Hawk, Houston, TX

10:10 a.m. Message from a cancer survivor. Desiree Walker, New York, NY

10:25 a.m. Navigating the Annual Meeting. Elaine R. Mardis, Columbus, OH

Prize distribution. Margaret Foti, AACR CEO, Philadelphia, PA
EDUCATIONAL SESSION • 10:15 a.m.–12:15 p.m.

Room S106, McCormick Place South (Level 1)
**Autophagy in Cancer Therapy**
Chair: Andrew M. Thorburn, Aurora, CO

10:15 a.m.  **Autophagy overview and roles in tumor cell death.** Andrew M. Thorburn, Aurora, CO

10:45 a.m.  **Autophagy in tumor progression to metastasis.** Kay F. Macleod, Chicago, IL

11:15 a.m.  **Autophagy in the tumor immune response.** Lorenzo Galluzzi, New York, NY

11:45 a.m.  **Targeting autophagy in the clinic and next-generation autophagy drugs.** Ravi K. Amaravadi, Philadelphia, PA

Room N427, McCormick Place North (Level 4)
**Basket Trials for Precision Oncology**
Chair: David B. Solit, New York, NY

10:15 a.m.  **Introduction.** David B. Solit, New York, NY

10:30 a.m.  **Prospective tumor genomic profiling to guide targeted therapy treatment.** Gopa Iyer, New York, NY

11:05 a.m.  **Basket trials for patients with rare oncogenic drivers.** Stephen M. Rothenberg, Stamford, CT

11:40 a.m.  **Using molecular features of tumors to discover signals of activity for targeted treatments in cancer: Lessons learned from NCI precision oncology trials.** Barbara A. Conley, Rockville, MD

Room S100 (Grand Ballroom), McCormick Place South (Level 1)
**Big Data, Deep Learning, and AI Methods for Cancer Analysis**
Chair: Anna Goldenberg, Toronto, ON, Canada

10:15 a.m.  **Deep learning approaches to predict and interpret noncoding regulatory elements and disease-associated genetic variants.** Anshul Kundaje, Stanford, CA

10:45 a.m.  **Biomarker discovery from big pharmacogenomic data.** Benjamin Haibe-Kains, Toronto, ON, Canada

11:15 a.m.  **Modeling drug response using deep learning.** Anna Goldenberg, Toronto, ON, Canada

11:45 a.m.  **Deep learning for pathology.** Aditya Khosla, Cambridge, MA

**Program as of March 20, 2018**
Room S105, McCormick Place South (Level 1)

Cancer Evolution: Biologic and Clinical Significance of Intratumoral Heterogeneity

Chair: A. Sorana Morrissy, Calgary, AB, Canada

10:15 a.m. Measuring intratumoral heterogeneity: From genomic data to clinical implications. A. Sorana Morrissy, Calgary, AB, Canada

10:45 a.m. The power of selection: Learning how evolutionary dependencies shape cancer. Giovanni Ciriello, Lausanne, Switzerland

11:15 a.m. Integrative approaches to understanding the interplay of molecular mechanisms influencing tumor evolution. Nicholas McGranahan, London, United Kingdom

11:45 a.m. Experimental approaches for distinguishing genomic and functional tumor cell heterogeneity. Peter B. Dirks, Toronto, ON, Canada

Room W190, McCormick Place West (Level 1)

Computational Methods for Cancer Genomics Research

Chair: X. Shirley Liu, Boston, MA

10:15 a.m. ITCR program overview. Juli Klemm, Rockville, MD

10:26 a.m. Analyze your functional genomics data in the context of public data on Xena. Jingchun Zhu, Santa Cruz, CA

10:37 a.m. Visualize and analyze cancer genomics data through cBioPortal. Tali Mazor, Boston, MA

10:48 a.m. Integrative genomics viewer. Michael M. Reich, La Jolla, CA

10:59 a.m. Interactive next-generation clustered heat maps for TCGA. John N. Weinstein, Houston, TX

11:10 a.m. Analysis of cancer variants through CRAVAT. Rachel Karchin, Baltimore, MD

11:21 a.m. Cancer transcriptome analysis through Trinity. Brian Haas, Cambridge, MA

11:32 a.m. Model cancer gene regulation through Cistrome. X. Shirley Liu, Boston, MA

11:43 a.m. The Cancer Proteome Atlas (TCPA). Han Liang, Houston, TX

11:54 a.m. Build, share, and publish biologic networks using NDEx, the Network Data Exchange. Dexter R. Pratt, La Jolla, CA

12:05 p.m. Discussion
**Educational Session (cont’d)**

**SATURDAY, APRIL 14**

Room N227, McCormick Place North (Level 2)

**Development of Brain Penetrant Inhibitors: From Genomics to the Clinic**

*Chair: Priscilla K. Brastianos, Brookline, MA*

- **10:15 a.m.** Therapeutic targets in primary and metastatic brain tumors. Priscilla K. Brastianos, Brookline, MA
- **10:45 a.m.** Use and limitations of patient derived xenograft models for drug discovery in brain tumors. Jann N. Sarkaria, Rochester, MN
- **11:15 a.m.** Brain penetrant kinase chemotherapeutics: Learnings from CNS discovery. Mary M. Mader, Indianapolis, IN (*not eligible for CME credit*)
- **11:45 a.m.** Development of CNS targeted therapies: Case studies. Pratik S. Multani, San Diego, CA

Room S103, McCormick Place South (Level 1)

**From Chemistry to the Clinic: Part 1—Chemical Probes for Identifying and Validating Drug Targets**

*Chair: Angela N. Koehler, Cambridge, MA*

- **10:15 a.m.** Why do we need chemical probes for cancer research? Angela N. Koehler, Cambridge, MA
- **10:45 a.m.** Strategies for discovery, characterization and use of covalent inhibitors as chemical probes. Sara J. Buhrlage, Boston, MA
- **11:15 a.m.** Redefining druggability using chemoproteomic platforms. Daniel Nomura, Berkeley, CA
- **11:45 a.m.** Chemical genetics updated: Unanticipated insights from chemical probes. John Tallarico, Cambridge, MA

Room S402, McCormick Place South (Level 4)

**Harnessing the Power of Mouse Models to Deconstruct Cancer Pathways and Understand Therapeutic Responses**

*Chair: Laura D. Attardi, Stanford, CA*

- **10:15 a.m.** Deciphering p53 transcriptional programs in tumor suppression. Laura D. Attardi, Stanford, CA
- **10:45 a.m.** Altered nucleolar trafficking of the Blm helicase in the mouse reduces size, increases DNA damage and tumor susceptibility, and facilitates premature aging. Joanna L. Groden, Columbus, OH
- **11:15 a.m.** Mouse models of lung cancer to decipher molecular and therapeutically relevant subtypes. Trudy G. Oliver, Salt Lake City, UT
- **11:45 a.m.** Leveraging mouse models to study therapeutic resistance in lung cancer. Katerina A. Politi, New Haven, CT

**Program as of March 20, 2018**
Room S406 (Vista Ballroom), McCormick Place South (Level 4)

**Impact of the Microbiome in Cancer Immunity**

**Chair:** Jennifer A. Wargo, Houston, TX

**10:15 a.m.** Title to be announced. Nadim Jose Ajami, Houston, TX

**10:45 a.m.** The influence of the microbiome on chemotherapy and immunotherapy response. Laurence Zitvogel, Villejuif, France

**11:15 a.m.** Modulating the microbiome to enhance responses to therapy. Jennifer A. Wargo, Houston, TX

**11:45 a.m.** The role of the intestinal microbiota in hematopoietic cell transplantation. Marcel Van Den Brink, New York, NY

Room N228, McCormick Place North (Level 2)

**Old and New Puzzles in the Genetic Epidemiology of Cancer**

**Chair:** Peter Kraft, Boston, MA

**10:15 a.m.** Assessing the shared genetic basis of different cancers. John S. Witte, San Francisco, CA

**10:45 a.m.** Integrating functional data in post-GWAS studies. Bogdan Pasaniuc, Los Angeles, CA

**11:15 a.m.** Gene-environment interplay and cancer: Epidemiologic evidence. Peter Kraft, Boston, MA

**11:45 a.m.** Clinical utility of cancer risk models: What to expect from polygenic risk scores. Ruth Pfeiffer, Bethesda, MD

Room W196, McCormick Place West (Level 1)

**Tumor Immunology and Immunotherapy for Nonimmunologists: Roundtable Discussions**

**Chair:** Olivera J. Finn, Pittsburgh, PA

**Roundtable Faculty and Topics:**

**Changing the tumor microenvironment to boost the anticancer immune response.** Emmanuel T. Akporiaye, Portland, OR

**Epitope identification.** Karen S. Anderson, Tempe, AZ

**Cancer immunotherapy: Clinical and translational research opportunities.** Michael B. Atkins, Washington, DC
Not all tumor neoantigens are born equal. Luigi Buonaguro, Naples, Italy

Human immune monitoring and biomarkers. Lisa H. Butterfield, Pittsburgh, PA

Cancer immunotherapy trials. Martin A. Cheever, Seattle, WA

Topic to be announced. Raphael Clynes, Monrovia, CA

Topic to be announced. Brian J. Czerniecki, Tampa, FL

Autoimmune adverse events following checkpoint blockade therapy. Kavita Dhodapkar, New Haven, CT

The roles of cancer vaccines as part of combination immunotherapy. Mary L. Disis, Seattle, WA

In situ vaccination with intratumoral dendritic cells. Steven M. Dubinett, Los Angeles, CA

Topic to be announced. Marc S. Ernstoff, Buffalo, NY

The role of the CXCR4 pathway of T-cell exclusion in immune escape by cancer. Douglas T. Fearon, Cold Spring Harbor, NY

Topic to be announced. Olivera J. Finn, Pittsburgh, PA

Myeloid-derived suppressor cells and other myeloid cells in cancer. Dmitry I. Gabrilovich, Philadelphia, PA

Topic to be announced. Jerome Galon, Paris, France

Immunity and immune evasion in hematologic malignancies. Justin P. Kline, Chicago, IL

Cancer vaccines. Keith L. Knutson, Jacksonville, FL

Role of bone marrow myeloid-derived suppressor cells in hematologic malignancies. Yulia Nefedova, Philadelphia, PA


Engineering T cells with lentiviral vector: A practical approach to CAR-T. Rimas J. Orentas, Gaithersburg, MD

Topic to be announced. Laszlo G. Radvanyi, Billerica, MA

Unique tumor-specific antigens: Mutant neoantigens. Hans Schreiber, Chicago, IL

Contribution of dendritic cells to the antitumor immune response. Stefani Spranger, Cambridge, MA

Clinical studies with myeloid-derived suppressor cells. James E. Talmadge, Omaha, NE

Topic to be announced. Robert H. Vonderheide, Philadelphia, PA

Topic to be announced. Theresa L. Whiteside, Pittsburgh, PA

**Program as of March 20, 2018
METHODS WORKSHOP • 10:15 a.m.–12:15 p.m.

Room S102, McCormick Place South (Level 1)
**Clinical Trial Design Part 2: Dose-Finding**

**Chair:** Steven Piantadosi, Los Angeles, CA

10:15 a.m. **Introduction: Historical and methodologic perspective.** Steven Piantadosi, Los Angeles, CA

10:45 a.m. **Overview of dose-finding designs and strategies.** Mark Conaway, Charlottesville, VA

11:15 a.m. **Practical issues conducting dose-finding trials.** Xiaobu Ye, Baltimore, MD

11:45 a.m. **Extending the CRM for general dose-finding.** Steven Piantadosi, Los Angeles, CA

N Hall C, McCormick Place North (Level 1)
**Liquid Biopsy Meets Cancer Epigenomics**

**Chair:** Daniel Diniz De Carvalho, Toronto, ON, Canada

10:15 a.m. **Highly sensitive tumor detection and classification using methylome analysis of plasma cfDNA.** Daniel Diniz De Carvalho, Toronto, ON, Canada

10:45 a.m. **Noninvasive detection of cancers in plasma with DNA methylation haplotypes.** Kun Zhang, La Jolla, CA

11:15 a.m. **CancerLocator: Harnessing the diagnostic potential of cell-free DNA methylation.** Jasmine Xianghong Zhou, Los Angeles, CA

11:45 a.m. **Epigenetic traces in plasma DNA.** Michael R. Speicher, Graz, Austria

**Title to be announced.** Yuval Dor, Jerusalem, Israel
SATURDAY, APRIL 14**

Room S404, McCormick Place South (Level 4)

**Multiplex Imaging of Tumor Tissues: Techniques and Data Analysis**

Chair: Janis Marie Taube, Baltimore, MD

10:15 a.m.  **Multiplexed IHC consecutive staining on a single slide and image analysis.**  
Sacha Gnjatic, New York, NY

10:45 a.m.  **Developing and validating a multispectral, multiplexed IF assay.**  
Janis Marie Taube, Baltimore, MD

11:15 a.m.  **Application of multiplexed immunofluorescence and digital image analysis to define the immune microenvironment of classical Hodgkin lymphoma.**  
Scott Rodig, Boston, MA

11:45 a.m.  **Multiplexed measurement of protein targets using imaging mass cytometry and digital spatial profiling.**  
David L. Rimm, New Haven, CT

**REGULATORY SCIENCE AND POLICY SESSION**  
• 10:15 a.m.–12:15 p.m.

Room S401bcd, McCormick Place South (Level 4)

**NGS Oncopanels: Regulatory Considerations**  
(not eligible for CME credit)

Chair: Reena Philip, Silver Spring, MD
You Li, Silver Spring, MD
Yali Li, Cambridge, MA
Katherine B. Szarama, Baltimore, MD
Ahmet Zehir, New York, NY

**Program as of March 20, 2018**
EDUCATIONAL SESSION • 1:00 p.m.–3:00 p.m.

Room N227, McCormick Place North (Level 2)
Autoimmunity Meets Tumor Immunity on the Road to Nucleic Acids Sensing

Chair: Sandra Demaria, New York, NY

1:00 p.m. The role of nucleic acids in type I interferon-mediated inflammation and autoimmunity. Keith Elkon, Seattle, WA
1:30 p.m. Cytosolic DNA links genome instability with innate immunity. Andrew Jackson, Edinburgh, United Kingdom
2:00 p.m. Clinical implications of disrupting the DNA damage response in cancer therapy. Kevin J. Harrington, London, United Kingdom
2:30 p.m. Genotoxic treatment-induced DNA sensing in the context of immunotherapy. Sandra Demaria, New York, NY

Room S105, McCormick Place South (Level 1)
Biosimilars: Biologic Science, Regulatory Science, and Clinical Practice

Chair: Sara A. Hurvitz, Santa Monica, CA

1:00 p.m. Biosimilar biologic products: The US FDA perspective. Joseph Franklin, Silver Spring, MD
1:30 p.m. Biologic complexity: Implications for biosimilar development. Simon Hotchin, Thousand Oaks, CA
2:00 p.m. Biosimilar development: Clinical implications and applications. Sara A. Hurvitz, Santa Monica, CA
2:30 p.m. Biosimilar regulatory policy: Understanding the landscape and relevance to medical practice presentation. Sue Lim, Rockville, MD

Room S106, McCormick Place South (Level 1)
Cancer Prevention and Early Diagnosis in Low- and Middle-Income Countries (LMICs)

Chair: Benjamin O. Anderson, Seattle, WA

1:00 p.m. Introduction. Benjamin O. Anderson, Seattle, WA
1:10 p.m. Cancer prevention and early diagnosis: Regional issues facing Latin America and the Caribbean. Silvana Luciani, Washington, DC
1:30 p.m. Cervical cancer prevention strategies for LMICs: How in the world do we do it? Ophira Ginsburg, New York, NY
1:50 p.m. Colorectal cancer early diagnosis in low- and middle-income countries. Katherine Van Loon, San Francisco, CA

2:20 p.m. Resource-stratified guidelines and phased implementation: Where the rubber hits the road in LMICs. Benjamin O. Anderson, Seattle, WA

Room S404, McCormick Place South (Level 4)

**Computational Methods for Characterizing Tumor Evolution**

Chair: Christina Curtis, Stanford, CA

1:00 p.m. Phylogenetic inference of migration patterns in metastatic cancers. Benjamin J. Raphael, Princeton, NJ

1:30 p.m. Cancer evolution measured at single-cell resolution. Sohrab Shah, Vancouver, BC, Canada

2:00 p.m. Quantifying patient-specific evolutionary dynamics. Christina Curtis, Stanford, CA

2:30 p.m. Timing landmark events in cancer evolution using molecular clocks. Peter J. Campbell, Cambridge, United Kingdom

Room S103, McCormick Place South (Level 1)

**From Chemistry to the Clinic: Part 2—Lead Optimization in Cancer Drug Discovery and Development, Multifactorial Optimization from Early Hits to Drug Candidates**

Cochairs: Philip Jones, Houston, TX; John Yuan Wang, Andover, MA

1:00 p.m. Introduction: Lead optimization, getting all the right characteristics into a single molecule. Philip Jones, Houston, TX

1:03 p.m. Discovery and evolution of orally bioavailable selective estrogen receptor degraders for ER+ breast cancer: From GDC-0810 to GDC-0927. Xiaojing Wang, San Francisco, CA

1:30 p.m. Discovery of BLU-554: A potent and highly selective covalent FGFR4 inhibitor for targeted treatment of advanced hepatocellular carcinoma. Chandra V. Miduturu, Cambridge, MA

2:00 p.m. Discovery of H3B-8800: A novel, orally bioavailable, small-molecule SF3b modulator. Dominic J. Reynolds, Cambridge, MA

2:30 p.m. Indoleamine-2,3-dioxygenase: The journey from a surprising mechanism of inhibition to an exciting clinical candidate. Aaron Balog, Princeton, NJ
Room S402, McCormick Place South (Level 4)
Genetic, Epigenetic, and Cellular Context Driving Pediatric Brain Tumor Development

Chair: Annie A. Huang, Toronto, ON, Canada

1:00 p.m. Reinforcing vulnerable epigenetic states in rare embryonal pediatric brain tumors. Annie A. Huang, Toronto, ON, Canada

1:30 p.m. Uncovering context-dependent drivers in embryonal brain tumors using transposon modeling. David A. Largaespada, Minneapolis, MN

2:00 p.m. Cell context and consequence of oncogenic histone mutations in pediatric gliomas. Suzanne J. Baker, Memphis, TN

2:30 p.m. Leveraging chromatin states to pinpoint therapeutic targets in pediatric ependymoma. Stephen C. Mack, Houston, TX

Room N427, McCormick Place North (Level 4)
Hijacking the Epigenome in Cancer: Challenges and Opportunities

Chair: Nada Jabado, Montreal, QC, Canada

1:00 p.m. Introduction: Epigenetic-driven cancers: Challenges and opportunities. Nada Jabado, Montreal, QC, Canada

1:02 p.m. Histone H3 variants and human cancer. Peter W. Lewis, Madison, WI

1:30 p.m. Subgroup-specific enhancer hijacking in medulloblastoma. Paul A. Northcott, Memphis, TN

2:00 p.m. Deregulation of H3K36 methylation pathways in cancer. Chao Lu, New York, NY

2:30 p.m. Epigenetic dysregulation and mutational partnerships in pediatric glioma. Jacek Majewski, Montreal, QC, Canada

Room W196, McCormick Place West (Level 1)
New Insights into the Biology and Treatment of Virus-Associated Malignancies

Chair: Catherine Bollard, Washington, DC

1:00 p.m. Targeting HPV antigens by vaccination. Cornelia L. Trimble, Baltimore, MD

1:30 p.m. Recent advances in the biology and management of EBV-associated lymphomas. Kieron Dunleavy, Washington, DC

2:00 p.m. Immunotherapy for KSHV-associated and HIV-associated malignancies. Thomas S. Uldrick, Seattle, WA

2:30 p.m. Virus-directed T-cell therapies for virus-associated cancers. Catherine Bollard, Washington, DC
Room W190, McCormick Place West (Level 1)

**NGS Methods for Tumor Detection and Response Prediction**

Chair: Aadel A. Chaudhuri, Stanford, CA

1:00 p.m.  **Solid tumor MRD detection using C+DNA.** Aadel A. Chaudhuri, Stanford, CA

1:30 p.m.  **Early detection and characterization of cancer using noninvasive liquid biopsies.** Victor E. Velculescu, Baltimore, MD

2:00 p.m.  **Tracking minimal residual disease and cancer evolution in early-stage NSCLC.** Charles Swanton, London, United Kingdom

2:30 p.m.  **The cancer genome’s influence on immunotherapy.** Nadeem Riaz, New York, NY

Room N228, McCormick Place North (Level 2)

**Opportunities in Drugging Protein-Protein Interactions Using Inhibitors and Degraders**

Chair: Rima S. Al-Awar, Toronto, ON, Canada

1:00 p.m.  **Chemically induced degradation of the oncogenic transcription factor BCL6.** Manfred Koegl, Vienna, Austria

1:30 p.m.  **From PPI inhibition to targeted protein degradation: A journey with VHL ligands.** Alessio Ciulli, Dundee, United Kingdom

2:00 p.m.  **Discovery and optimization of novel, potent and orally bioavailable BCL6-BTB inhibitors.** Methvin Isaac, Toronto, ON, Canada

2:30 p.m.  **The challenge of drugging protein-protein interactions: Lessons learned from the discovery of PRC2 complex inhibitor A-395.** William N. Pappano, North Chicago, IL

N Hall C, McCormick Place North (Level 1)

**Predictors and Mechanisms of Success or Failure of Immunotherapy**

Chair: Charles G. Drake, New York, NY

1:00 p.m.  **PD-L1 expression and its uncertain future as a predictor of immunotherapy response.** Charles G. Drake, New York, NY

1:40 p.m.  **The quantification of T-cell responses to mutation associated neoantigens (MANA).** Drew M. Pardoll, Baltimore, MD

2:20 p.m.  **Molecular approaches to predicting the efficacy of immune-based therapy.** Jason J. Luke, Chicago, IL

**Program as of March 20, 2018
Room S504, McCormick Place South (Level 5)

**Translational Control of Cancer**

**Chair:** Nahum Sonenberg, Montreal, QC, Canada

1:00 p.m.  **Translational control of cancer via the mRNA 5’-cap binding complex, eIF4F.** Nahum Sonenberg, Montreal, QC, Canada

1:30 p.m.  **Targeted profiling of RNA translation for studying mTOR-dependent and -independent translational regulation.** Jean J. Zhao, Boston, MA

2:00 p.m.  **Translating the cancer genome one codon at a time and its therapeutic implications.** Davide Ruggero, San Francisco, CA

2:30 p.m.  **Translating translational control to the clinic in breast and ovarian cancer.** Robert J. Schneider, New York, NY

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**METHODS WORKSHOP • 1:00 p.m.–3:00 p.m.**

Room S100 (Grand Ballroom), McCormick Place South (Level 1)

**Cancer Modeling in the CRISPR Age**

**Chair:** Andrea Ventura, New York, NY

1:00 p.m.  **CRISPR-based liver cancer modeling and gene therapy.** Wen Xue, Worcester, MA

1:30 p.m.  **CRISPR-based modeling of colorectal cancer in vivo and ex vivo.** Lukas E. Dow, New York, NY

2:00 p.m.  **Engineering complex chromosomal rearrangements by in vivo and ex vivo somatic genome editing.** Andrea Ventura, New York, NY

2:30 p.m.  **CRISPR/Cas9-based precision medicine approaches in lung cancer research.** Thales Papagiannakopoulos, New York, NY
SATURDAY, APRIL 14**

Room S102, McCormick Place South (Level 1)
**Clinical Trial Design Part 3: Trials Utilizing Combination Therapies**

**Chair:** Gina Petroni, Charlottesville, VA

**1:00 p.m.**  **Introduction.** Gina Petroni, Charlottesville, VA

**1:30 p.m.**  **A Bayesian adaptive phase I/II design of cisplatin and cabazitaxel in prostate cancer with visceral metastasis.** Mourad Tighiouart, Los Angeles, CA

**2:00 p.m.**  **From the statistical bench to bedside: implementing proper designs in the ESMART pediatric combination phase I/II trials.** Xavier Paoletti, Paris, France

**2:30 p.m.**  **Successful implementation of novel early-phase designs for combination therapies.** Gina Petroni, Charlottesville, VA

Room S406 (Vista Ballroom), McCormick Place South (Level 4)
**Methods to Evaluate the Immunologic Landscape of Tumors**

**Chair:** Jerome Galon, Paris, France

**1:00 p.m.**  **Immune contexture of tumor: Novel methods and novel paradigm.** Jerome Galon, Paris, France

**1:40 p.m.**  **Measuring effector and suppressor cellular responses and circulating proteins.** Lisa H. Butterfield, Pittsburgh, PA

**2:50 p.m.**  Speaker to be announced

Room S501, McCormick Place South (Level 5)
**NCI’s UH2/UH3 Novel Assay Development Program**

**Chair:** Sameek Roychowdhury, Columbus, OH

**1:00 p.m.**  **Title to be announced.** Sameek Roychowdhury, Columbus, OH

**1:40 p.m.**  **Title to be announced.** David Polsky, New York, NY

**2:20 p.m.**  **Title to be announced.** Joseph A. Califano, La Jolla, CA

**Program as of March 20, 2018**
PROFESSIONAL ADVANCEMENT SESSION • 1:00 p.m.–3:00 p.m.

Regency CD, Hyatt Regency McCormick Place

Women in Cancer Research Professional Advancement Session: Challenges and Solutions for Wonder Women in Science (not eligible for CME credit)

Cochairs: Lori S. Friedman, South San Francisco, CA; Kornelia Polyak, Boston, MA

Panelists: Edith P. Mitchell, Philadelphia, PA
          Ashani T. Weereratna, Philadelphia, PA

Speaker to be announced

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

Room S401bcd, McCormick Place South (Level 4)

Cancer Genomic Reference Samples—Sequencing Consortium Results and Beyond

Chair: Zivana Tezak, Silver Springs, MD

Wenming Xiao, Jefferson, AR
Li Tai Fang, Belmont, CA
Howard Jacob, North Chicago, IL
Maryellen de Mars, Manassas, VA

Panelists: Michael F. Berger, New York, NY
          Rasika Kalamegham, Washington, DC
          Jeffrey M. Trent, Phoenix, AZ
SATURDAY, APRIL 14**

EDUCATIONAL SESSION • 3:15 p.m.–5:15 p.m.

Room N427, McCormick Place North (Level 4)

Advances in Cancer Vaccines

Chair: Pedro J. Romero, Epalinges, Switzerland

3:15 p.m.  Personalized neoepitope-based cancer vaccines. Özlem Türeci, Mainz, Germany

3:45 p.m.  Dendritic cell targeted vaccines. Nina Bhardwaj, New York, NY

4:35 p.m.  Inducing tumor-specific CD8T cell memory responses. Pedro J. Romero, Epalinges, Switzerland

N Hall C, McCormick Place North (Level 1)

Co-stimulation and Co-inhibition in T Cell-Mediated Immunity

Chair: Ana C. Anderson, Boston, MA

3:15 p.m.  CTLA-4: Discovery, role in self-tolerance, and autoimmunity. James P. Allison, Houston, TX

3:45 p.m.  PD-L1/PD-1: Mechanism of action and rational combinations. Ira Mellman, South San Francisco, CA

4:15 p.m.  The next generation of immune checkpoints. Ana C. Anderson, Boston, MA

4:45 p.m.  T-cell co-stimulation via TNFR family members in immunotherapy. Ignacio Melero, Pamplona, Spain

Room S501, McCormick Place South (Level 5)

Common Statistical Errors and Mistakes in Cancer Research: How to Avoid Them

Chair: Yu Shyr, Nashville, TN

3:15 p.m.  Common statistical errors and mistakes in cancer research: How to avoid them—Omics research. Yu Shyr, Nashville, TN

3:45 p.m.  Interpreting regression models: What do all those betas mean? Thomas Braun, Ann Arbor, MI

4:15 p.m.  Common statistical errors and mistakes in cancer research: How to avoid them—Manuscript and grant writing. Heidi L. Weiss, Lexington, KY

4:45 p.m.  So what? Statistical significance vs. clinical significance. Alex A. Adjei, Rochester, MN

**Program as of March 20, 2018
Room S406 (Vista Ballroom), McCormick Place South (Level 4)

**Computational Methods and Resources for Immunogenomics and Immune Therapy**

**Chair:** Malachi Griffith, St. Louis, MO

3:15 p.m.  **Online resources and bioinformatics tools for immunogenomics.** Malachi Griffith, St. Louis, MO

3:45 p.m.  **Title to be announced.** Maxim Artyomov, St. Louis, MO

4:15 p.m.  **Designing and validating personalized cancer vaccines.** Jeffrey E. Hammerbacher, New York, NY

4:45 p.m.  **Approaches for T-cell receptor repertoire sequencing.** Trevor J. Pugh, Toronto, ON, Canada

Room S103, McCormick Place South (Level 1)

**From Chemistry to the Clinic: Part 3—Approaches to Drug Design for Neuro-oncology**

**Chair:** Timothy Heffron, South San Francisco, CA

1:00 p.m.  **Challenges and principles of drug design in neuro-oncology.** Zoran Rankovic, Memphis, TN

1:30 p.m.  **Strategies in the discovery of GDC-0084: A BBB penetrating PI3K/mTOR inhibitor.** Timothy Heffron, South San Francisco, CA

2:00 p.m.  **Discovery of the clinical candidate AZD1390: A high-quality, potent and selective inhibitor of ATM kinase with the ability to cross the blood-brain barrier.** Kurt G. Pike, Cambridge, United Kingdom

2:30 p.m.  **Structural data in the discovery of lorlatinib and insights into mechanisms of ALK acquired resistance.** Ted W. Johnson, San Diego, CA

Room S404, McCormick Place South (Level 4)

**Frontiers in Personalized Immunotherapy of Hematologic Malignancies**

**Chair:** Larry W. Kwak, Duarte, CA

3:15 p.m.  **Novel targeting of familiar immune targets in B-cell malignancies.** Larry W. Kwak, Duarte, CA

3:45 p.m.  **Immune targeting of the microenvironment in classical Hodgkin lymphoma.** Margaret A. Shipp, Boston, MA

4:15 p.m.  **CAR T cell strategies for lymphomas.** Sattva S. Neelapu, Houston, TX

4:45 p.m.  **Personalized neoantigen vaccine strategies in hematologic malignancies.** Catherine J. Wu, Boston, MA
Room S105, McCormick Place South (Level 1)

**New Developments in the Treatment of Metastatic Colorectal Cancer**

**Chair:** Edward Chu, Pittsburgh, PA

3:15 p.m. **Overview on the treatment of metastatic colorectal cancer.** Edward Chu, Pittsburgh, PA

3:45 p.m. **Novel targeted therapy approaches for metastatic colorectal cancer.** Scott Kopetz, Houston, TX

4:15 p.m. **Update and new strategies for the immunotherapy of MSI-high metastatic colorectal cancer.** Dung T. Le, Baltimore, MD

4:45 p.m. **Title to be announced.** James J. Lee, Pittsburgh, PA

Room W196, McCormick Place West (Level 1)

**No More “Triple-Negative Breast Cancer”: Molecular Classification and Personalized Therapy**

**Chair:** Charles M. Perou, Chapel Hill, NC

3:15 p.m. **Introduction.** Charles M. Perou, Chapel Hill, NC

3:20 p.m. **Precision medicine for TNBC patients using a systems biology approach.** Charles M. Perou, Chapel Hill, NC

3:45 p.m. **Triple-negative breast cancer: Targeting a genetically diverse disease.** Brian D. Lehmann, Hendersonville, TN

4:10 p.m. **Targeting the androgen receptor in TNBC.** Ayca Gucalp, New York, NY

4:45 p.m. **Targeted therapy for TNBC: Signs of progress after a decade of hope.** Stacy L. Moulder, Houston, TX

Room N227, McCormick Place North (Level 2)

**Pancreatic Cancer Prevention**

**Chair:** Anirban Maitra, Houston, TX

3:15 p.m. **Early detection and prevention of pancreas cancer.** Anirban Maitra, Houston, TX

3:45 p.m. **Pancreatic cancer immunoprevention: Novel strategies.** Florencia McAllister, Houston, TX

4:15 p.m. **Generating immunity to pancreatic cancer.** Stephanie K. Dougan, Boston, MA

4:45 p.m. **Chemoprevention of pancreas cancer.** Chinthalapally V. Rao, Oklahoma City, OK

**Program as of March 20, 2018**
Room S102, McCormick Place South (Level 1)

**The Paradox Toolbox: Developing a Better Understanding of Associations between Obesity and Cancer—and What to Do about It?**

**Chair:** Wendy Demark-Wahnefried, Birmingham, AL

3:15 p.m. **Introduction.** Wendy Demark-Wahnefried, Birmingham, AL

3:20 p.m. **Overview of BMI, cancer survival, and overall survival.** Pamela J. Goodwin, Toronto, ON, Canada

3:50 p.m. **A causal link between excess weight and poor prognosis after cancer can be questioned.** Andrew Renehan, Manchester, United Kingdom

4:20 p.m. **Do weight loss interventions have a role in cancer survivorship: A need to proceed, but doing so with caution.** Wendy Demark-Wahnefried, Birmingham, AL

4:50 p.m. **Panel discussion.** Bette J. Caan, Oakland, CA

Room N228, McCormick Place North (Level 2)

**Revisiting Vitamin C as an Epigenetic Therapeutic**

**Chair:** Benjamin G. Neel, New York, NY

3:15 p.m. **Restoration of TET function as a therapeutic strategy in leukemia.** Luisa Cimmino, New York, NY

3:45 p.m. **Epigenetic regulation of stem cell function and leukemia suppression by vitamin C.** Sean J. Morrison, Dallas, TX

4:15 p.m. **TET proteins and vitamin C control the stability of Foxp3 expression in T regulatory cells.** Anjana Rao, La Jolla, CA

4:45 p.m. **Vitamin C as an epigenetic drug in cancer.** Kirsten Gronbaek, København, Denmark

Room S106, McCormick Place South (Level 1)

**Single-Cell Analysis of the Cancer Epigenome and Transcriptome**

**Chair:** Mario L. Suvà, Charlestown, MA

3:15 p.m. **Dissecting adult and pediatric gliomas by single-cell genomics.** Mario L. Suvà, Charlestown, MA

3:45 p.m. **Computational analysis of single-cell cancer transcriptomes: Progress and challenges.** Claudia Kleinman, Montreal, QC, Canada

4:15 p.m. **Functional single-cell genomics for targeting genetically complex acute myeloid leukemia.** Fumihiko Ishikawa, Kanagawa, Japan

4:45 p.m. **Dissecting normal and clonal hematopoietic differentiation topologies with single-cell genomics.** Daniel Landau, New York, NY
SATURDAY, APRIL 14**

What Can We Learn about Cancer by Combining Germline and Somatic Data?

Chair: Jan Korbel, Heidelberg, Germany

3:15 p.m. Germline determinants of the somatic mutation landscape in 2,642 cancer genomes. Jan Korbel, Heidelberg, Germany

3:45 p.m. Interaction of inherited polymorphisms and somatic events in cancer. Hannah K. Carter, La Jolla, CA

4:15 p.m. Germline and somatic alterations and impact on clinical decision making. Michael F. Berger, New York, NY

4:45 p.m. Integrating germline and somatic data to provide insights into epidemiology studies. Ulrike Peters, Seattle, WA

METHODS WORKSHOP • 3:15 p.m.–5:15 p.m.

Assessing the T-cell Repertoire in Clinical Trials

Chair: Jennifer S. Sims, New York, NY

3:15 p.m. The next generation of TCR repertoire profiling. Jennifer S. Sims, New York, NY

3:45 p.m. TCR response from immune repertoire sequencing data. Aleksandra Walczak, Paris, France

4:15 p.m. Single-cell TCR profiling. Gurinder Atwal, Cold Spring Harbor, NY

4:45 p.m. Molecular tools to study T-cell repertoire, specificity, and function. Arnold Han, New York, NY

Characterizing the Pre-cancer Genome: Identification of Early Drivers

Chair: Eduardo Vilar-Sanchez, Houston, TX

3:15 p.m. The making of the pre-cancer atlas: Opportunities and challenges. Sudhir Srivastava, Rockville, MD

3:45 p.m. Single-cell genomics for the analysis of premalignancy. Nicholas E. Navin, Bellaire, TX

**Program as of March 20, 2018
4:15 p.m.  Genomic analysis of precancers in the GI tract. Eduardo Vilar-Sanchez, Houston, TX

4:45 p.m.  Pre-cancer genomic analysis in hematologic disorders. Benjamin L. Ebert, Boston, MA

Room S405, McCormick Place South (Level 4)

Tracking Tumor Metabolism in Action
Chair: Joshua D. Rabinowitz, Princeton, NJ

3:15 p.m.  Tracing tissue and tumor metabolism with mass spectrometry. Joshua D. Rabinowitz, Princeton, NJ

3:45 p.m.  Probing tumor metabolic heterogeneity with imaging mass spectrometry. Shawn Davidson, Cambridge, MA

4:15 p.m.  Bridging MR imaging and mass spectrometry analysis of human tumor metabolism. Elizabeth Maher, Dallas, TX

4:45 p.m.  Utilizing hyperpolarized MRI to study metabolism noninvasively. Kayvan R. Keshari, New York, NY

PROFESSIONAL ADVANCEMENT SESSION • 3:30 p.m.–5:30 p.m.

Jackson Park ABC, Hyatt Regency

Personalized Career Conversations
Sponsored by the Associate Member Council, Minorities in Cancer Research, and Women in Cancer Research
(not eligible for CME credit)

MEET AND GREET • 5:00 p.m.–6:30 p.m.

Dusable, Hyatt Regency

AACR Undergraduate Scholars
(not eligible for CME credit)

Chair: Kathleen W. Scotto, New Brunswick, NJ
SATURDAY, APRIL 14**

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

Great Lakes E-G, Marriott Marquis Chicago Hotel
** CAREERS IN CLINICAL CANCER RESEARCH ROUNDTABLE**
(Not eligible for CME credit)

Chair: Carlos L. Arteaga, Dallas, TX

MEET AND GREET • 6:30 p.m.–8:30 p.m.

Regency AB, Hyatt Regency
** NEW MEMBER NETWORKING MIXER**
(Not eligible for CME credit)

Elizabeth M. Jaffee, 2018-2019 AACR President, Baltimore, MD

**Program as of March 20, 2018**
SUNDAY, APRIL 15**

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

Room S103, McCormick Place South (Level 1)
**Accelerating the Pace of Change by Incorporating Early End Point into Care and Trials**
Laura J. Esserman, San Francisco, CA

Room N228, McCormick Place North (Level 2)
**Chimeric Antigen Receptor (CAR)-Engineered T and NK Cells and HSV1-Based Oncolytic Virotherapy for Cancer Treatment**
Jianhua Yu, Columbus, OH

Room S402, McCormick Place South (Level 4)
**Communicating with the e-Patient in the Era of Digital Health**
Michael A. Thompson, Delafield, WI

Room S100 (Grand Ballroom), McCormick Place South (Level 1)
**CRISPR-Cas9: A Bacterial Immune System Becomes a Star in Gene Editing**
Emmanuelle Charpentier, Berlin, Germany

Room N227, McCormick Place North (Level 2)
**CTC Characterization and Applications**
Evi S. Lianidou, Athens, Greece

Room S105, McCormick Place South (Level 1)
**Developing Software for Immunotherapy: Lessons Learned from Silicon Valley**
Jeffrey E. Hammerbacher, New York, NY

Room S404, McCormick Place South (Level 4)
**Impact of Molecular Tumor Characterization on Clinical Decision Making in Malignant Glioma**
Roger Stupp, Chicago, IL

Room S106, McCormick Place South (Level 1)
**Linking Biologic Heterogeneity and Genetic Complexity of Human Malignancies Using the “Humanized Mouse”**
Fumihiko Ishikawa, Kanagawa, Japan

**Program as of March 20, 2018**
Room S406 (Vista Ballroom), McCormick Place South (Level 4)
Myeloid-Derived Suppressor Cells in Regulation of Tumor Immunity and Response to Therapy
Dmitry I. Gabrilovich, Philadelphia, PA

Room W190, McCormick Place West (Level 1)
Precision Medicine and K-RAS-Driven Cancers: What Are We Doing Wrong?
Mariano Barbacid, Madrid, Spain

Room W196, McCormick Place West (Level 1)
The Tumor Microenvironment Promotes and Sustains Pancreatic Cancer
David A. Tuveson, Cold Spring Harbor, NY

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

Room W192, McCormick Place West (Level 1)
NIH Grants Session: Changes in Review, Funding, and Funding Opportunities at the NCI
(not eligible for CME credit)
Chair: Daniel L. Gallahan, Bethesda, MD
7:05 a.m. Amy L. Rubinstein, Bethesda, MD
7:25 a.m. Daniel L. Gallahan, Bethesda, MD
7:45 a.m. Discussion

**Program as of March 20, 2018
OPENING CEREMONY • 8:00 a.m.–9:45 a.m.

N Hall B (Plenary Hall), McCormick Place North (Level 3)
(not eligible for CME credit)

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.

Highlights of the Opening Ceremony include:
• Remarks from AACR CEO Margaret Foti and AACR President Michael A. Caligiuri
• Twelfth Annual AACR Team Science Award
• Recognition of the newly inducted Fellows of the AACR Academy
• The Third Annual AACR June L. Biedler Prize for Cancer Journalism
• The 2018 Distinguished Public Service Awards
• The Fifteenth Annual AACR Award for Lifetime Achievement in Cancer Research
• The Twelfth Annual AACR Margaret Foti Award for Leadership and Extraordinary Achievements in Cancer Research

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

See you there!
SUNDAY, APRIL 15**

OPENING PLENARY SESSION • 9:45 a.m.–12:15 p.m.

N Hall B (Plenary Hall), McCormick Place North (Level 3)
Opening Plenary: Advancing Cancer Medicine: From Discovery to Patient Care
Chair: Elaine R. Mardis, Columbus, OH

9:45 a.m. Introduction. Elaine R. Mardis, Columbus, OH

9:50 a.m. Liquid biopsy: Novel technologies and clinical applications. Klaus Pantel, Hamburg, Germany

10:15 a.m. Immune checkpoint therapy: From CTLA-4 to PD-1/PD-L1 and beyond. Padmanee Sharma, Houston, TX

10:40 a.m. CT001 Pembrolizumab versus placebo after complete resection of high-risk stage III melanoma: Efficacy and safety results from the EORTC 1325-MG/Keynote 054 double-blinded phase III trial. Alexander M. M. Eggermont, Villejuif, France

11:05 a.m. Discussant. Antoni Ribas, Los Angeles, CA

11:15 a.m. Mobilizing immunity against ovarian cancer. George Coukos, Lausanne, Switzerland

11:40 a.m. Cancer chromosome evolution in metastases, immune evasion, adaptation and clinical outcome: Insights from the TRACERx studies. Charles Swanton, London, United Kingdom

12:05 p.m. Opportunities/challenges for the future. Elaine R. Mardis, Columbus, OH

AWARDS AND LECTURES • 12:15 p.m.–1:00 p.m.

Room S100 (Grand Ballroom), McCormick Place South (Level 1)
Twenty-First Annual Pezcoller Foundation-AACR International Award for Extraordinary Achievement in Cancer Research

12:15 p.m. Protein phosphorylation: Pancreatic cancer and new frontiers in histidine phosphorylation. Tony Hunter, La Jolla, CA

Dr. Hunter is recognized for his work in discovering tyrosine kinases, enzymes controlling cell signaling to regulate cell proliferation, metabolism, and other processes. His original discovery of tyrosine phosphorylation established how many oncoproteins transform cells and how growth factor receptors transduce signals.

**Program as of March 20, 2018
NCI/NIH-SPONSORED SESSION • 12:15 p.m.–1:45 p.m.

Room W192, McCormick Place West (Level 1)
NCI-Sponsored Training Awards and Opportunities
(not eligible for CME credit)

Jonathan S. Wiest, Bethesda, MD
Ming Lei, Rockville, MD
Mark Damico, Bethesda, MD
Michael K. Schmidt, Rockville, MD

CLINICAL TRIALS PLENARY SESSION 1 • 12:45 p.m.–2:45 p.m.

N Hall C, McCormick Place North (Level 1)
Multimodality Immuno-oncology Approaches

Chair: Louis M. Weiner, Washington, DC

12:45 p.m. CT003  Preoperative pembrolizumab (pembro) before radical cystectomy (RC) for muscle-invasive urothelial bladder carcinoma (MIUC): Interim clinical and biomarker findings from the phase II PURE-01 study. Andrea Necchi, Milan, Italy

1:05 p.m. Discussant to be announced

1:15 p.m. CT004  Front-line therapy of DIPG using the IDO pathway inhibitor indoximod in combination with radiation and chemotherapy. Theodore S. Johnson, Augusta, GA

1:35 p.m. Discussant to be announced

1:45 p.m. CT005  FLT3 ligand (CDX-301) and stereotactic radiotherapy for advanced non-small cell lung cancer. Nitin Ohri, Bronx, NY

2:05 p.m. Discussant. Silvia C. Formenti, New York, NY

2:15 p.m. CT006  Intraperitoneal radioimmunotherapy for desmoplastic small round cell tumor: Results of a phase I study (clinicaltrials.gov identifier NCT01099644). Shakeel Modak, New York, NY

2:35 p.m. Discussant. Kunle Odunsi, Buffalo, NY
SUNDAY, APRIL 15**

MEET AND GREET • 1:00 p.m.–2:00 p.m.

Booth 1431, Exhibit Hall A, McCormick Place South (Level 3)
Meet the Editor-in-Chief of Clinical Cancer Research: Keith T. Flaherty, MD
(not eligible for CME credit)
Keith T. Flaherty, Boston, MA

MAJOR SYMPOSIA • 1:00 p.m.–2:45 p.m.

Room S105, McCormick Place South (Level 1)
Beyond microRNAs: Emerging Roles of Other Noncoding RNAs in Cancer
Chair: Howard Y. Chang, Stanford, CA
1:00 p.m. Introduction
1:05 p.m. Genome regulation by long noncoding RNAs. Howard Y. Chang, Stanford, CA [SY25-01*]
1:35 p.m. Functional long noncoding RNAs in cancer pathways. Maite Huarte, Pamplona, Spain
2:05 p.m. Surprising roles for tRNAs in regulation of cancer progression. Sohail Tavazoie, New York, NY

Room N228, McCormick Place North (Level 2)
Defining and Addressing the Heterogeneity of Hepatocellular Carcinoma (HCC)
Chair: Richard S. Finn, Los Angeles, CA
1:00 p.m. Introduction
1:05 p.m. Bridging the gap between science and treatment in HCC. Richard S. Finn, Los Angeles, CA
1:35 p.m. Heterogeneity in molecular subtype of hepatocellular carcinoma. Yujin Hoshida, New York, NY [SY36-02*]
2:05 p.m. Immunotherapy takes off in HCC. Ignacio Melero, Pamplona, 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).
**Program as of March 20, 2018
Room S100 (Grand Ballroom), McCormick Place South (Level 1)

**Metastatic Microenvironment Dictates Progression and Therapy Responses**

**Chair:** Mikala Egeblad, Cold Spring Harbor, NY

1:00 p.m.  **Introduction**

1:05 p.m.  **Inflammation-induced neutrophil extracellular traps (NETs) awaken dormant cancer in the lung microenvironment.** Mikala Egeblad, Cold Spring Harbor, NY [SY38-01*]

1:35 p.m.  **Postpartum tissue remodeling drives breast cancer metastasis.** Pepper Jo Schedin, Portland, OR [SY38-02*]

2:05 p.m.  **Microenvironment dictates differential response of primary tumor versus metastases.** Rakesh K. Jain, Boston, MA [SY38-03*]

N Hall B (Plenary Hall), McCormick Place North (Level 3)

**Personalized Neoantigen Vaccines**

**Chair:** Catherine J. Wu, Boston, MA

1:00 p.m.  **Introduction**

1:05 p.m.  **Determinants of neoantigen immunogenicity.** Lelia Delamarre, San Francisco, CA [SY14-01*]

1:35 p.m.  **Personalized therapies: Neoantigen discovery and vaccination.** Nina Bhardwaj, New York, NY [SY14-02*]

2:05 p.m.  **Designing and improving personal neoantigen-targeting vaccines.** Catherine J. Wu, Boston, MA

Room S406 (Vista Ballroom), McCormick Place South (Level 4)

**Translational Applications of Systems Biology**

**Chair:** Andrea Califano, New York, NY

1:00 p.m.  **Introduction**

1:05 p.m.  **Systematic approaches to identify cancer dependencies.** William C. Hahn, Boston, MA [SY35-01*]

1:30 p.m.  **Cancer systems biology: From bench to bedside.** Andrea Califano, New York, NY

1:55 p.m.  **Systems approach to targeting adaptive responses to PARP inhibitors in cancer.** Gordon B. Mills, Houston, TX

2:20 p.m.  **Effects of altering receptor structure in CAR T cells: Predictions from an experimentally validated systems biology model.** Stacey D. Finley, Los Angeles, CA [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).
SUNDAY, APRIL 15**

RECENT ADVANCES IN CANCER
HEALTH DISPARITIES RESEARCH • 1:00 p.m.–2:45 p.m.

Room S102, McCormick Place South (Level 1)
Can Cervical Cancer Screening and Prevention Be Implemented in Developing Countries and the Evolution of Treatment in Under-Resourced Countries

Chair: Linus T. Chuang, Danbury, CT

1:00 p.m. Cervical cancer screening in low- and middle-income countries: New approaches leading to success. Silvia De Sanjose, Hospitalet, Spain

1:30 p.m. Preventing cervical cancer in the first mile of the care continuum. Nimmi Ramanujam, Durham, NC

2:00 p.m. Evolution of clinical trials in cervical cancer treatments in resource-constrained settings. Linus T. Chuang, Danbury, CT

Room N427, McCormick Place North (Level 4)
Genetic Ancestry and Breast Cancer Risk

Chair: Lisa A. Newman, Detroit, MI

1:00 p.m. “Ethnicity,” nationality, genetic ancestry, and breast cancer in women of Latin American origins. Laura Fejerman, San Francisco, CA

1:30 p.m. African ancestry and breast cancer risk. Julie R. Palmer, Boston, MA

2:00 p.m. African ancestry and markers of inflammation related to breast cancer risk. Melissa B. Davis, Detroit, MI

Room S404, McCormick Place South (Level 4)
Multiple Myeloma

Chair: Robert Z. Orlowski, Houston, TX

1:00 p.m. Immunotherapy for AL amyloidosis. Suzanne Lentzsch, New York, NY

1:30 p.m. CAR T-cells in myeloma. James N. Kochenderfer, Houston, TX

2:00 p.m. Novel small-molecule therapeutics. Robert Z. Orlowski, Houston, TX

**Program as of March 20, 2018
RECENT ADVANCES IN ORGAN SITE RESEARCH • 1:00 p.m.–2:45 p.m.

Room W190, McCormick Place West (Level 1)
**Dharma Master Jiantai Recent Advances in Lung Cancer Research Session: Latest Advances in Small Cell Lung Cancer**

**Chair:** Julien Sage, Stanford, CA

1:00 p.m. **Mechanisms of acquired therapeutic resistance in SCLC.** Charles M. Rudin, New York, NY

1:30 p.m. **Targeting DNA damage response and immune checkpoints in SCLC.** Lauren Averett Byers, Houston, TX

2:00 p.m. **Tumor heterogeneity and therapy response in SCLC.** Julien Sage, Stanford, CA

Room N227, McCormick Place North (Level 2)
**Ovarian Cancer Metastasis**

**Chair:** Dineo Khabele, Kansas City, KS

1:00 p.m. **Ovarian cancer metastasis and the role of tumor-associated macrophages.** Dineo Khabele, Kansas City, KS

1:30 p.m. **New tools to study ovarian cancer micrometastasis.** Ahmed A. Ahmed, Oxford, United Kingdom

2:00 p.m. **Targeting the tumor microenvironment in ovarian cancer metastasis.** Anil K. Sood, Houston, TX

Room W196, McCormick Place West (Level 1)
**Targeting Pancreatic Cancer**

**Chair:** Ben Z. Stanger, Philadelphia, PA

1:00 p.m. **Targeting the drug- and immune-privileged sanctuary of pancreas cancer.** Sunil R. Hingorani, Seattle, WA

1:30 p.m. **Understanding immune heterogeneity in pancreas cancer.** Ben Z. Stanger, Philadelphia, PA

2:00 p.m. **Exploring tumor suppressor gene mutations in pancreas cancer.** Scott W. Lowe, New York, NY
SUNDAY, APRIL 15**

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

Room S106, McCormick Place South (Level 1)
Pediatric Cancer Survivorship

Chair: Lisa R. Diller, Boston, MA

1:00 p.m. Prevention in the context of pediatric cancer: Improving outcomes in survivors. Lisa R. Diller, Boston, MA

1:05 p.m. Prevention of late effects: Can we learn from laboratory models? Jason N. Berman, Halifax, NS, Canada

1:35 p.m. Prevention of late toxicity using clinical trials: Chemoprevention of late congestive heart failure. Saro Armenian, Duarte, CA

2:05 p.m. Risk of second malignancy cancer after childhood and adolescent cancer: Does epidemiology inform risk reduction strategy? Flora E. van Leeuwen, Amsterdam, Netherlands

REGULATORY SCIENCE AND POLICY SESSION • 1:00 p.m.–2:45 p.m.

Room S401bcd, McCormick Place South (Level 4)
Has Pandora’s Box Been Opened? The Site–Agnostic Approval of Pembrolizumab

Chair: Steven J. Lemery, Silver Spring, MD

Speakers: Janaki Veeraraghavan, Silver Spring, MD
Russell R. Broaddus, Houston, TX
Heather L. Hampel, Columbus, OH
Michael J. Overman, Houston, TX
Zsofia K. Stadler, New York, NY

**Program as of March 20, 2018
DRUG DEVELOPMENT TRACK—
SPECIAL SESSION • 1:00 p.m.–3:00 p.m.

Room S103, McCormick Place South (Level 1)
New Drugs on the Horizon 1

Cochairs: Julian Blagg, Sutton, Surrey, United Kingdom; Andrew J. Phillips, Cambridge, MA

1:00 p.m.  AZD4573: A potent and selective CDK9 inhibitor for the treatment of hematologic malignancies. Lisa Drew, Waltham, MA
(not eligible for CME credit)

1:24 p.m.  The discovery of BT1718: A novel bicyclic peptide drug conjugate for the treatment of solid tumors expressing MT1-MMP. Nicholas J. Keen, Lexington, MA
(not eligible for CME credit)

1:48 p.m.  FPA150: A recombinant, afucosylated, fully human IgG1 monoclonal antibody for the treatment of malignancies that express high levels of B7-H4 anti-B7H4 talk. Charles D. Kaplan, South San Francisco, CA

2:12 p.m.  Pharmacologic profile and antitumor properties of LXH254, a highly selective RAF kinase inhibitor. Darrin D. Stuart, Cambridge, MA [DDT01-04*]

2:36 p.m.  ABBV-744: A first-in-class highly BDII-selective BET bromodomain inhibitor. Warren Kati, North Chicago, IL [DDT01-05*]
(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).
SUNDAY, APRIL 15**

POSTER SESSION • 1:00 p.m.-5:00 p.m.

Exhibit Hall A, McCormick Place South (Level 3)
(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/AACR2018), and in the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

Tumor Biology

Section 1 Angiogenesis Inhibitors and Stimulators
Section 2 Breast Cancer Metastasis
Section 3 Dormancy and Aging: The Influential Microenvironment
Section 4 Mechanisms Underlying Metastasis 1
Section 5 Role of the Innate Immune System in Tumorigenesis
Section 6 Targeting Cancer Stemness
Section 7 The Mechanical Microenvironment in Tumorigenesis
Section 8 Tumor Heterogeneity 1
Section 45 Late-Breaking Research: Tumor Biology 1

Epidemiology

Section 9 Genetic Contributions to Cancer Epidemiology 1: GWAS and Pathway and Candidate Gene Studies

Prevention Research

Section 10 Chemoprevention of Cancer

Bioinformatics and Systems Biology

Section 12 Integrative Cancer Biology 1
Section 44 Late-Breaking Research: Bioinformatics and Systems Biology

Molecular and Cellular Biology / Genetics

Section 14 BCL-2 Family and Mitochondrial Apoptosis
Section 15 Cancer Predisposition and Synthetic Lethality
Section 16 Chromatin Structure and Function
Section 17 Emerging Concepts

**Program as of March 20, 2018
Section 18  Functional Genomics
Section 19  High-Throughput Sequencing 1
Section 20  Metabolism and Cellular Functions 1
Section 21  MicroRNA Regulation in Cancer Biology
Section 22  Noncoding RNAs as Oncogenes and Tumor Suppressors
Section 23  Oncogenes and Tumor Suppressor Genes

Clinical Research
Section 25  Biomarker Discovery 1
Section 26  Clinical Risk Factors and Outcomes in Solid Tumors / Survivorship Research
Section 27  Immune Response to Therapies 1
Section 28  Modifiers of the Tumor Microenvironment 1
Section 29  Molecular Diagnostics 1: Cytogenetics, Clinical Molecular Genetics, and Clinical Imaging
Section 30  Radiation Oncology

Cancer Chemistry
Section 31  Chemical and Structural Biology

Immunology
Section 32  Inflammation, Immunity, and Cancer
Section 33  Response and Resistance to Immune Checkpoint Blockade
Section 34  Vaccines 1

Experimental and Molecular Therapeutics
Section 35  Antibody-Drug Conjugates: Agents and Technology
Section 36  Biomarker Identification and Novel Methods
Section 37  Experimental Agents and Combinations for Hematologic Malignancies 1
Section 38  Growth Factors and Protein Kinases as Targets
Section 39  Modulators of Ionizing Radiation and Other Radiotherapeutics
Section 40  New Therapy with New Mechanism of Action
Section 41  Strategies to Reversing Drug Resistance
Section 43  Late-Breaking Research: Experimental and Molecular Therapies 1

Clinical Trials
Section 42  Phase I Clinical Trials 1
SUNDAY, APRIL 15**

SPECIAL SESSION • 1:15 p.m.–2:00 p.m.

AACRcentral Amphitheater, Hall A, McCormick Place South (Level 3)
Molecular Epidemiology Working Group (MEG) Networking Session with Early-Career Researchers (not eligible for CME credit)

Opening remarks: MEG Chair. Melissa L. Bondy, Houston, TX

AACR funding/grants information and process. Yixian Zhang, Philadelphia, PA

American Cancer Society funding/grants information and process. William C. Phelps, Atlanta, GA

View from the NCI. Deborah Marie Winn, Rockville, MD

NCI/NIH-SPONSORED SESSION • 1:45 p.m.–3:15 p.m.

Room W192, McCormick Place West (Level 1)
Helping Extramural Innovators Advance New Therapies into the Clinic: NCI Developmental Therapeutics Program (not eligible for CME credit)

Jerry M. Collins, Rockville, MD
Rosemarie Aurigemma, Rockville, MD
Paul Grothaus, Rockville, MD
Suzanne Forry, Bethesda, MD
Connie L. Sommers, Bethesda, MD

MEET AND GREET • 2:00 p.m.–4:00 p.m.

AACRcentral-MICR Resource Center, Hall A
Minorities in Cancer Research Council Meet and Greet (not eligible for CME credit)

Council Chair: John M. Carethers, Ann Arbor, MI

**Program as of March 20, 2018
**Council Chair-Elect:** Brian M. Rivers, Atlanta, GA

**Council Chair-Elect Designate:** Laura Fejerman, San Francisco, CA

**Past Chair:** Rick A. Kittles, Duarte, CA

**Council Members:** Kimlin T. Ashing, Duarte, CA
Lisa L. Baumbach-Reardon, Phoenix, AZ
John D. Carpsten, Los Angeles, CA
Gerardo Colón-Otero, Jacksonville, FL
Beverly D. Lyn-Cook, Jefferson, AR
Coleman K. Obasaju, Indianapolis, IN
Mary Jackson Scroggins, Washington, DC
Sanya A. Springfield, Bethesda, MD
Robert A. Winn, Chicago, IL

AACRcentral-WICR Resource Center, Hall A
**Women in Cancer Research Council Meet and Greet**
(not eligible for CME credit)

**Council Chair:** Judith S. Sebolt-Leopold, Ann Arbor, MI

**Council Chair-Elect:** Lucile L. Adams-Campbell, Washington, DC

**Past Chair:** Patricia M. LoRusso, New Haven, CT

**Council Members:** Cathrin Brisken, Lausanne, Switzerland
Sara A. Courtneidge, Portland, OR
Marcia R. Cruz-Correa, San Juan, PR
Caroline Dive, Manchester, United Kingdom
Lori S. Friedman, South San Francisco, CA
Brigette B. Ma, Hong Kong, Hong Kong
Morag Park, Montréal, QC, Canada
Kornelia Polyak, Boston, MA

**SPECIAL SESSION • 2:30 p.m.-3:30 p.m.**

AACRcentral Amphitheater, Hall A, McCormick Place South (Level 3)
**Rally: Celebrating 30 Years of Associate Membership**
(not eligible for CME credit)

Michael A. Caligiuri, AACR President; Margaret Foti, AACR CEO; Kathleen W. Scotto, AACR Science Education and Career Advancement Committee Chair; Kenneth Dutton-Regester, AACR Associate Member Council (AMC) Chair
SUNDAY, APRIL 15**

POSTER DISCUSSION SESSION • 3:00 p.m.–4:00 p.m.

Room S402, McCormick Place South (Level 4)

**Pediatric Cancer**
(not eligible for CME credit)

**Chair:** David Malkin, Toronto, ON, Canada

The abstracts presented in this Poster Discussion Session will also be presented in the following Poster Session:

**Pediatric Cancer**
Monday, April 16, 2018, 8:00 a.m.-12:00 p.m.
Section 28, Hall A, McCormick Place South (Level 3)

3:00 p.m. **Introduction**

3:10 p.m. 1629 Targeting resistance mechanisms to CDK4/6 inhibitors in Ewing sarcoma with an IGF1R inhibitor drug combination strategy. Lillian M. Guenther, Boston, MA

3:15 p.m. 1630 FLT3 chimeric antigen receptor T-cell therapy induces B to T cell lineage switch in infant acute lymphoblastic leukemia. Christopher D. Chien, Bethesda, MD

3:20 p.m. 1631 T-cell dysfunction in pediatric cancer patients at diagnosis and after chemotherapy can limit chimeric antigen receptor potential. David M. Barrett, Philadelphia, PA

3:25 p.m. 1632 Suppression of EWS-FLI1 transcription using a combination therapy of mithramycin and cyclin-dependent kinase 9 inhibition. Guillermo Flores, Grand Rapids, MI

3:30 p.m. 1633 Chemical proteomics identifies druggable proteins in ALK-driven neuroblastomas. Smita Matkar, Philadelphia, PA

3:35 p.m. 1634 BRCA-like phenotype constitutes hallmark of osteosarcoma. Michal Kovac, Basel, Switzerland

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

Room S401bcd, McCormick Place South (Level 4)

**How the AACR Is Working for You in Washington: A Town Hall Meeting on Cancer Research Funding and Science Policy Initiatives**

**Chair:** George D. Demetri, Boston, MA

**Program as of March 20, 2018**
Panelists: Kristin Anderson, Seattle, WA  
Beth Anne Baber, San Diego, CA  
M. K. Holohan Quattrocchi, Bethesda, MD  
Mary Lee Watts, Washington, DC

CLINICAL TRIALS MINISYMPOSIUM 1 • 3:00 p.m.-5:00 p.m.

Room N427, McCormick Place North (Level 4)

New Treatment Approaches for Breast and Ovarian Cancer

Chair: Leisha A. Emens, Baltimore, MD

3:00 p.m. Introduction

3:05 p.m. CT035  A phase I b study of miransertib (ARQ 092) in combination with anastrozole in patients with PIK3CA or AKT1-mutant ER+ endometrial or ovarian cancer. David Hyman, New York, NY

3:20 p.m. CT036  Targeting MUC16 with the THIOMABTM-drug conjugate DMUC4064A in patients with platinum-resistant ovarian cancer: A phase I expansion study. Kathleen Moore, Oklahoma City, OK

3:35 p.m. CT037  Phase I safety, pharmacokinetic and pharmacodynamic study of CYC065, a cyclin-dependent kinase inhibitor, in patients with advanced cancers (NCT02552953). Geoffrey I. Shapiro, Boston, MA

3:50 p.m. CT038  OlympiAD final overall survival: Olaparib versus chemotherapy treatment of physician’s choice (TPC) in patients with HER2-negative metastatic breast cancer (mBC) and a germline BRCA mutation (gBRCAm). Mark E. Robson, New York, NY

4:05 p.m. CT039  Cyclin E1 (CCNE1) expression associates with benefit from palbociclib in metastatic breast cancer (MBC) in the PALOMA3 trial. Nicholas C. Turner, London, United Kingdom

4:20 p.m. CT040  MONARCH 3: Abemaciclib as initial therapy for patients with HR+, HER2- advanced breast cancer—Results from the preplanned final PFS analysis. Matthew P. Goetz, Rochester, MN

4:35 p.m. CT041  Primary results from FAIRLANE (NCT02301988), a double-blind placebo (PBO)-led randomized phase II trial of neoadjuvant ipatasertib (IPAT) + paclitaxel (PAC) for early triple-negative breast cancer (eTNBC). Mafalda Oliveira, Barcelona, Spain

4:50 p.m. Discussion
SUNDAY, APRIL 15**

CLINICAL TRIALS PLENARY SESSION 2 • 3:00 p.m.-5:00 p.m.

N Hall C, McCormick Place North (Level 1)

Advances in Precision Cancer Medicine

Chair: Razelle Kurzrock, San Diego, CA

3:00 p.m. CT043 Highly potent and selective RET inhibitor, BLU-667, achieves proof of concept in a phase I study of advanced, RET-altered solid tumors. Vivek Subbiah, Houston, TX

3:20 p.m. Discussant to be announced

3:30 p.m. CT044 Efficacy of lorlatinib in patients (pts) with advanced ALK-positive non-small cell lung cancer (NSCLC) and ALK kinase domain mutations. Alice T. Shaw, Boston, MA

3:50 p.m. Discussant to be announced

4:00 p.m. CT045 Prospective precision medicine trial of crizotinib (C) in patients (pts) with advanced, inoperable inflammatory myofibroblastic tumor (IMFT) with and without ALK alterations: EORTC phase II study 90101 “CREATE”. Patrick Schöffski, Leuven, Belgium

4:20 p.m. Discussant. Benjamin J. Solomon, Melbourne, VIC, Australia

4:30 p.m. CT046 A phase I basket study of the PI3K inhibitor taselisib (GDC-0032) in PIK3CA-mutated locally advanced or metastatic solid tumors. Komal Jhaveri, New York, NY

4:50 p.m. Discussant. Timothy A. Yap, Houston, TX

DRUG DEVELOPMENT TRACK—SPECIAL SESSION • 3:00 p.m.-5:00 p.m.

Room S103, McCormick Place South (Level 1)

New Drugs on the Horizon 2

Cochairs: Melissa M. Vasbinder, Lexington, MA; Alan G. Olivero, South San Francisco, CA

3:00 p.m. FAP-4-1BBL: A next-generation, targeted costimulatory agonist for cancer immunotherapy. Pablo Umana, Schlieren, Switzerland [DDT02-01*]

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

**Program as of March 20, 2018
3:24 p.m. Targeting DLL3 with BITE® antibody constructs and cell-based therapies for the treatment of SCLC. Michael Giffin, Thousand Oaks, CA (not eligible for CME credit)

3:48 p.m. Induction of detrimental aneuploidy in breast cancer cells and xenografts treated by the MPS1 inhibitor BOS172722. Spyridon Linardopoulos, London, United Kingdom

4:12 p.m. BAY 2402234: A novel, selective dihydroorotate dehydrogenase (DHODH) inhibitor for the treatment of myeloid malignancies. Andreas Janzer, Berlin, Germany [DDT02-04*]

4:36 p.m. eFT226: A selective and highly potent inhibitor of eukaryotic initiation factor 4A (eIF4A), a novel approach for the treatment of cancer. Siegfried H. Reich, La Jolla, CA [DDT02-05*]

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

Room N228, McCormick Place North (Level 2)

**Bioinformatics and Systems Biology**

**Computational Methods and Resources for Cancer Research**

**Cochairs:** Steven G. Rozen, Singapore, Singapore; Roel Verhaak, Farmington, CT

3:00 p.m. **Introduction**

3:05 p.m. 922 Access, visualize, and analyze 5,000 whole-genomes from pediatric cancer patients on St. Jude Cloud. Scott Newman, Memphis, TN

3:20 p.m. 923 The cBioPortal for Cancer Genomics: An intuitive open-source platform for exploration, analysis, and visualization of cancer genomics data. Jianjiong Gao, New York City, NY

3:35 p.m. 924 A mathematical-experimental approach for predicting host responses in a preclinical model for trastuzumab-treated HER2+ breast cancer. Angela M. Jarrett, Austin, TX

3:50 p.m. 925 In silico models accurately predict in vivo response for IL-6 blockade in head and neck cancer. Fereshteh Nazari, Ann Arbor, MI

4:05 p.m. 926 Multi-Center Mutation Calling in Multiple Cancers: The MC3 Project. Kyle Ellrott, Portland, OR

4:20 p.m. 927 TCPA: An open-access resource for cancer functional proteomics data. Jun Li, Houston, TX

4:35 p.m. 928 Regulatory heterogeneity in glioblastoma multiforme informs novel drug target discovery. Yunpeng Liu, Cambridge, 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).*
Room S101, McCormick Place South (Level 1)

**Cancer Chemistry**

**Molecules Addressing Challenges in Drug Discovery**

**Cochairs:** Vinod F. Patel, Acton, MA; Jim Bischoff, Basel, Switzerland

3:00 p.m. **Introduction**

3:05 p.m. **929** Discovery of novel covalent KRAS<sup>G12C</sup> inhibitors that display high potency and selectivity in vitro and in vivo. Liansheng Li, San Diego, CA

(not eligible for CME credit)

3:20 p.m. **930** Targeted delivery of cytotoxic NAMPT inhibitors using antibody-drug conjugates. Christopher S. Neumann, Bothell, WA

3:35 p.m. **931** Discovery of ABBV-744, a first-in-class highly BDII-selective BET bromodomain inhibitor. George S. Sheppard, North Chicago, IL

(not eligible for CME credit)

3:50 p.m. **932** Structure-based design of selective inhibitors for the β-catenin/T-cell factor protein-protein interaction. Haitao (Mark) Ji, Tampa, FL

4:05 p.m. **933** Discovery of a potent dual ALK and EGFR T790M inhibitor. Seock Yong Kang, Daegu, Republic of Korea

4:20 p.m. **934** Discovery of IACS-6274, a potent and selective GLS1 inhibitor advancing to the clinic with excellent pharmacokinetic properties and high oral exposures in preclinical species. Michael Soth, Houston, TX

4:35 p.m. **935** Generation and preclinical characterization of CD123-CPI antibody-drug conjugate (ADC). Yoon-Chi Han, Pearl River, NY

Room S105, McCormick Place South (Level 1)

**Clinical Research**

**Liquid Biopsy 1**

**Cochairs:** Peter Kuhn, Los Angeles, CA; Caroline Dive, Manchester, United Kingdom

3:00 p.m. **Introduction**

3:05 p.m. **936** Analysis of cell-free DNA from 32,991 advanced cancers reveals novel co-occurring activating RET alterations and oncogenic signaling pathway aberrations. Karen L. Reckamp, Duarte, CA

3:20 p.m. **937** Longitudinal circulating-tumor DNA profiling of EGFR-mutated non-small cell lung cancer patients treated with EGFR-tyrosine kinase inhibitors. Sandra Ortiz-Cuaran, Lyon, France

3:35 p.m. **938** Detection of actionable mutations in plasma cfDNA samples from patients with non-small cell lung carcinoma using a novel amplicon-based Firefly NGS assay. Grace Q. Zhao, Menlo Park, CA

**Program as of March 20, 2018**
939  Analytical validation of InVisionFirst™, a liquid biopsy assay for high-sensitivity broad molecular profiling of circulating tumor DNA using plasma samples of cancer patients. Samuel Woodhouse, Cambridge, United Kingdom

940  Analytical and clinical validation of the Idylla™ ctKRAS and ctNRAS-BRAF liquid biopsy tests identifies mCRC patient groups with high and low ctDNA shedding. Bart Jacobs, Mechelen, Belgium (not eligible for CME credit)

941  Method for sensitive detection of tumor fingerprints in plasma. Fangyan Yu, Boston, MA

942  Sensitive detection of microsatellite instability (MSI) in tumors and liquid biopsies using nuclease-based enrichment. Mike G. Makrigiorgos, Boston, MA

Room S504, McCormick Place South (Level 5)
Endocrinology

Novel Roles of Steroid Hormone Receptors

Cochairs: Suzanne A.W. Fuqua, Houston, TX; Jennifer K. Richer, Aurora, CO

3:00 p.m.  Introduction

3:05 p.m.  SAR439859, an orally bioavailable selective estrogen receptor degrader (SERD) that demonstrates robust antitumor efficacy and limited cross-resistance in ER+ breast cancer. Monsif Bouaboula, Cambridge, MA

3:20 p.m.  Glucocorticoid receptor (GR)-mediated activation of cyclic-adenosine monophosphate (cAMP) pathway gene expression following androgen receptor (AR) antagonism of prostate cancer. Tiha M. Long, Chicago, IL

3:35 p.m.  Novel role for SIRT1 in noncanonical activation of AR signaling. Shih-Bo Huang, San Antonio, TX

3:50 p.m.  Suppression of breast cancer metastasis and extension of host animal survival by a new adamantyl antiestrogen, K-07, in a preclinical breast cancer metastasis model driven by constitutively active mutant estrogen receptors. Mary J. Laws, Urbana, IL

4:05 p.m.  Influence of abiraterone therapy on antitumor immunity in genetically engineered mouse prostate cancer models. Eri Banno, Osaka-Sayama, Japan

4:20 p.m.  Preventing estrogen receptor alpha-positive breast cancer outgrowth with the use of hormone replacement therapy. Anna G. Dembo, Chicago, IL
4:35 p.m.  949  Progesterone receptor/IRS-1 cooperation promotes stem cell outgrowth and endocrine resistance in estrogen receptor-positive luminal breast cancer. Amy R. Dwyer, Minneapolis, MN

Room S102, McCormick Place South (Level 1)
Experimental and Molecular Therapeutics
Novel Therapeutic Agents and Combinations
Co-chairs: Vincent L. Giranda, North Wales, PA; Saul H. Rosenberg, North Chicago, IL

3:00 p.m.  Introduction

3:05 p.m.  950  New strategy to sensitize pancreatic and bladder cancer to gemcitabine. Francesca Vena, Jupiter, FL

3:20 p.m.  951  Direct small-molecule BAX activation in acute myeloid leukemia. Evripidis Gavathiotis, Bronx, NY

3:35 p.m.  952  MORAb-202, a folate receptor-alpha (FRA)-targeting antibody-eribulin drug conjugate (ADC), exhibits durable antitumor activity and payload-mediated bystander effects on the tumor microenvironment in triple-negative breast cancer. Keiji Furuuchi, Exton, PA (not eligible for CME credit)

3:50 p.m.  953  LRRC15 is a novel antigen in sarcoma and the therapeutic target of the antibody-drug conjugate (ADC) ABBV-085. Eytan Ben-Ami, Boston, MA

4:05 p.m.  954  Predicting synergistic drug combinations and resistance mechanisms from genomic features and single-agent response profiles. Matthew G. Rees, Cambridge, MA

4:20 p.m.  955  Combined inhibition of MEK and mTOR pathways is effective in NRAS Q61K mutant small cell lung cancer. Atsuko Ogino, Boston, MA

4:35 p.m.  956  Systematic identification of the actionable kinase dependencies of chemotherapy-resistant triple-negative breast cancer. Jean-Philippe F. Coppé, San Francisco, CA

Room S406 (Vista Ballroom), McCormick Place South (Level 4)
Immunology
Engineering Immunotherapies for Anticancer Activity
Co-chairs: Antoni Ribas, Los Angeles, CA; Daniel S. Chen, South San Francisco, CA

3:00 p.m.  Introduction

**Program as of March 20, 2018**
3:05 p.m.  957  Design of CD19-4-1BBL, a novel CD19-targeted 4-1BB ligand for combination therapy with CD20 T-cell bispecific antibodies and CD20 antibodies. Wei Xu, Schlieren, Switzerland (not eligible for CME credit)

3:20 p.m.  958  Anti-GD2 chimeric antigen receptor T cells as a potent immunotherapy regimen in xenograft models of histone 3 K27M mutant diffuse midline glioma. Christopher W. Mount, Stanford, CA

3:35 p.m.  959  Extracellular matrix-binding immunotherapies show enhanced antitumor efficacy and reduced adverse events. Jun Ishihara, Chicago, IL

3:50 p.m.  960  Defined cell composition and precise control over JCAR017 dose enables identification of relationships between chimeric antigen receptor T cell product attributes, pharmacokinetics, and clinical endpoints in NHL. Ryan P. Larson, Seattle, WA (not eligible for CME credit)

4:05 p.m.  961  Intraluesional injection of anti-PD-L1 (pembrolizumab) results in increased T-cell infiltrate in high-risk DCIS. Michael J. Campbell, San Francisco, CA

4:20 p.m.  962  Testing T-cell co-potentiation as an antitumor therapeutic strategy in humanized mouse models. Alfreda D. Nelson, Columbia, MO

4:35 p.m.  963  Screening of neoantigen-specific T cells in head and neck cancer and establishment of T-cell receptor-engineered T cells with cytotoxic reactivity. Lili Ren, Chicago, IL

Room N226, McCormick Place North (Level 2)
Molecular and Cellular Biology / Genetics
Cell Signaling Pathways

Cochairs: Dianne Cox, Bronx, NY; Lucio Miele, New Orleans, LA

3:00 p.m.  Introduction

3:05 p.m.  964  Genome-wide CRISPR screen identifies potential therapeutic combination of EGFR and FGFR inhibitors in oral cancer. Megan Ludwig, Ann Arbor, MI

3:20 p.m.  965  Deleterious effects of MAPK pathway hyperactivation in BRAF-mutant melanoma. Grace P. Leung, Cambridge, MA

3:35 p.m.  966  Oncogenic signaling pathways differentially regulate clathrin-mediated endocytosis in cancer cells. Guan-Yu Xiao, Dallas, TX

3:50 p.m.  967  Targeting notch one notch above. Deniz A. Ucar-Bilyeu, New Orleans, LA
SUNDAY, APRIL 15**

Minisymposia (cont’d)

4:05 p.m.  968 Targeting FAK inhibits YAP-dependent tumor growth in uveal melanoma. Xiaodong Feng, La Jolla, CA

4:20 p.m.  969 Tunneling nanotubes, a novel mode of tumor cell-macrophage communication in tumor cell invasion. Samer Hanna, Bronx, NY

4:35 p.m.  970 Transforming NTRK2 and NTRK3 mutations as potential drivers of leukemia. Sunil K. Joshi, Portland, OR

Room N227, McCormick Place North (Level 2)
Molecular and Cellular Biology / Genetics
Epigenetic Mechanisms of Tumor Progression
Cochairs: Carol A. Lange, Minneapolis, MN; Jonna M. Frasor, Chicago, IL

3:00 p.m. Introduction

3:05 p.m.  971 Three-dimensional gene regulatory landscapes in normal and cancer cells. Brian J. Abraham, Cambridge, MA

3:20 p.m.  972 Defining the molecular context of MYC and WDR5 at chromatin. Alissa D. Guarnaccia, Nashville, TN

3:35 p.m.  973 MEKK3 sustains EMT and stemness in pancreatic cancer by regulating YAP and TAZ transcriptional activity. Geny Piro, Verona, Italy

3:50 p.m.  974 Alternative polyadenylation of androgen receptor variants in castration-resistant prostate cancer. Jamie L. Van Etten, Minneapolis, MN

4:05 p.m.  975 Functional CRISPR screen towards identifying novel epigenetic cofactors of oncogenic AR-activity. Abhijit Parolia, Ann Arbor, MI

4:20 p.m.  976 FOXA1 promotes a luminal growth program in prostate cancer. Elizabeth J. Adams, New York, NY

4:35 p.m.  977 Glycosylation of estrogen receptor alpha by N-acetylgalactosaminytransferase 6 in breast cancer. Boya Deng, Chicago, IL

Room S501, McCormick Place South (Level 5)
Clinical Research
Radiation Science
Chair: Bruce F. Kimler, Kansas City, KS

3:00 p.m. Introduction

3:05 p.m.  978 In vivo shRNA screening identifies synthetic cytotoxicity in CREBBP/EP300 mutant head and neck cancer. Heath D. Skinner, Houston, TX

**Program as of March 20, 2018
<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>3:20 p.m.</td>
<td>979  EGLN inhibition reduces gastrointestinal radiation toxicity and improves survival in a murine model of locally advanced pancreatic cancer. Cullen M. Taniguchi, Houston, TX</td>
</tr>
<tr>
<td>3:35 p.m.</td>
<td>980  Molecular basis of adipose-derived stem cell (ASCs) therapy for management of radiation-induced fibrosis (RIF). Asim Ejaz, Pittsburgh, PA</td>
</tr>
<tr>
<td>3:50 p.m.</td>
<td>981  Wee-1 kinase inhibitor AZD-1775 radiosensitizes esophageal cancer through targeting G2 checkpoint activation. Linlin Yang, Columbus, OH</td>
</tr>
<tr>
<td>4:05 p.m.</td>
<td>982  Pharmacologic DNA-PK inhibition induces ATM/p53 dependent premature senescence with immunomodulatory phenotype in irradiated cancer cells. Lyubomir T. Vassilev, Billerica, MA</td>
</tr>
<tr>
<td>4:20 p.m.</td>
<td>983  Metabolic radiosensitization: Overcoming the radioresistance of hypoxic tumors by targeting OXPHOS. Martin Benej, Columbus, OH</td>
</tr>
<tr>
<td>4:35 p.m.</td>
<td>984  Systematic annotation of genetic variants that determine sensitivity to radiation: A pan-cancer encyclopedia. Brian D. Yard, Cleveland, OH</td>
</tr>
</tbody>
</table>

Room S106 - McCormick Place South (Level 1)
**Tumor Biology**
**Building the Microenvironment through Crosstalk**

**Cochairs:** Sheila A. Stewart, St. Louis, MO; Sandra S. McAllister, Boston, MA

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>3:00 p.m.</td>
<td>Introduction</td>
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<tr>
<td>3:05 p.m.</td>
<td>992  Pancreatic tuft cells resolve injury and restrain tumorigenesis. Kathleen E. DelGiorno, La Jolla, CA</td>
</tr>
<tr>
<td>3:20 p.m.</td>
<td>993  Wnt-er is coming: WNT5A promotes a slow cycling phenotype via p53 in conditions of stress. Marie R. Webster, Philadelphia, PA</td>
</tr>
<tr>
<td>3:35 p.m.</td>
<td>994  Cancer cells induce a protumorigenic senescent phenotype in fibroblasts through MMP1 but not autophagy in large cell carcinoma of the lung. Jordi Alcaraz, Barcelona, Spain</td>
</tr>
<tr>
<td>3:50 p.m.</td>
<td>995  Tumor-stroma IL-1β-IRAK4 feedforward circuitry drives tumor fibrosis, chemo-resistance and is associated with poor prognosis in pancreatic cancer. Daoxiang Zhang, St. Louis, MO</td>
</tr>
<tr>
<td>4:05 p.m.</td>
<td>996  Host-derived MCP-1 dictates prostate cancer skeletal metastasis in vivo. Yi Lu, Shenzhen, China</td>
</tr>
<tr>
<td>4:20 p.m.</td>
<td>997  The cholesterol metabolite 27-hydroxycholesterol promotes breast cancer progression by affecting immune responses. Amy E. Baek, Urbana, IL</td>
</tr>
<tr>
<td>4:35 p.m.</td>
<td>998  Radiation-induced immunosuppressive macrophages limit CD8 T-cell mediated tumor killing. Keaton I. Jones, Oxford, United Kingdom</td>
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SUNDAY, APRIL 15**

**Program as of March 20, 2018

Room S405, McCormick Place South (Level 4)  
*Tumor Biology*  
**Patient-Derived Models of Cancer: Present and Future**

*Cochairs:* Elisa De Stanchina, New York, NY; Katerina A. Politi, New Haven, CT

3:00 p.m.  
**Introduction**

3:05 p.m.  
985  
The EurOPDX EDIReX project: Towards a European research infrastructure on patient-derived cancer models. Enzo Medico, Candiolo, Italy

3:20 p.m.  
986  
The National Cancer Institute’s patient-derived models repository (PDMR). Yvonne A. Evrard, Frederick, MD

3:35 p.m.  
987  
Organoid-based characterization of patient tumors and microenvironments at single-cell resolution. Ameen A. Salahudeen, Stanford, CA

3:50 p.m.  
988  
Short-term culture of organotypic tumor spheroids derived from patient xenografts in a novel 3D microfluidic chip predicts in vivo response of targeted therapies. Russell Jenkins, Boston, MA

4:05 p.m.  
989  
Organoid cultures from normal and cancer-prone human breast tissues preserve complex epithelial lineages and can form chimeric mammary glands in vivo. Jennifer M. Rosenbluth, Boston, MA

4:20 p.m.  
990  
Single-cell profiling of small cell lung cancer circulating tumor cell-derived xenograft models reveals intratumoral heterogeneity among mediators of chemoresistance. C. Allison Stewart, Houston, TX

4:35 p.m.  
991  
Development and characterization of patient-derived xenografts from central nervous system metastasis reveal minor clone expansion linked with aggressive tumor behavior. Ben Yi Tew, Los Angeles, CA

**NCI/NIH-SPONSORED SESSION**  
• 3:15 p.m.–4:45 p.m.

Room W192, McCormick Place West (Level 1)  
**NIH-Supported Infrastructure and Resources to Support Metabolomics Research**  
(not eligible for CME credit)

*Moderator:* Krista Anne Zanetti, Rockville, MD

3:20 p.m.  
Barbara A. Spalholz, Bethesda, MD

3:45 p.m.  
Victoria L. Stevens, Atlanta, GA

4:10 p.m.  
Krista Anne Zanetti, Rockville, MD

4:35 p.m.  
Discussion

**Program as of March 20, 2018

110  
AACR ANNUAL MEETING 2018
AWARDS AND LECTURES • 3:30 p.m.-4:15 p.m.

Room W196, McCormick Place West (Level 1)
Distinguished Lecture

Revolutions and innovations from DNA and biotechnology to convergence.
Phillip A. Sharp, Cambridge, MA

MEET AND GREET • 3:30 p.m.–4:15 p.m.

AACRcentral Amphitheater, Exhibit Hall A, McCormick Place South (Level 3)
Meet the Mentor: Undergraduate Focus
(not eligible for CME credit)

Chair: Kathleen W. Scotto, New Brunswick, NJ
Mentor to be announced.

PROFESSIONAL ADVANCEMENT SESSION • 3:30 p.m.–5:00 p.m.

Great Lakes E-G, Marriott Marquis Chicago Hotel
Getting Hired! Organized by the Associate Member Council (AMC)
(not eligible for CME credit)

3:35 p.m. How to format your CV/resume to the position for which you apply.
Speaker to be announced

3:55 p.m. How to ace a job interview. Edith A. Perez, South San Francisco, CA

4:15 p.m. How to negotiate a job offer. Anees Chagpar, New Haven, CT

4:35 p.m. Panel discussion and Q&A.
AWARDS AND LECTURES • 4:00 p.m.–4:45 p.m.

Room S100 (Grand Ballroom), McCormick Place South (Level 1)
Fourteenth Annual AACR-Irving Weinstein Foundation Distinguished Lecture

Gene editing and diagnostics using CRISPR tools. Jennifer A. Doudna, Berkeley, CA

Dr. Doudna is recognized for her groundbreaking scientific contributions to the fields of cell biology, chemistry, and genetics, specifically with regards to work related to CRISPR-Cas9 systems, including the characterization of these systems in conferring bacterial immunity and the development of CRISPR-Cas9 as a mechanism for eukaryotic gene editing.

MEET AND GREET • 4:00 p.m.–5:00 p.m.

Booth 1431, Exhibit Hall A, McCormick Place South (Level 3)
Meet the Editor-in-Chief of Cancer Research: Chi Van Dang, MD, PhD
(not eligible for CME credit)

Chi Van Dang, New York, NY

POSTER DISCUSSION SESSION • 4:00 p.m.–5:00 p.m.

Room S402, McCormick Place South (Level 4)
Targeting the Cell Cycle: Mechanism and Therapy
(not eligible for CME credit)

Chair: Selina Chen-Kiang, New York, NY

The abstracts presented in this Poster Discussion Session will also be presented in the following Poster Session:

Targeting the Cell Cycle: Mechanism and Therapy
Monday, April 16, 2018, 8:00 a.m.–12:00 p.m.
Section 23, Hall A, McCormick Place South (Level 3)

4:00 p.m. Introduction

4:10 p.m.  1522  The CDK4/6 inhibitor G1T38 enhances response to targeted therapies in preclinical models of non-small cell lung cancer. Jessica A. Sorrentino, Research Triangle Park, NC

**Program as of March 20, 2018
<table>
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<th>Time</th>
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<tr>
<td>4:15 p.m.</td>
<td>Repression of IRF4 and CYTIP unleashes antitumor interferon response in CDK4 inhibitor therapy in mantle cell lymphoma. Maurizio Di Liberto, New York, NY</td>
</tr>
<tr>
<td>4:20 p.m.</td>
<td>A first-in-class CDK4 inhibitor shows excellent in vitro and in vivo efficacy against ovarian cancer. Laychiluh B. Mekonnen, Adelaide, SA, Australia</td>
</tr>
<tr>
<td>4:25 p.m.</td>
<td>SY-1365, a selective CDK7 inhibitor, exhibits potent antitumor activity against ovarian cancer models in vitro and in vivo. Panagiotis A. Konstantinopoulos, Boston, MA</td>
</tr>
<tr>
<td>4:30 p.m.</td>
<td>WEE1 inhibition suppresses esophageal adenocarcinoma tumor growth both in vitro and in vivo. Timothy G. Whitsett, Phoenix, AZ</td>
</tr>
<tr>
<td>4:35 p.m.</td>
<td>Splicing factors determine breast cancer cell mitosis through control of sister chromatid cohesion. Esmee Koedoot, Leiden, Netherlands</td>
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**AWARDS AND LECTURES • 4:15 p.m.–4:30 p.m.**

Room S404, McCormick Place South (Level 4)
Special MICR Presentation Honoring Dr. Jane Cooke Wright
(not eligible for CME credit)
*Chair:* John M. Carethers, Ann Arbor, MI

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**AWARDS AND LECTURES • 4:30 p.m.–5:15 p.m.**

Room S404, McCormick Place South (Level 4)
Thirteenth Annual AACR-Minorities in Cancer Research
Jane Cooke Wright Memorial Lectureship
Towards understanding the impact of diversity in cancer genome science. John D. Carpten, Los Angeles, CA

Dr. Carpten is being honored for pioneering contributions to cancer health disparities and for his outstanding leadership in cancer genomic science. He is among a small group of cancer geneticists with expertise in both germline genetics and somatic tumor biology.
SUNDAY, APRIL 15**

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

Room W192, McCormick Place West (Level 1)
**NCI as Your Technology Development and Commercialization Partner**
(not eligible for CME credit)

**Moderator:** Michael L. Salgaller, Rockville, MD
Jarrod Borkat, Gaithersburg, MD
Joseph Conrad, Bethesda, MD
Jim Pannucci, Frederick, MD

SCIENCE POLICY SESSION • 5:00 p.m.-6:15 p.m.

Room W190, McCormick Place West (Level 1)
**The Cancer Survivorship Landscape: Potential Focus Areas for the Future**
A Special Session in the Memory of Jimmie C. Holland, MD
(not eligible for CME credit)

**Moderator:** Anna D. Barker, Scottsdale, AZ

**Panelists:** Julia H. Rowland, Bethesda, MD
Gregory J. Aune, San Antonio, TX
Shelley Fuld Nasso, Silver Spring, MD
Brenda Nevidjon, Pittsburgh, PA
Julie K. Silver, Charlestown, MA
Patty Spears, Raleigh, NC
Doug Ulman, Columbus, OH

AWARDS AND LECTURES • 5:30 p.m.–6:15 p.m.

Room S406, Vista Ballroom, McCormick Place South (Level 4)
**Presidential Address**

**Human natural killer cells: From biology to CARs in the clinic.** Michael A. Caligiuri, Duarte, CA

**Program as of March 20, 2018**
TOWN MEETING • 5:30 p.m.–7:00 p.m.

Room S104, McCormick Place South (Level 1)
Chemistry in Cancer Research Working Group (CICR)
Town Hall Meeting and Networking Reception
(not eligible for CME credit)

5:30 p.m.  Opening remarks: CICR Chair. Melissa M. Vasbinder, Lexington, MA
5:40 p.m.  CICR Editor: Update on CICR Quarterly Newsletter. Zoe Cournia, Athens, Greece
5:45 p.m.  Remarks: CICR Chair-Elect. Julian Blagg, Sutton, Surrey, United Kingdom
5:55 p.m.  Discussion of member issues; closing remarks. Julian Blagg, Sutton, Surrey, United Kingdom

TOWN MEETING • 6:00 p.m.–8:00 p.m.

Room S106, McCormick Place South (Level 1)
Tumor Microenvironment Working Group (TME)
Town Hall Meeting and Networking Reception
(not eligible for CME credit)

6:00 p.m.  TME Chair: Opening remarks. Valerie M. Weaver, San Francisco, CA
6:15 p.m.  TME Chair-Elect: Remarks. Yibin Kang, Princeton, NJ
6:30 p.m.  Tissue mechanics, EMT, and genomic instability. Celeste M. Nelson, Princeton, NJ
6:50 p.m.  Confronting the unique mechanobiology of pancreas cancer. Sunil R. Hingorani, Seattle, WA
7:10 p.m.  Lymphatic vessels: Sensors and regulators of antitumor immunity. Amanda Waite Lund, Portland, OR
7:30 p.m.  Closing remarks. Yibin Kang, Princeton, NJ
SUNDAY, APRIL 15**

SPECIAL SESSION • 6:30 p.m.-8:00 p.m.

Grand Concourse Lobby, McCormick Place North (Level 3)
Networking Hubs
(not eligible for CME credit)
Topics: Liquid Biopsies and Genomics
  The Microbiome
  Obesity and Prevention
  Technology and Convergence

TOWN MEETING • 6:30 p.m.-8:30 p.m.

Room S404, McCormick Place South (Level 4)
Pediatric Cancer Working Group
Town Hall Meeting and Networking Reception
(not eligible for CME credit)

Chair: Crystal L. Mackall, Stanford, CA
Chair-Elect. Kimberly Stegmaier, Boston, MA

The R2 platform as ITCC-P4 solution for data analysis and data sharing. Jan Koster, Amsterdam, Netherlands
The Terry Fox PROFYLE project. Adam Shlien, Toronto, ON, Canada
The Pediatric Cancer Research Data Commons project. Samuel Volchenboum, Chicago, IL
NCI-COG Pediatric MATCH Program. D. William Parsons, Houston, TX

**Program as of March 20, 2018**
MEET-THE-EXPERT SESSION • 7:00 a.m.–8:00 a.m.

Room S103, McCormick Place South (Level 1)
3D Histology with Advanced Microscopy: Purpose and Practice
Richard Torres, New Haven, CT

Room S106, McCormick Place South (Level 1)
Cryo-EM in Cancer Research
Sriram Subramaniam, Bethesda, MD

Room S101, McCormick Place South (Level 1)
Disparities in Access to Genomic Testing in Lung Cancer
David R. Spigel, Nashville, TN

Room S405, McCormick Place South (Level 4)
Dissecting the Role of p53 in Mediating Normal Tissue Injury from Radiation
David G. Kirsch, Durham, NC

Room S404, McCormick Place South (Level 4)
Improving Patient Outcomes Through the Engine of Basic Research
Richard M. Marais, Manchester, United Kingdom

Room N427, McCormick Place North (Level 4)
The MANO Method: A High-Throughput Evaluation System for Variants of Uncertain Significance in the Cancer Genome
Hiroyuki Mano, Tokyo, Japan

Room N228, McCormick Place North (Level 2)
Metastatic Niche: Diverse Functions and Therapeutic Opportunities
Yibin Kang, Princeton, NJ

Room S402, McCormick Place South (Level 4)
New Paradigms for the Treatment of Metastatic Cancer in Humans
Bruce R. Zetter, Boston, MA

**Program as of March 20, 2018
MONDAY, APRIL 16**

Meet-the-Expert Sessions (cont’d)

Room S406 (Vista Ballroom), McCormick Place South (Level 4)
**Next-Generation Immunotherapies: Targeting Innate Lymphocytes and Tumor Microenvironment**
Eric Vivier, Marseille, France

Room S504, McCormick Place South (Level 5)
**Systemic Therapy for Locally Advanced and Metastatic Bladder Cancer: A Rapidly Evolving Landscape**
Elizabeth R. Plimack, Philadelphia, PA

Room S102, McCormick Place South (Level 1)
**Therapy-Related Myeloid Neoplasms: When Genetics and Environment Collide**
Michelle M. Le Beau, Chicago, IL

Room W190, McCormick Place West (Level 1)
**TRIM24: An Epigenetic Oncogene and Breast Cancer**
Michelle C. Barton, Houston, TX

Room S100 (Grand Ballroom), McCormick Place South (Level 1)
**Using CRISPR-Enabled Functional Genomics to Chart the DNA Damage Response**
Daniel Durocher, Toronto, ON, Canada

Room S103, McCormick Place South (Level 1)
**Using Implementation Science Strategies to Reduce Cancer Disparities in Urban and Rural Settings**
Graham A. Colditz, St. Louis, MO

Room N227, McCormick Place North (Level 2)
**Using Precision Medicine to Address Cancer Health Disparities**
Chanita Hughes-Halbert, Charleston, SC

**Program as of March 20, 2018**
AWARDS AND LECTURES • 7:15 a.m.-8:00 a.m.

Room S501, McCormick Place South (Level 5)
Distinguished Lecture

Cancer biomarkers: Moving from promise to reality. Anna D. Barker, Scottsdale, AZ

AWARDS AND LECTURES • 7:15 a.m.-8:00 a.m.

Room S105, McCormick Place South (Level 1)
Distinguished Lecture

New strategies for HER2 targeted therapy in breast cancer. C. Kent Osborne, Houston, TX

POSTER SESSION • 8:00 a.m.-12:00 p.m.

Exhibit Hall A, McCormick Place South (Level 3)
(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/AACR2018), and in the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

Tumor Biology

Section 1 Adaptation and Checkpoints in Tumorigenesis
Section 2 Advances in the Generation and Analysis of Patient-Derived Xenografts
Section 3 Biomarkers of Metastasis
Section 4 Mechanisms Underlying Metastasis 2
Section 5 Regulation of Stemness in Cancer
Section 6 Translational Therapeutics in Cancer Models 1
Section 7 Tumor Heterogeneity 2
Science Education
Section 8 2018 Margaret Foti Undergraduate Prizes in Cancer Research

Epidemiology
Section 9 Descriptive Epidemiology of Cancer
Section 10 Genetic Contributions to Cancer Epidemiology 2: Next-Generation Sequencing and Familial Cancers

Prevention Research
Section 11 Molecular Mechanisms and Targets for Cancer Prevention

Bioinformatics and Systems Biology
Section 12 Application of Bioinformatics to Cancer Biology 1
Section 13 Integrative Cancer Biology 2

Molecular and Cellular Biology / Genetics
Section 14 Autophagy
Section 15 DNA Repair and Damage Response
Section 16 Epigenetic Therapy
Section 17 Genotype/Phenotype Correlations
Section 18 High-Throughput Sequencing 2
Section 19 Metabolic Pathways
Section 20 Mitosis and Telomeres
Section 21 Navigating the Cancer Chromatin Landscape
Section 22 Novel Biomarkers and Drivers of the Cancer Transcriptome
Section 23 Targeting the Cell Cycle: Mechanism and Therapy

Clinical Research
Section 24 Adoptive Cell Therapy 1
Section 25 Biomarker Discovery 2
Section 26 Liquid Biopsy 2
Section 27 Molecular Diagnostics 2: Laboratory Correlates for Targeted Agents and Preclinical and Clinical Trials
Section 28 Pediatric Cancer
Section 29 Special Populations / Biostatistics in Clinical Trials

**Program as of March 20, 2018**
Cancer Chemistry
Section 30  Target Based Drug Discovery
Section 43  Late-Breaking Research: Cancer Chemistry

Immunology
Section 31  Immune Checkpoints 1
Section 32  Immune Response to Therapies 2
Section 33  Modifiers of the Tumor Microenvironment 2
Section 34  Therapeutic Antibodies, including Engineered Antibodies 1
Section 45  Late-Breaking Research: Immunology 1

Endocrinology
Section 35  Growth Factors and Nuclear Receptor Signaling

Experimental and Molecular Therapeutics
Section 36  Acquired Resistance against Molecularly Targeted Therapies
Section 37  Cell Cycle, Drug Resistance, and Combinations
Section 38  Experimental Agents and Combinations for Hematologic Malignancies 2
Section 39  Identification of Molecular Drug Targets
Section 40  New Targets 1
Section 41  Therapeutic Resistance: New Targets and New Inhibitors
Section 44  Late-Breaking Research: Experimental and Molecular Therapeutics 2

Clinical Trials
Section 42  Phase I Clinical Trials 2

PROFESSIONAL ADVANCEMENT SESSION • 8:15 a.m.–10:00 a.m.
Regency A-B, Hyatt Regency McCormick Place
Women in Cancer Research Career Mentoring Session
(not eligible for CME credit)
Chair: Lucile L. Adams-Campbell, Washington, DC
Keynote Address: Passion, Perseverance, and People: My guiding principles. Marcia R. Cruz-Correa, San Juan, PR
MONDAY, APRIL 16**

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

N Hall B (Plenary Hall), McCormick Place North (Level 3)

Elucidating the Complexities of Cancer

Chair: John D. Carpten, Los Angeles, CA

8:15 a.m. Introduction. John D. Carpten, Los Angeles, CA

8:20 a.m. Advancing cancer diagnostics with artificial intelligence. Jason D. Hipp and Martin Stumpe, Mountain View, CA [PL02-01*]

8:45 a.m. Making the invisible visible in real time. Samuel Achilefu, St. Louis, MO

9:10 a.m. Role of lymphatic vessels in shaping the tumor immune microenvironment. Melody A. Swartz, Chicago, IL

9:35 a.m. Decoding patient genomes through the hierarchical pathway architecture of the cancer cell. Trey Ideker, La Jolla, CA [PL02-04*]

10:00 a.m. Opportunities/challenges for the future. John D. Carpten, Los Angeles, CA

FORUM • 9:30 a.m.–11:30 a.m.

Room S504, McCormick Place South (Level 5)

Minorities in Cancer Research Forum: The Sandwich Generation—Advice on How to Succeed as a Cancer Researcher while Maintaining Life-Work Blend

Cochairs: Sanya A. Springfield, Bethesda, MD; Gerardo Colón-Otero, Jacksonville, FL

Moderator: Sanya A. Springfield, Bethesda, MD

9:40 a.m. Career burnout in medicine and cancer research: What is the evidence? Liselotte (Lotte) N. Dyrbye, Rochester, MN

10:00 a.m. Personal life case presentation. Dineo Khabele, Kansas City, KS

10:20 a.m. Effective burnout prevention: Mayo Clinic School of Medicine experience with the THRIVE program. Alexandra P. Wolanskyj-Spinner, Rochester, MN

10:40 a.m. Personal life case presentation. Luis G. Carvajal-Carmona, Davis, CA

**Program as of March 20, 2018
MEET AND GREET • 10:00 a.m.–11:00 a.m.

Booth 1431, Exhibit Hall A, McCormick Place South (Level 3)
Meet the Editor-in-Chief of Cancer Epidemiology, Biomarkers & Prevention: Timothy R. Rebbeck, PhD
(not eligible for CME credit)
Timothy R. Rebbeck, Boston, MA

SPECIAL SESSION • 10:30 a.m.–11:30 a.m.

Membership Hub, Grand Concourse Lobby
Member Appreciation Hour: Celebrating AACR Long-Term Members
(not eligible for CME credit)

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

Great Lakes E-G, Marriott Marquis Chicago Hotel
Logistics of Starting a Laboratory, Organized by the Associate Member Council (AMC)
(not eligible for CME credit)

10:35 a.m.  Finances and budgeting. Jeffrey P. MacKeigan, Grand Rapids, MI
11:05 a.m.  Recruitment and management of personnel. Cory Abate-Shen, New York, NY
11:25 a.m.  Time management. Aime T. Franco, Little Rock, AR
11:45 a.m.  Panel discussion and Q&A
MAJOR SYMPOSIA • 10:30 a.m.–12:15 p.m.

Room N227, McCormick Place North (Level 2)
CDK Inhibitors: From Bench to Bedside

Chair: Charles J. Sherr, Memphis, TN

10:30 a.m. Introduction

10:35 a.m. CDK4/6 inhibitors: A paradigm shift in cancer treatment. Charles J. Sherr, Memphis, TN

11:05 a.m. Novel mechanisms of acquired resistance to selective CDK4/6 inhibition. Geoffrey I. Shapiro, Boston, MA [SY19-02*]

11:35 a.m. Transcriptional addiction and CDK inhibition in cancer. Richard A. Young, Cambridge, MA

Room S406 (Vista Ballroom), McCormick Place South (Level 4)
Convergence of Immunity and Cancer Metabolism

Chair: Chi Van Dang, New York, NY

10:30 a.m. Introduction

10:35 a.m. Cancer and immune cell food fight. Craig B. Thompson, New York, NY

11:05 a.m. Metabolic checkpoints of antitumor T-cell responses. Susan M. Kaech, New Haven, CT

11:35 a.m. MYC, metabolism, and immunity. Chi Van Dang, New York, NY

Room N427, McCormick Place North (Level 4)
Novel Radiosensitizers

Chair: Julie K. Schwarz, St. Louis, MO

10:30 a.m. Introduction

10:35 a.m. Genomic biomarkers for radiation resistance and targeted radiosensitizers. Henning Willers, Boston, MA [SY24-01*]

11:05 a.m. Improving radiosensitivity in cervical cancer by targeting tumor metabolism. Julie K. Schwarz, St. Louis, MO [SY24-02*]

11:35 a.m. Translation of radiation sensitizers from the laboratory to clinical trials. Geoffrey Higgins, Oxford, 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).

**Program as of March 20, 2018
Room S103, McCormick Place South (Level 1)

**Preclinical Studies of Pediatric Cancer: Beyond Mammalian Models**

**Chair:** Anna Philpott, Cambridge, United Kingdom

10:30 a.m. **Introduction**

10:35 a.m. **Management of MAP kinase and apoptosis signaling thresholds by microRNAs.** W. Brent Derry, Toronto, ON, Canada [SY28-01*]

11:05 a.m. **A phosphorylation switch regulating proliferation and differentiation in *Xenopus* development and neuroblastoma.** Anna Philpott, Cambridge, United Kingdom [SY28-02*]

11:35 a.m. **Visualizing cancer cell processes and therapy responses at single cell resolution using zebrafish.** David M. Langenau, Charlestown, MA

Room W196, McCormick Place West (Level 1)

**Use of Next-Generation Sequencing for Multidisciplinary Molecular Tumor Boards and Treatment Decisions**

**Chair:** David B. Solit, New York, NY

10:30 a.m. **Introduction**

10:35 a.m. **The application of integrative sequencing for precision oncology.** Arul M. Chinnaiyan, Ann Arbor, MI

11:05 a.m. **Reshaping cancer care delivery through multidisciplinary molecular tumor boards.** W. Michael Korn, San Francisco, CA [SY08-02*]

11:35 a.m. **Defining the actionable genome.** David B. Solit, New York, NY

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings (the abstract number is listed in brackets above).
MONDAY, APRIL 16**

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

Room W192, McCormick Place West (Level 1)
NCI Initiatives Generating, Translating, and Sharing “Omics” Data to Advance Precision Oncology (not eligible for CME credit)

**Co-chairs:** Jaime G. Auvil, Bethesda, MD; Jean C. Zenklusen, Bethesda, MD
Jaime Guidry Auvil, Bethesda, MD
Jean C. Zenklusen, Bethesda, MD
Caitlyn Barrett, Bethesda, MD
Ina Felau, Bethesda, MD
Nicholas B. Griner, Rockville, MD
Subhashini Jagu, Bethesda, MD
Christopher Kinsinger, Bethesda, MD
Roy Tarnuzzer, Bethesda, MD
Zhining Wang, Bethesda, MD

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

Room W190, McCormick Place West (Level 1)
Extracellular Vesicles: Current State of the Art and Perspectives

**Chair:** Hector Peinado, Madrid, Spain

10:30 a.m. Biologic and functional heterogeneity of extracellular vesicles: What is an exosome? Clotilde Thery, Paris, France

11:00 a.m. Tracking tumor extracellular vesicles in vivo at high spatiotemporal resolution. Jacky G. Goetz, Strasbourg Cedex, United Kingdom

11:30 a.m. Extracellular vesicles in metastatic dissemination: Tiny messengers hit the road. Hector Peinado, Madrid, Spain

**Program as of March 20, 2018**
N Hall C, McCormick Place North (Level 1)
**In Vivo Monitoring of Immunotherapy Responses**

**Chair:** Hiroyoshi Nishikawa, Kashiwa, Chiba, Japan

10:30 a.m. **Targeting regulatory T cells for therapeutic gain: Means and mechanisms.** Sergio A. Quezada, London, United Kingdom

11:00 a.m. **Immune-suppressive network in tumor microenvironment.** Hiroyoshi Nishikawa, Kashiwa, Chiba, Japan

11:30 a.m. **ImmunopET for in vivo monitoring of immunotherapy responses.** Anna M. Wu, Los Angeles, CA

Room S100 (Grand Ballroom), McCormick Place South (Level 1)
**Microbiome Interplay with Therapy Response**

**Chair:** Laurence Zitvogel, Villejuif, France

10:30 a.m. **The impact of the intestinal microbiome in influencing the efficacy and toxicity of immune checkpoint inhibitors.** Laurence Zitvogel, Villejuif, France

11:00 a.m. **The role of the gut and tumor microbiome in therapeutic response.** Jennifer A. Wargo, Houston, TX

11:30 a.m. **The microbiome at the intersection of host genetics and environmental cues in cancer.** Giorgio Trinchieri, Bethesda, MD

Room S105, McCormick Place South (Level 1)
**Targeting the Drug-Tolerant State**

**Chair:** Jeffrey A. Engelman, Cambridge, MA

10:30 a.m. **Identifying and targeting vulnerabilities in chemotherapy-resistant triple-negative breast cancer.** Helen M. Piwnica-Worms, Houston, TX

10:55 a.m. **Towards rational combinatorial cancer treatment—a functional genomic approach.** Daniel S. Peeper, Amsterdam, Netherlands

11:20 a.m. **Targeting the drug-tolerant state in lung cancer: Can we prevent acquired resistance?** Aaron N. Hata, Charlestown, MA

11:45 a.m. **The tumor microenvironment in therapy response and resistance: Challenges and opportunities.** Anna C. Obenauf, New York, NY
Room 106, McCormick Place South (Level 1)

Translational Research to Address Cardiac Toxicity and Cancer Survivorship

Chair: Jennifer R. Klemp, Westwood, KS

10:30 a.m. Exploring cancer survivorship and the growing demands on health care delivery. Jennifer R. Klemp, Westwood, KS

11:00 a.m. Cardio-oncology and models of translational research from the cardiologist perspective. Daniel J. Lenihan, St. Louis, MO

11:30 a.m. Cardiology and cancer biomarkers: Overlapping risk factors and underlying pathophysiology. Anne H. Blaes, Minneapolis, MN

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

Room S404, McCormick Place South (Level 4)

Brain Metastasis

Chair: Josh Neman, Los Angeles, CA

10:30 a.m. Genetic heterogeneity in brain metastases: Therapeutic implications. Priscilla K. Brastianos, Brookline, MA

11:00 a.m. The role of the blood-tumor barrier in brain metastases. Patricia S. Steeg, Bethesda, MD

11:30 a.m. Breast to brain metastasis: Wolf in sheep’s clothing. Josh Neman, Los Angeles, CA

RECENT ADVANCES IN PREVENTION AND INTERCEPTION RESEARCH • 10:30 a.m.–12:15 p.m.

Room N228, McCormick Place North (Level 2)

Translational Research in Liver Cancer Prevention

Chair: Kenneth Kenji Tanabe, Boston, MA

10:30 a.m. Rising rates and changing landscape and etiology of HCC: Opportunities and challenges for prevention. Ann W. Hsing, Palo Alto, CA

**Program as of March 20, 2018
11:00 a.m.  **Drug discovery for liver cancer chemoprevention.** Thomas Baumert, Strasbourg, France

11:30 a.m.  **Opportunities for secondary prevention of HCC.** Kenneth Kenji Tanabe, Boston, MA

Room S102, McCormick Place South (Level 1)
**Translational Research in Melanoma Prevention**

**Chair:** David E. Fisher, Boston, MA

10:30 a.m.  **From control of pigmentation to pathways controlling sun-seeking behaviors.** David E. Fisher, Boston, MA

11:00 a.m.  **Genetically engineered models: A gateway to next-generation melanoma preventatives.** Christin E. Burd, Columbus, OH

11:30 a.m.  **Preventing DNA photoproducts: Nanoparticles before the beach and quantum chemistry after.** Douglas E. Brash, New Haven, CT

**REGULATORY SCIENCE AND POLICY SESSION • 10:30 a.m.–12:15 p.m.**

Room S401bcd, McCormick Place South (Level 4)
**Scientific and Regulatory Challenges in Development of CAR-T Therapy for Solid Tumors**

**Chair:** Ke Liu, Silver Spring, MD

Gary E. Archer, Durham, NC

Behnam Badie, Duarte, CA

Peter F. Bross, Silver Spring, MD

Stephen Gottschalk, Memphis, TN

Carl H. June, Philadelphia, PA
CLINICAL TRIALS PLENARY SESSION 3 • 10:30 a.m.-12:30 p.m.

N Hall B (Plenary Hall), McCormick Place North (Level 3)

Immunotherapy Combinations: The New Frontier in Lung Cancer

Chair: Alice T. Shaw, Boston, MA

10:30 a.m. CT075 KEYNOTE-189: Randomized, double-blind, phase 3 study of pembrolizumab (pembro) or placebo plus pemetrexed (pem) and platinum as first-line therapy for metastatic NSCLC. Leena Gandhi, New York, NY

10:50 a.m. Discussant. Roy S. Herbst, New Haven, CT

11:00 a.m. CT076 IMpower150: PFS results for atezolizumab (atezo) plus bevacizumab (bev) and chemotherapy (chemo) across PD-L1 expression subgroups defined by the SP142 and SP263 IHC assays confirm all-comer benefit in 1L metastatic NSCLC (mNSCLC). Marcin Kowanetz, South San Francisco, CA

11:20 a.m. Discussant. Justin F. Gainor, Boston, MA

11:30 a.m. CT077 Nivolumab (nivo) + ipilimumab (ipi) vs platinum-doublet chemotherapy (PT-DC) as first-line (1L) treatment (tx) for advanced non-small cell lung cancer (NSCLC): Initial results from CheckMate 227. Matthew D. Hellmann, New York, NY

11:50 a.m. Discussant. Naiyer Rizvi, New York, NY

12:00 p.m. CT078 Tumor mutation burden (TMB) as a biomarker for clinical benefit from dual immune checkpoint blockade with nivolumab (nivo) + ipilimumab (ipi) in first-line (1L) non-small cell lung cancer (NSCLC): Identification of TMB cutoff from CheckMate 568. Suresh S. Ramalingam, Atlanta, GA

12:20 p.m. Discussant to be announced

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

Booth 1431, Exhibit Hall A, McCormick Place South (Level 3)

Meet the Editors-in-Chief of Cancer Discovery: Lewis C. Cantley, PhD and José Baselga, MD, PhD
(not eligible for CME credit)

Lewis C. Cantley, New York, NY

José Baselga, New York, NY

**Program as of March 20, 2018
SPECIAL SESSION • 11:45 a.m.–12:30 p.m.

AACRcentral Amphitheater, Hall A, McCormick Place South (Level 3)
Tumor Microenvironment Working Group (TME)
Networking Session with Early-Career Researchers
(not eligible for CME credit)

11:45 a.m.  Moderator: Daniela F. Quail, Montreal, QC, Canada

11:45 a.m.  TME Career Perspective: Clinical/industry. Alexandra Snyder, New York, NY

11:45 a.m.  TME Career Perspective: Basic science/academia. Mikala Egeblad, Cold Spring Harbor, NY

11:45 a.m.  TME Career Perspective: Journal editing/publishing. Alexia-Ileana Zaromytidou, London, United Kingdom

MEET-THE-EXPERT SESSION • 12:15 p.m.–1:00 p.m.

Room S405, McCormick Place South (Level 4)
Repair of Endogenous DNA Damage
Tomas Lindahl, London, United Kingdom

NCI/NIH-SPONSORED SESSION • 12:15 p.m.–1:45 p.m.

Room W192, McCormick Place West (Level 1)
The NCI Cancer Research Data Commons
(not eligible for CME credit)

Chair: Anthony Kerlavage, Rockville, MD
Allen Dearry, Durham, NC
Tanja M. Davidsen, Bethesda, MD
Izumi Hinkson, Rockville, MD
Stephen Jett, Rockville, MD
Ian M. Fore, Rockville, MD
Juli Klemm, Rockville, MD
MONDAY, APRIL 16**

SPECIAL SESSION • 12:30 p.m.–1:30 p.m.

Room N226, McCormick Place North (Level 2)

Annual Business Meeting of Members
(not eligible for CME credit)

Participants in speaking order:
AACR Chief Executive Officer: Margaret Foti, Philadelphia, PA
AACR President: Michael A. Caligiuri, Duarte, CA
AACR President-Elect: Elizabeth M. Jaffee, Baltimore, MD
AACR Past President: Nancy E. Davidson, Seattle, WA
AACR Treasurer: William N. Hait, Raritan, NJ

SPECIAL SESSION • 12:30 p.m.-2:30 p.m.

Room S103, McCormick Place South (Level 1)

Stand Up To Cancer Open Scientific Session:
Bridging the Gap between the Bench and Bedside
(not eligible for CME credit)


SU2C-Dutch Cancer Society Colorectal Cancer Early Detection Dream Team: Novel detection methodologies. Victor E. Velculescu, Baltimore, MD

SU2C Innovative Research Grant Class of 2016: Dynamic measurement of the evolving cancer genome to guide personalized therapeutic optimization. Daniel A. Landau, New York, NY

SU2C Colorectal Cancer Dream Team: Targeted genomic, metabolic, and immunologic vulnerabilities of colorectal cancer. Luis A. Diaz, Jr., New York, NY


**Program as of March 20, 2018
MAJOR SYMPOSIA • 1:00 p.m.–2:45 p.m.

N Hall C, McCormick Place North (Level 1)
AACR-Bayard D. Clarkson Symposium: Stem Cell Dynamics in Cancer
Chair: Elaine Fuchs, New York, NY

1:00 p.m. Introduction
1:05 p.m. Stem cells in squamous cell carcinomas: Their biology, heterogeneity, and resistance to therapy. Elaine Fuchs, New York, NY [SY39-01*]
1:35 p.m. Imaging stem cell dynamics in living mice. Jacco Van Rheenen, Utrecht, Netherlands
2:05 p.m. Stem cell competition is central to leukemogenesis. Irving L. Weissman, Stanford, CA [SY39-03*]

Room S105, McCormick Place South (Level 1)
Digital Pathology: Advances in Cancer Diagnostics
Chair: Anil Parwani, Columbus, OH

1:00 p.m. Introduction
1:05 p.m. Advancing cancer diagnostics: Applications of digital pathology and artificial intelligence. Anil Parwani, Columbus, OH
1:35 p.m. Telepathology: The value of internal and international teleconsultation for cancer diagnostics. Liron Pantanowitz, Pittsburgh, PA
2:05 p.m. Pixels to diagnosis: How to develop and validate clinically meaningful image analysis algorithms. Metin Gurcan, Winston-Salem, NC

Room N427, McCormick Place North (Level 4)
Exploiting Senescence for Cancer Therapy
Chair: René Bernards, Amsterdam, Netherlands

1:00 p.m. Introduction
1:05 p.m. A one-two punch approach to the treatment of cancer. René Bernards, Amsterdam, Netherlands
1:35 p.m. A versatile senolytic vehicle and its application to cancer. Manuel Serrano, Madrid, Spain
2:05 p.m. Dual targeting of senescence and tumor immunity for cancer therapy. Andrea Alimonti, Bellinzona, Switzerland [SY26-03*]

*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 S406 (Vista Ballroom), McCormick Place South (Level 4)

**Genomic Approaches in Cancer Immunology**

**Chair:** Ash A. Alizadeh, Stanford, CA

1:00 p.m. **Introduction**

1:05 p.m. **Epigenetic programs defining tumor-specific T-cell dysfunction and therapeutic reprogrammability.** Andrea Schietinger, New York, NY

1:35 p.m. **Targets, drivers and resistors of the human antitumor immune response.** Nir Hacohen, Charlestown, MA

2:05 p.m. **Title to be announced.** Ash A. Alizadeh, Stanford, CA

Room S102, McCormick Place South (Level 1)

**Histone and Chromatin Modifier Mutations in Cancer Pathogenesis and Therapeutic Response**

**Chair:** Suzanne J. Baker, Memphis, TN

1:00 p.m. **Introduction**

1:05 p.m. **Driver mutations in chromatin modifiers in medulloblastoma and their potential therapeutic implications.** Stefan M. Pfister, Heidelberg, Germany

1:35 p.m. **Polycomb dysregulation by oncohistones.** Peter W. Lewis, Madison, WI

2:05 p.m. **Transforming chromatin: Oncogenic histone H3 in diffuse intrinsic pontine gliomas.** Suzanne J. Baker, Memphis, TN

Room W196, McCormick Place West (Level 1)

**Resistance to Immunotherapy: Intrinsic and Extrinsic Mechanisms**

**Chair:** Thomas F. Gajewski, Chicago, IL

1:00 p.m. **Introduction**

1:05 p.m. **Understanding tumor escape on a whole-genome level.** Nicholas P. Restifo, Bethesda, MD

1:35 p.m. **Intrinsic tumor genomic and metabolic factors leading to immunoresistance.** Patrick Hwu, Houston, TX

2:05 p.m. **Integrating tumor and host mechanisms of immunotherapy resistance.** Thomas F. Gajewski, Chicago, IL

**Program as of March 20, 2018**
RECENT ADVANCES IN CANCER HEALTH DISPARITIES RESEARCH • 1:00 p.m.–2:45 p.m.

Room S402, McCormick Place South (Level 4)
Prostate Cancer Disparities: Focus on African American Men
Chair: Judd W. Moul, Durham, NC

1:00 p.m.  Prostate cancer in African American men: Disparities in screening. Judd W. Moul, Durham, NC
1:30 p.m.  Distinct biologic features of prostate cancer in African American men. Shiv K. Srivastava, Rockville, MD
2:00 p.m.  Prostate cancer in African American men: Disparities in advanced disease—Management and clinical trial outcomes and opportunities. Celestia S. Higano, Seattle, WA

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

Room S100 (Grand Ballroom), McCormick Place South (Level 1)
Metabolic Vulnerabilities and Cancer Therapy
Chair: Susan E. Critchlow, Macclesfield, United Kingdom

1:00 p.m.  Targeting methionine adenosyltransferase 2 alpha (MAT2A) in MTAP-deleted cancer. Katya Marjon, Cambridge, MA (not eligible for CME credit)
1:25 p.m.  NFS1 undergoes positive selection in lung tumors and protects cells from ferroptosis. Richard L. Possemato, New York, NY [NG02*]
1:45 p.m.  Targeting metabolism in pancreatic cancer. Angela T. Alistar, Morristown, NJ
2:10 p.m.  New developments in targeting lactate transporters. Susan E. Critchlow, Macclesfield, 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 N227, McCormick Place North (Level 2)
**Spatial Interactions in Cancer**

**Chair:** Sylvia K. Plevritis, Stanford, CA

1:00 p.m. **Omic and multiscale image analyses to reveal mechanisms of resistance in breast cancer.** Joe W. Gray, Portland, OR

1:30 p.m. **The role of local and systemic microenvironments in breast tumor progression.** Kornelia Polyak, Boston, MA

2:00 p.m. **Characterizing the spatial microenvironment of primary tumors and paired metastatic lymph nodes.** Sylvia K. Plevritis, Stanford, CA

Room S504, McCormick Place South (Level 5)
**RECENT ADVANCES IN ORGAN SITE RESEARCH • 1:00 p.m.–2:45 p.m.**

**Cutting-Edge Head and Neck Cancer Therapy**

**Chair:** Cherie-Ann O. Nathan, Shreveport, LA

1:00 p.m. **Molecular risk stratification in HPV-positive oropharyngeal squamous cell carcinoma.** Jose P. Zevallos, St. Louis, MO

1:30 p.m. **Multimodality precision immunotherapy.** Umanaheswar Duvvuri, Pittsburgh, PA; J. Silvio Gutkind, La Jolla, CA

2:00 p.m. **Therapeutic targeting of tumor-stroma crosstalk.** Sufi M. Thomas, Kansas City, KS

Room W190, McCormick Place West (Level 1)
**The Epigenetic Basis of Pediatric and Young Adult Brain Tumors**

**Chair:** Michael D. Taylor, Toronto, ON, Canada

1:00 p.m. **Mechanisms in metastasis for medulloblastoma.** Michael D. Taylor, Toronto, ON, Canada

1:30 p.m. **Novel functions of PTEN in the nucleus: What’s a nice lipid phosphatase doing in a place like this?** Frank B. Furnari, La Jolla, CA

2:00 p.m. **Rhabdoid tumor biology: Answers and more questions.** Annie A. Huang, Toronto, ON, Canada

**Program as of March 20, 2018**

AACR ANNUAL MEETING 2018
Room N228, McCormick Place North (Level 2)
**Merkel Cell Carcinoma**

**Chair:** James A. DeCaprio, Boston, MA

1:00 p.m.  **The genomics and epigenomics of merkel cell carcinoma.** Paul W. Harms, Ann Arbor, MI

1:30 p.m.  **UV-induced mutations and polyomavirus target similar pathways in Merkel cell carcinoma.** James A. DeCaprio, Boston, MA

2:00 p.m.  **Immune therapy for Merkel cell carcinoma: Progress and challenges.** Paul Nghiem, Seattle, WA

**RECENT ADVANCES IN PREVENTION AND INTERCEPTION RESEARCH • 1:00 p.m.–2:45 p.m.**

Room S404, McCormick Place South (Level 4)

**RANK Ligand and Molecularly Guided Breast Cancer Prevention**

**Chair:** Geoffrey J. Lindeman, Parkville, Australia

1:00 p.m.  **Tissue mechanics modulates risk to malignancy.** Valerie M. Weaver, San Francisco, CA

1:30 p.m.  **Identifying adult stem/progenitor cell vulnerabilities for chemoprevention.** Rama Khokha, Toronto, ON, Canada

2:00 p.m.  **RANK ligand and breast cancer prevention in BRCA1 mutation carriers.** Geoffrey J. Lindeman, Melbourne, VIC, Australia

**SCIENCE POLICY SESSION • 1:00 p.m.–2:45 p.m.**

Room S401bcd, McCormick Place South (Level 4)

**A Town Hall Discussion of AACR’s Priorities in Tobacco Policy**

**Chair:** Roy S. Herbst, New Haven, CT

**Panelists:** Brian A. King, Atlanta, GA
Cathy Backinger, Silver Spring, MD
Michele Bloch, Rockville, MD
Dorothy K. Hatsukami, Minneapolis, MN
Christopher S. Lathan, Boston, MA
MONDAY, APRIL 16**

POSTER SESSION • 1:00 p.m.-5:00 p.m.

Exhibit Hall A, McCormick Place South (Level 3)
(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 AACR.org/AACR2018), and in the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

Tumor Biology
Section 1 Epithelial Cancer Stem Cell Biology
Section 2 Epithelial-to-Mesenchymal Transition and EMT and TGF-β in Metastasis
Section 3 Novel Mechanisms Regulating Angiogenesis
Section 4 Pediatrics 1: Genomics, Epigenetics, and Biomarkers
Section 5 Surveying the Tumorigenic Microenvironment
Section 6 The Metastatic Microenvironment
Section 7 Translational Therapeutics in Cancer Models 2
Section 8 Tumor Heterogeneity 3

Advocates Poster Session (Scientist↔Survivor Program)
Section 9 Advocates Poster Session 1 (1:00 p.m.-3:00 p.m.)

Epidemiology
Section 10 Screening, Early Detection, and Risk Prediction
Section 44 Late-Breaking Research: Epidemiology and Prevention

Prevention Research
Section 11 Biomarkers, Intervention, and Early Detection for Cancer Prevention

Bioinformatics and Systems Biology
Section 12 Application of Bioinformatics to Cancer Biology 2
Section 13 New Software for Data Analysis

Molecular and Cellular Biology / Genetics
Section 14 CDK and CDK Inhibitors: Mechanism and Therapy
Section 15 Ferroptosis, Metabolism, and Cancer Cell Death
Section 16 Gene Discovery
Section 17 Kinases and Phosphatases

**Program as of March 20, 2018
Section 18  Metabolic Regulation
Section 19  Metabolism and Cellular Functions 2
Section 20  Noncoding RNAs and Cancer
Section 21  Nuclear Oncoproteins and Tumor Suppressor Genes
Section 22  Receptors and Growth Factors
Section 23  Transcription Factor Crosstalk and Aberrant Transcriptional Control
Section 45  Late-Breaking Research: Molecular and Cellular Biology / Genetics 1

Clinical Research
Section 24  Adoptive Cell Therapy 2
Section 25  Biomarker Discovery 3
Section 26  Biomarkers of Therapeutic Response in Clinical Trials
Section 27  Novel Immunotherapies and Laboratory Models in Pediatric Cancer
Section 28  Prognostic Biomarkers
Section 43  Late-Breaking Research: Clinical Research 1

Cancer Chemistry
Section 30  Antitumor Agents
Section 31  Cancer Biology Insights Emerging from Proteomic Investigations

Immunology
Section 32  Immune Checkpoints 2
Section 33  Immune Mechanisms Invoked by Therapies 1
Section 34  Therapeutic Antibodies, Including Engineered Antibodies 2

Experimental and Molecular Therapeutics
Section 36  Design, Structure/Activity, and Modeling
Section 37  Modulation of DNA Damage and Repair
Section 38  Monitoring the Evolution of Therapeutic Resistance
Section 39  New Agents and New Targets
Section 40  New Targets 2
Section 41  Novel Experimental Combinations

Clinical Trials
Section 42  Phase II-III Clinical Trials
MONDAY, APRIL 16**

**Program as of March 20, 2018**

CAREER DISCUSSION • 1:30 p.m.–2:15 p.m.

AACRcentral Amphitheater, Hall A, McCormick Place South (Level 3)
Careers in Industry, Organized by the Associate Member Council (AMC)
(not eligible for CME credit)

NCI/NIH-SPONSORED SESSION • 1:45 p.m.–2:45 p.m.

Room W192, McCormick Place West (Level 1)
NCI Cancer Diagnosis Program Initiatives and Resources
(not eligible for CME credit)
Aniruddha Ganguly, Bethesda, MD
Lyndsay N. Harris, Rockville, MD
Mickey Williams, Frederick, MD

MEET THE RESEARCH ICON • 2:30 p.m.-3:00 p.m.

AACRcentral Amphitheater, Hall A, McCormick Place South (Level 3)
Meet the Research Icon, Organized by the Associate Member Council (AMC)
(not eligible for CME credit)

SPECIAL SESSION • 2:45 p.m.- 4:45 p.m.

Room S103, McCormick Place South (Level 1)
Stand Up To Cancer Open Scientific Session: Harnessing the Whole Immunotherapy Arsenal
(not eligible for CME credit)
SU2C-St. Baldrick’s Foundation Pediatric Cancer Dream Team: Novel CAR T. Crystal L. Mackall, Stanford, CA
SU2C-American Cancer Society Lung Cancer Dream Team: Novel biomarker candidates for response. Roy S. Herbst, New Haven, CT

SU2C Catalyst® Pediatrics Team Supported by Bristol-Myers Squibb: Response of hypermutated cancers to immunotherapy. Uri Y. Tabori, Toronto, ON, Canada

SU2C Innovative Research Grant Class of 2017: Gut microbiome and response to immunotherapy. Jennifer A. Wargo, Houston, TX

Van Andel Research Institute-SU2C Cancer Epigenetics Dream Team and SU2C Catalyst® Lung Epigenetics Team Supported by Merck: Using epigenetic therapies to increase response to immunotherapy. Stephen B. Baylin, Baltimore, MD

AWARDS AND LECTURES • 3:00 p.m.–4:00 p.m.

Room W190, McCormick Place West (Level 1)
NCI Director’s Address and Fireside Chat with AACR Leaders

Moderators: Michael A. Caligiuri, Duarte, CA; Elizabeth M. Jaffee, Baltimore, MD; Norman E. Sharpless, Bethesda, MD

MEET AND GREET • 3:00 p.m.–4:00 p.m.

Booth 1431, Exhibit Hall A, McCormick Place South (Level 3)
Meet the Editor-in-Chief of Molecular Cancer Research: Karen E. Knudsen, PhD
(not eligible for CME credit)

Karen E. Knudsen, Philadelphia, PA
MONDAY, APRIL 16**

POSTER DISCUSSION SESSION • 3:00 p.m.–4:00 p.m.

Room S402, McCormick Place South (Level 4)
**Systems and Computational Biology**
(not eligible for CME credit)
The abstracts presented in this Poster Discussion Session will also be presented in the following Poster Session:

**Systems and Computational Biology**
Tuesday, April 17, 2018, 8:00 a.m.-12:00 p.m.
Section 13, Hall A, McCormick Place South (Level 3)

3:00 p.m. Introduction
3:10 p.m. 3296 SMMART: Serial measurements of molecular and architectural responses to therapy. Brett Johnson, Portland, OR
3:15 p.m. 3297 A tyrosine kinase interactome reveals network states that guide the use of targeted therapies in cancer. Swati Kaushik, San Francisco, CA
3:20 p.m. 3298 High-content phenotyping of somatic cancer mutations by functional variomics. Nidhi Sahni, Houston, TX
3:25 p.m. 3299 High-throughput combinatorial CRISPR-Cas9 gene knockout reveals most genetic interactions are context dependent. John Paul Shen, San Diego, CA
3:30 p.m. 3300 Network analysis of the human protein-protein interactome: Tumorigenic signaling mechanisms. Kamrun N. Begum, New York, NY
3:35 p.m. 3301 Using a novel single-cell lineage-tracing technique to uncover the mechanisms driving nongenetic cancer relapse. Yaara Oren, Boston, MA
3:40 p.m. 3302 The molecular landscape of oncogenic signaling pathways in The Cancer Genome Atlas. Francisco Sanchez-Vega, New York, NY
3:45 p.m. 3303 A comprehensive TCGA Pan-Cancer molecular study of gynecologic and breast cancers. Rehan Akbani, Houston, TX

MEET AND GREET • 3:00 p.m.–4:30 p.m.

AACRcentral-Associate Member Resource and Career Center,
Hall A, McCormick Place South (Level 3)
**Associate Member Council (AMC) Meet and Greet**
(not eligible for CME credit)
AMC Chair: Ken Dutton-Regester, Brisbane, QLD, Australia

**Program as of March 20, 2018
CLINICAL TRIALS MINISYMPOSIUM 2 • 3:00 p.m.-5:00 p.m.

N Hall C, McCormick Place North (Level 1)
Updates in Immuno-oncology Trials

Chair: Michael B. Atkins, Washington, DC

3:00 p.m.  Introduction

3:05 p.m.  CT110  Clinical pharmacology of tisagenlecleucel (CTL019) in patients with relapsed/refractory (r/r) diffuse large B-cell lymphoma (DLBCL).
Rakesh Awasthi, East Hanover, NJ

3:20 p.m.  CT111  Avelumab (anti-PD-L1) as first-line maintenance (1L mn) or second-line (2L) therapy in patients with advanced gastric or gastroesophageal junction cancer (GC/GEJC): updated phase Ib results from the JAVELIN Solid Tumor trial.
Hyun Cheol Chung, Seoul, Republic of Korea

3:35 p.m.  CT112  Durvalumab + tremelimumab in patients with metastatic urothelial cancer.
Arjun V. Balar, New York, NY

3:50 p.m.  CT113  Safety and activity of second-line durvalumab + tremelimumab in non-squamous advanced NSCLC.
Jamie Chaft, New York, NY

4:05 p.m.  CT114  Nivolumab versus docetaxel in a predominantly Chinese patient population with previously treated advanced non-small cell lung cancer (NSCLC): Results of the phase 3 CheckMate 078 study.
Yi-Long Wu, Guangzhou, China

4:20 p.m.  CT115  Updated survival results of the KEYNOTE-040 study of pembrolizumab vs standard-of-care chemotherapy for recurrent or metastatic head and neck squamous cell carcinoma.
Denis Soulières, Montreal, QC, Canada

4:35 p.m.  CT116  Nivolumab (Nivo) vs investigator’s choice (IC) in recurrent or metastatic (R/M) squamous cell carcinoma of the head and neck (SCCHN): 2-yr outcomes in the overall population and PD-L1 subgroups of CheckMate 141.
Robert L. Ferris, Pittsburgh, PA

4:50 p.m.  Discussion
MONDAY, APRIL 16**

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

Room S102, McCormick Place South (Level 1)

**AACR-JCA Joint Symposium: Cancer Cell Plasticity**

**Cochairs:** Mary J.C. Hendrix, Shepherdstown, WV; Yutaka Kondo, Nagoya, Japan

**3:00 p.m.**  
**Tumorigenic roles of lncRNAs in human gliomas.** Yutaka Kondo, Nagoya, Japan

**3:30 p.m.**  
**Targeting the plasticity of aggressive tumor cells.** Mary J.C. Hendrix, Shepherdstown, WV

**4:00 p.m.**  
**Dissecting cancer biology with iPS cell technology.** Yasuhiro Yamada, Tokyo, Japan

**4:30 p.m.**  
**Suppression of EMT in relation to immune cytotoxicity.** Steven M. Frisch, Morgantown, WV

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

Room W196, McCormick Place West (Level 1)

**Clinical Research**

**Molecular Predictors of Response, Mediators of Resistance, Mechanisms of Action, Pharmacodynamic Markers, and Novel Disease Subsets**

**Cochairs:** Catherine C. Smith, San Francisco, CA; Roger S. Lo, Los Angeles, CA

**3:00 p.m.**  
**Introduction**

**3:05 p.m.**  
2951  **Gene expression profiling identifies new adult “triple-negative” acute lymphoblastic leukemia (ALL) subgroups.** Anna Ferrari, Bologna, Italy

**3:20 p.m.**  
2952  **Targeting CDK9 reactivates epigenetically silenced genes in cancer.** Hanghang Zhang, Philadelphia, PA

**3:35 p.m.**  
2953  **Overall survival results of the single-institution molecular screening MOSCATO trial in hard-to-treat advanced cancers.** Yolla El Dakdouki, Paris, France

**3:50 p.m.**  
2954  **Immunomodulator maintenance post autologous stem cell transplant predicts better outcome in multiple myeloma patients with clonal hematopoiesis of indeterminate potential.** Tarek H. Mouhieddine, Boston, MA

**Program as of March 20, 2018**
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<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>4:05 p.m.</td>
<td>2955</td>
<td>A radiomic-based MRI phenotype is uniquely associated with hypermutated genotype in gliomas. Islam Hassan, Houston, TX</td>
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<tr>
<td>4:20 p.m.</td>
<td>2956</td>
<td>Mechanisms of resistance for osimertinib for patients with EGFR-mutant lung cancer: MD Anderson Cancer Center single-institution experience with osimertinib resistance. Xiuning Le, Houston, TX</td>
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<tr>
<td>4:35 p.m.</td>
<td>2957</td>
<td>Sequential transcriptomic and phosphorylation landscape of acute myelogenous leukemia (AML) on the single-cell level. Victoria E. Wang, San Francisco, CA</td>
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Room S406 (Vista Ballroom), McCormick Place South (Level 4)

**Clinical Research**

**Use of Liquid Biopsies in Clinical Trials**

**Cochairs:** Costanza Paoletti, Ann Arbor, MI; Dario Marchetti, Houston, TX

<table>
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<th>Time</th>
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<tr>
<td>3:00 p.m.</td>
<td>Introduction</td>
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<tr>
<td>3:05 p.m.</td>
<td>2958</td>
<td>Development of a superenhancer element-associated transcription factor signature in primary tumors for the identification of liver metastasis in colorectal cancer patients. Roshni Roy, Dallas, TX</td>
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<td>3:20 p.m.</td>
<td>2959</td>
<td>Analysis of circulating tumor DNA reveals genomic alterations in metastatic prostate cancer patients treated with abiraterone acetate plus prednisone or enzalutamide. Jelena Belic, Graz, Austria</td>
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<td>3:35 p.m.</td>
<td>2960</td>
<td>Concordance of genomic single-nucleotide variations (SNV) by next-generation sequencing (NGS) in paired tumor tissue and plasma in colorectal cancer (CRC). Preeti Lal, Graz, Austria</td>
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<td>3:50 p.m.</td>
<td>2961</td>
<td>First metastasis NGS analysis reveals new targets for personalized treatment in advanced breast cancer. Celine Callens, Paris, France</td>
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<tr>
<td>4:05 p.m.</td>
<td>2962</td>
<td>Clinical relevance of circulating cell-free DNA using amplicon-based next-generation sequencing panel in colorectal cancer patients with liver metastasis. Hiroki Osumi, Tokyo, Japan</td>
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<tr>
<td>4:20 p.m.</td>
<td>2963</td>
<td>Characterization of disease evolution in sequential sampled metastatic breast cancer using liquid biopsy. Lisa Welter, Los Angeles, CA</td>
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<tr>
<td>4:35 p.m.</td>
<td>2964</td>
<td>On-treatment changes in circulating tumor DNA (ctDNA) level as an early predictor of clinical outcome in the LOTUS randomized phase 2 trial of 1st-line ipatasertib (IPAT) + paclitaxel (PAC) for metastatic triple-negative breast cancer (mTNBC). Matthew J. Wongchenko, South San Francisco, CA (not eligible for CME credit)</td>
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MONDAY, APRIL 16**

**Program as of March 20, 2018

Room S505, McCormick Place South (Level 5)

**Epidemiology**

**Genetic and Molecular Epidemiology of Cancer Risk and Prognosis**

**Cochairs:** Michael B. Cook, Rockville, MD; Michael E. Scheurer, Houston, TX

3:00 p.m. **Introduction**

3:05 p.m. 2965 Functionally informed genome-wide interaction analysis of nonsteroidal anti-inflammatory drugs on colorectal cancer risk. Xiaoliang Wang, Seattle, WA

3:20 p.m. 2966 A genome-wide scan identifies a new locus associated with pediatric rhabdomyosarcoma. Philip J. Lupo, Houston, TX

3:35 p.m. 2967 Ethnic-specific risk of neurotoxicity and its impact on treatment outcomes among pediatric patients receiving acute lymphoblastic leukemia therapy. Michael E. Scheurer, Houston, TX

3:50 p.m. 2968 Imputation of the prostate cancer transcriptome in over 230,000 men reveals novel germline-somatic interaction mechanism of cancer risk. Nima C. Emami, San Francisco, CA

4:05 p.m. 2969 Genetically predicted blood protein biomarkers and prostate cancer risk: An analysis in over 140,000 European descendants. Lang Wu, Nashville, TN

4:20 p.m. 2970 Multiple new susceptibility loci identified in genome-wide association study of Ewing sarcoma. Mitchell J. Machiela, Bethesda, MD

4:35 p.m. 2971 Digital image analysis based IHC4+C assay and prognosis in hormone receptor-positive breast cancer. Mustapha Abubakar, Rockville, MD

Room N427, McCormick Place North (Level 4)

**Experimental and Molecular Therapeutics**

**Identification of Biomarkers and Molecular Drug Targets**

**Cochairs:** Harriet Wikman, Hamburg, Germany; Steven A. Johnsen, Goettingen, Germany

3:00 p.m. **Introduction**

3:05 p.m. 2972 Co-clinical trial of olaparib and temozolomide in SCLC PDX models uncovers new biomarkers of sensitivity. Benjamin J. Drapkin, Boston, MA

3:20 p.m. 2973 A comprehensive panel of patient-derived xenografts representing the molecular heterogeneity and diversity of triple-negative breast cancer. Elisabetta Marangoni, Paris, France
3:35 p.m. 2974 Primary tumor data mining identifies a novel synthetic lethal partner of the BRCA1 mutation in breast cancer. Subarna Sinha, Menlo Park, CA

3:50 p.m. 2975 Synthetic lethality in synovial sarcoma: SS18-SSX fusions and DNA damage response (DDR) inhibitors. Emmy DG Fleuren, London, United Kingdom

4:05 p.m. 2976 Confirmation of in-cell target engagement using the proteolysis targeting chimeras (PROTACs) against pirin. Swee Y. Sharp, London, United Kingdom

4:20 p.m. 2977 PI3K/mTOR pathway inhibition induces Aurora B-mediated cell death in NOTCH1 mutant head and neck squamous (HNSCC) cells. Vaishnavi Sambandam, Houston, TX

4:35 p.m. 2978 The utilization of a human MCL1 knockin mouse suggests that reductions in B-cells and monocytes may serve as clinically relevant pharmacodynamic markers of MCL1 inhibition. Brian Belmontes, Thousand Oaks, CA

(not eligible for CME credit)

Room S100 (Grand Ballroom), McCormick Place South (Level 1)

Immunology

Defining New Immunotherapeutic Targets through Deep Molecular Characterization

Cochairs: Matthew Spitzer, San Francisco, CA; Katerina A. Politi, New Haven, CT

3:00 p.m. Introduction

3:05 p.m. 2979 A balance of genomic instability, tumor-immune contexture and TGF-β signaling contributing to exclusion of T cells governs response to PD-L1 checkpoint blockade. Sanjeev Mariathasan, South San Francisco, CA

3:20 p.m. 2980 Single-cell RNA sequencing reveals AML immunoediting under pressure from engineered T-cell therapy. Kelly G. Paulson, Seattle, WA

3:35 p.m. 2981 Clonal deletion of tumor-specific T cells by combination checkpoint blockade compromises antitumor efficacy in low tumor burden states. Chien-Chun Steven Pai, San Francisco, CA

3:50 p.m. 2982 Somatic TP53 mutations alter the immune microenvironment after chemotherapy in breast cancer. Mellissa J. Nixon, Nashville, TN

4:05 p.m. 2983 CD25 enables oncogenic BCR and TCR signaling and represents a therapeutic target in lymphoblastic malignancies. Jaewoong Lee, Monrovia, CA
4:20 p.m.  2984  Effects of anti-CTLA-4 and anti-PD-1 on memory T-cell differentiation and resistance to tumor relapse. Stephen Mok, Houston, TX

4:35 p.m.  2985  Radiotherapy and αCD40 nonredundantly augment immunity to checkpoint blockade in refractory pancreatic ductal adenocarcinoma. Hannah Dada, Philadelphia, PA

Room S403, McCormick Place South (Level 4)

Molecular and Cellular Biology / Genetics

Drugging the Undruggable: Using Synthetic Lethality and Other Approaches to Develop New Treatment Strategies

Cochairs: Tomoo Iwakuma, Kansas City, KS; Scott J. Weir, Kansas City, KS

3:00 p.m.  Introduction

3:05 p.m.  2986  E-cadherin/ROS1 inhibitor synthetic lethality in breast cancer. Ilirjana Bajrami, London, United Kingdom

3:20 p.m.  2987  Identification of new combination therapies for lung tumors harboring KRAS mutations. Miriam Molina-Arcas, London, United Kingdom

3:35 p.m.  2988  Loss of Rbm38 cooperates with mutant p53 to promote lymphomagenesis through downregulation of Pten. Jin Zhang, Davis, CA

3:50 p.m.  2989  BET inhibitors induce Rac1-dependent MNK and eIF4E phosphorylation in cancer cells. Thao Pham, Chicago, IL

4:05 p.m.  2990  Attenuation of RNA polymerase II pausing mitigates BRCA1-associated R-loop accumulation and tumorigenesis. Xiaowen Zhang, San Antonio, TX

4:20 p.m.  2991  Cytoplasmic mislocalization of CTCF by NPM1c in acute myeloid leukemia resulting in inhibited CTCF regulatory functions generating aberrant genetic and epigenetic profiles. Atom Wang, Toronto, ON, Canada

Room N227, McCormick Place North (Level 2)

Molecular and Cellular Biology / Genetics

Cancer Epigenetics and Epigenetic Therapy

Cochairs: Daniel Diniz De Carvalho, Toronto, ON, Canada; Cheryl Arrowsmith, Toronto, ON, Canada

3:00 p.m.  Introduction

3:05 p.m.  2993  A switch in epigenetic silencing mechanisms of endogenous retroviruses during human genome evolution. Hitoshi Ohtani, Grand Rapids, MI

**Program as of March 20, 2018**
3:20 p.m.  2994  Discovery of selective, noncovalent small-molecule inhibitors of DNMT1 as an alternative to traditional DNA hypomethylating agents. Melissa B. Pappalardi, Collegeville, PA  
(not eligible for CME credit)

3:35 p.m.  2995  CDK9 phosphorylates BRG1 chromatin remodeler. Somnath Pandey, Philadelphia, PA

3:50 p.m.  2996  Insulator dysfunction and epigenetic oncogene activation in SDH-deficient gastrointestinal stromal tumor. William A. Flavahan, Boston, MA

4:05 p.m.  2997  Epigenomic signatures of acquired platinum resistance in high-grade serous ovarian cancer. Fang Fang, Bloomington, IN

4:20 p.m.  2998  Dynamic 3D chromosomal landscapes in acute leukemia. Palaniraja Thandapani, New York, NY

4:35 p.m.  2999  Low-dose demethylation therapy for the treatment of cisplatin-resistant testicular cancer. Michael J. Spinella, Urbana, IL

Room S504, McCormick Place South (Level 5)  
Molecular and Cellular Biology / Genetics  
Sampling the Cancer Genome and the Epigenome: Opportunities and Exquisite Vulnerabilities  
Cochairs: Nada Jabado, Montreal, QC, Canada; Matthew L. Meyerson, Boston, MA

3:00 p.m.  Introduction

3:05 p.m.  3000  Pervasive intratumor heterogeneity and subclonal selection across cancer types. Stefan Dentro, Cambridge, United Kingdom

3:20 p.m.  3001  Broad/IBM Project: Discovery of treatment resistance mechanisms through use of liquid biopsy genomics services. Gad Getz, Charlestown, MA

3:35 p.m.  3002  Genome engineering approaches to generate models of chromosome arm-level cancer aneuploidy. Alison Marie Taylor, Boston, MA

3:50 p.m.  3003  Loss of heterozygosity of essential genes represents a novel class of cancer vulnerabilities. Caitlin A. Nichols, Boston, MA

4:05 p.m.  3004  Single-cell mutational profiling of clonal evolution in myelodysplastic syndromes (MDS) during therapy and disease progression. Alexey Aleshin, Stanford, CA

4:20 p.m.  3005  International Cancer Genome Consortium. Andrew Biankin, Stanford, CA

4:35 p.m.  3006  Molecular characterization of baseline and serial multiple myeloma patients from the MMRF CoMMpass study. Jonathan J. Keats, Phoenix, AZ
Room S101, McCormick Place South (Level 1)
Clinical Research
Cancer Survivorship and Disparities

Cochairs: Anna D. Barker, Scottsdale, AZ; Jeri Francoeur, Ormond Beach, FL

3:00 p.m. Introduction

3:05 p.m. 3007 Monogenic and polygenic associations with subsequent breast cancer risk in survivors of childhood cancer: The St. Jude Lifetime Cohort Study (SJLIFE). Zhaoming Wang, Memphis, TN

3:20 p.m. 3008 Effect of exercise on acute and late-onset doxorubicin-induced cardiotoxicity. Fei Wang, Houston, TX

3:35 p.m. 3009 Changes in recreational physical activity and prognosis in breast cancer survivors. Audrey Y. Jung, Heidelberg, Germany

3:50 p.m. 3010 Biobanking and genomic research: Understanding and acceptance of safety-net patients, primary care providers, and minority groups. Terry Davis, Shreveport, LA

4:05 p.m. 3011 Determinants and prognostic value of quality of life in patients with pancreatic ductal adenocarcinoma. Yang Deng, Houston, TX

4:20 p.m. 3012 Urban neighborhood and residential factors associated with breast cancer in African American women: A systematic review. Brandi P. Smith, Champaign, IL

Room S405, McCormick Place South (Level 4)
Tumor Biology
Deciphering Cancer Mechanisms in Animal Models

Cochairs: Kathryn A. O’Donnell, Dallas, TX; Fotis Asimakopoulos, Madison, WI

3:00 p.m. Introduction

3:05 p.m. 3014 Location specificity in fusion-negative rhabdomyosarcoma driven by cell of origin. Catherine J. Drummond, Memphis, TN

3:20 p.m. 3015 Precise investigation of cancer stem cells in mouse glioblastoma. Xuanhua P. Xie, New York, NY

3:35 p.m. 3016 Ezh2 is a dose-dependent mediator of prostate cancer aggressiveness and lineage transformation. Kristine M. Wadosky, Buffalo, NY

3:50 p.m. 3017 Identifying drivers for advanced prostate cancer by a transposon-based genetic screen. Min Zou, New York, NY

**Program as of March 20, 2018**
4:05 p.m.  3018  Expression of oncogenic Nras and a MYC transgene in germinal center B cells induces a highly malignant multiple myeloma. Adhithi Rajagopalan, Madison, WI

4:20 p.m.  3019  PRL3 contributes to the onset and progression of T-cell acute lymphoblastic leukemia in a zebrafish model. Rachel E. Sieg, Lexington, KY

4:35 p.m.  3020  An essential role for Argonaute 2 in EGFR-KRAS signaling in pancreatic cancer development. Sunita Shankar, Ann Arbor, MI

Room S501, McCormick Place South (Level 5)

Tumor Biology

Organ-Specific Metastasis

Cochairs: Ruth J. Muschel, Oxford, United Kingdom; Danny R. Welch, Kansas City, KS

3:00 p.m.  Introduction

3:05 p.m.  3021  Plexin-B3 regulates cellular motility, invasiveness, and metastasis in pancreatic cancer. Sugandha Saxena, Omaha, NE

3:20 p.m.  3022  Lymph node metastasis in solid tumors: A marker or driver of disease progression? Ethel R. Pereira, Boston, MA

3:35 p.m.  3023  Dissecting mechanisms of breast cancer metastasis through patient-derived circulating tumor cells. Remi Klotz, Los Angeles, CA

3:50 p.m.  3024  Genomic characterization of organ-specific metastasis from prospective clinical sequencing of 20,000 cancer patients. Francisco Sanchez-Vega, New York, NY

4:05 p.m.  3025  Ligand-independent EphA2 signaling drives an amoeboïd phenotype that promotes melanoma brain metastasis development. Chao Zhang, Tampa, FL

4:20 p.m.  3026  Role of AnnexinA2, Sema3D, and PlexinD1 in mediating perineural invasion as a mechanism of metastasis in pancreatic ductal adenocarcinoma. Noelle R. Jurcak, Baltimore, MD

4:35 p.m.  3027  Single-cell RNA sequencing defines regulatory networks in ER+ breast cancer organ-specific metastases. Nuria Padilla Just, Aurora, CO
REGULATORY SCIENCE AND POLICY SESSION • 3:00 p.m.–5:00 p.m.

Room S401bcd, McCormick Place South (Level 4)

Real World Evidence in Oncology and Its Implications

Chair: Amy P. Abernethy, New York, NY
Sean Khozin, Silver Spring, MD
Jeff D. Allen, Washington, DC
William Capra, San Francisco, CA
Cynthia Huang, New York, NY
Elad Sharon, Bethesda, MD

AWARDS AND LECTURES • 4:15 p.m.-5:00 p.m.

Room S106, McCormick Place South (Level 1)
Second Annual AACR-Waun Ki Hong Award for Outstanding Achievement in Translational and Clinical Cancer Research

Developing combination precision therapies for lung cancer. Pasi A. Jänne, Boston, MA

Dr. Jänne is honored for his seminal therapeutic discoveries, including being one of the codiscoverers of EGFR mutations. Findings from his work have led to the development of several clinical trials.

**Program as of March 20, 2018**
NCI/NIH-SPONSORED SESSION • 4:00 p.m.–5:30 p.m.

Room W192, McCormick Place West (Level 1)
Multidisciplinary Approaches for Single-Cell Analysis
(not eligible for CME credit)
Anthony Dickherber, Marietta, GA
Juli Klemm, Rockville, MD
Shannon Hughes, Bethesda, MD
Nastaran Zahir, Bethesda, MD
Gabor Marth, Salt Lake City, UT
Raul Rabadan, New York, NY
Tania Konry, Boston, MA
Alexander K. Shalek, Cambridge, MA

AWARDS AND LECTURES • 4:15 p.m.–4:30 p.m.

Room S404, McCormick Place South (Level 4)
Special WICR Presentation Honoring Dr. Charlotte Friend
(not eligible for CME credit)
Chair: Judith S. Sebolt-Leopold, Ann Arbor, MI
AWARDS AND LECTURES • 4:30 p.m.–5:15 p.m.

Room S105, McCormick Place South (Level 1)
Fifty-Eighth Annual AACR G.H.A. Clowes Memorial Award

Cancer drivers and dependencies. Scott W. Lowe, New York, NY

Dr. Lowe is recognized for outstanding research on the mechanisms of tumor suppression, including discovering the process of oncogene-induced senescence and how that senescence contributes to therapeutic suppression of tumors in vivo.

AWARDS AND LECTURES • 4:30 p.m.–5:15 p.m.

Room S404, McCormick Place South (Level 4)
Twenty-First Annual AACR-Women in Cancer Research Charlotte Friend Memorial Lectureship

Unraveling mechanisms of oncogenic Ras-mediated tumorigenesis. Dafna Bar-Sagi, New York, NY

Dr. Bar-Sagi, a world-renowned cancer biologist, is recognized for her work in Ras oncogene and its role in the regulation of cell proliferation and survival, tumor immunity, cellular metabolism, and cell-to-cell signaling.

FORUM • 5:00 p.m.–6:30 p.m.

Room S100 (Grand Ballroom), McCormick Place South (Level 1)
Biomarkers of Checkpoint Blockade Inhibitor Response: What Are They?

Moderator: Elaine R. Mardis, Columbus, OH
Panel: Alexandra Snyder, New York, NY
David L. Rimm, New Haven, CT

**Program as of March 20, 2018**
Room W196, McCormick Place West (Level 1)
**The BMI Paradox in Cancer: Does One Size Fit All and What Does It Mean for Cancer Patients?**

**Moderator:** Jeffrey A. Meyerhardt, Boston, MA

**Panel:** Bette J. Caan, Oakland, CA
Pamela J. Goodwin, Toronto, ON, Canada

N Hall C, McCormick Place North (Level 1)
**CTCs and ctDNA: Complementary Biomarkers for Precision Medicine**

**Moderator:** Sarah-Jane Dawson, East Melbourne, VIC, Australia

**Panel:** Daniel F. Hayes, Ann Arbor, MI
Ash A. Alizadeh, Stanford, CA

Room S102, McCormick Place South (Level 1)
**Origins of Metastasis: Monoclonal or Polyclonal?**

**Moderator:** Jonathan P. Sleeman, Mannheim, Germany

**Panel:** G. Steven Bova, Tampere, Finland
Andrew J. Ewald, Baltimore, MD

Room S406 (Vista Ballroom), McCormick Place South (Level 4)
**Precision Therapy: When Is Better—Up Front or at Relapse?**

**Moderator:** Gideon Blumenthal, Silver Spring, MD

**Panel:** Alice T. Shaw, Boston, MA
Scott Kopetz, Houston, TX

Room N227, McCormick Place North (Level 2)
**To Monitor or Not to Monitor: Surveillance in Hereditary Cancer**

**Moderator:** David Malkin, Toronto, ON, Canada

**Panel:** Kim E. Nichols, Memphis, TN
Thierry Frebourg, Rouen, France
MONDAY, APRIL 16**

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

Room N427, McCormick Place North (Level 4)
**AACR/ASCO Joint Session**
Speakers to be announced.

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

Room W190, McCormick Place West (Level 1)
**Unsolved Mysteries: Failure to Translate: The IGF-1R and PI3K Inhibitors**

Chair: Douglas Yee, Minneapolis, MN
Failure to translate: The IGF-1R and PI3K inhibitors. Douglas Yee, Minneapolis, MN
Why aren’t PI3K inhibitors working in clinical trials? Carlos L. Arteaga, Dallas, TX
IGF-1R: A challenging target. Valentine Moya Macaulay, Oxford, United Kingdom

**TOWN MEETING** • 5:00 p.m.–7:00 p.m.

Jackson Park A-D, Hyatt Regency McCormick Place
**Minorities in Cancer Research Town Meeting**
(not eligible for CME credit)

Chair: John M. Carethers, Ann Arbor, MI

Great Lakes E-G, Marriott Marquis Chicago
**Radiation Science and Medicine Working Group Town Hall Meeting and Networking Reception: Is Dose per Fraction the New Method to Personalize Radiation Therapy Treatments?**
(not eligible for CME credit)

Chair: David R. Gius, Chicago, IL
Chair-Elect: Mary Helen Barcellos-Hoff, San Francisco, CA
Panelists: Sandra Demaria, New York, NY
Navita Somaiah, London, United Kingdom
Samuel Strober, Stanford, CA
Julia R. White, Columbus, OH

**Program as of March 20, 2018**
AWARDS AND LECTURES • 5:15 p.m.–6:00 p.m.

Room S105, McCormick Place South (Level 1)
Twelfth Annual AACR Princess Takamatsu Memorial Lectureship

Modulating immune response: Lessons learned from mouse models of cancer development. Lisa M. Coussens, Portland, OR

Dr. Coussens is honored for her work that has increased our understanding of immune cells in fostering tumor development and metastasis. Her paradigm-shifting studies have demonstrated that tumor-infiltrating immune cells can be both pro- and antitumorigenic as well as influence response to therapy.

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

Room W192, McCormick Place West (Level 1)
The NCI PREVENT Program: Translating Innovative Ideas in Cancer Prevention to the Clinic
(not eligible for CME credit)

Moderator: Shizuko Sei, North Potomac, MD
Mark S. Miller, Rockville, MD
Elizabeth R. Glaze, Bethesda, MD

PROFESSIONAL ADVANCEMENT SESSION • 6:00 p.m.–8:00 p.m.

Regency A-B, Hyatt Regency McCormick Place
Minorities in Cancer Research Professional Advancement Session: Navigating the Road to a Successful Career in Cancer Research
(not eligible for CME credit)

Cochairs: Brian M. Rivers, Atlanta, GA; Kimlin T. Ashing, Duarte, CA
MONDAY, APRIL 16**

SPECIAL SESSION • 6:00 p.m.–8:00 p.m.

Room S103, McCormick Place South (Level 1)
Joint Cancer Immunology (CIMM) / Tumor Microenvironment (TME) Working Groups Evening Scientific Session
(not eligible for CME credit)

6:00 p.m. Opening remarks: CIMM Chair. Jedd D. Wolchok, New York, NY
6:15 p.m. Microenvironmental regulation of cancer metastasis and therapeutic efficacy. Johanna A. Joyce, Lausanne, Switzerland
6:45 p.m. Combinatorial approaches to checkpoint blockade. F. Stephen Hodi, Boston, MA
7:15 p.m. Results from a phase 1 clinical trial of CXCR4 inhibition in cancers resistant to T-cell checkpoint antagonists. Douglas T. Fearon, Cold Spring Harbor, NY
7:45 p.m. Closing remarks: TME Chair. Valerie M. Weaver, San Francisco, CA

TOWN MEETING • 6:30 p.m.–8:00 p.m.

Room S106, McCormick Place South (Level 1)
Molecular Epidemiology Working Group (MEG) Town Hall Meeting and Networking Reception
(not eligible for CME credit)

6:30 p.m. MEG Chair: Opening remarks. Melissa L. Bondy, Houston, TX
6:45 p.m. MEG Chair-Elect: Remarks. Ellen L. Goode, Rochester, MN
6:55 p.m. Peer review process overview. Angela Y. Ng, Bethesda, MD
7:10 p.m. Etiquette and practices of peer review. Julie R. Palmer, Boston, MA
7:15 p.m. Explaining the process of peer review. Leah E. Mechanic, Bethesda, MD
7:25 p.m. Panel discussion
7:35 p.m. Closing remarks. Ellen L. Goode, Rochester, MN

**Program as of March 20, 2018
TUESDAY, APRIL 17**

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

Room W190, McCormick Place West (Level 1)
**Cancer Stem Cells: A Queen Bee to Target**
Shrikant Anant, Kansas City, KS

Room S102, McCormick Place South (Level 1)
**Epigenetic Therapy: Bench to Bedside**
Jean-Pierre J. Issa, Philadelphia, PA

Room S103, McCormick Place South (Level 1)
**Epigenetics: A Gatekeeper to DNA Amplification**
Johnathan R. Whetstine, Winchester, MA

Room S404, McCormick Place South (Level 4)
**Helicobacter pylori: Paradigm of a Cancer-Inducing Bacterium**
Thomas Meyer, Berlin, Germany

Room S406 (Vista Ballroom), McCormick Place South (Level 4)
**Multiscale Imaging**
Joe W. Gray, Portland, OR

Room N227, McCormick Place North (Level 2)
**Mutant p53 Activities in Somatic and Germline Mouse Tumor Models**
Guillermina Lozano, Houston, TX

Room S504, McCormick Place South (Level 5)
**Population Perspectives on Ovarian Cancer: What Is New in Etiology, Screening, and Prevention?**
Nicolas A. Wentzensen, Bethesda, MD

Room W196, McCormick Place West (Level 1)
**Precision Medicine for Lung Cancer**
Christine M. Lovly, Nashville, TN

**Program as of March 20, 2018**
Room S105, McCormick Place South (Level 1)
**Present and Future Mouse Models for Preclinical Testing of Targeted and Immune Therapeutics**
Kwok-Kin Wong, New York, NY

Room S100 (Grand Ballroom), McCormick Place South (Level 1)
**Principles of Response and Resistance to Cancer Therapies**
*(not eligible for CME credit)*
Levi A. Garraway, Indianapolis, IN

Room S501, McCormick Place South (Level 5)
**Statistics Helps! Avoid Common Pitfalls and Build a Solid Foundation on Quantitative Reasoning in the Big Data Era**
J. Jack Lee, Houston, TX

Room S106, McCormick Place South (Level 1)
**Title to Be Announced**
Otis W. Brawley, Atlanta, GA

Room N228, McCormick Place North (Level 2)
**Uniform, Accurate, and Cost-Effective WGS Variant Calling: The PCAWG Experience**
Lincoln D. Stein, Toronto, ON, Canada

Room N427, McCormick Place North (Level 4)
**Update on Androgen Receptors as a Potential Therapeutic Target in Breast Cancer**
Jennifer K. Richer, Aurora, CO

**Program as of March 20, 2018**
POSTER SESSION • 8:00 a.m.-12:00 p.m.

Exhibit Hall A, McCormick Place South (Level 3)
(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/AACR2018), and in the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

Tumor Biology
Section 1 Cancer Imaging: Immunology and Systems Analysis in Vivo
Section 2 Cancer Stem Cell Characterization
Section 3 Carcinogenesis 1
Section 4 Harnessing the Power of Cell Lines for Cancer Research
Section 5 Immune Cells in the Microenvironment
Section 6 Metastasis, Invasion, and Migration 1
Section 7 Pediatrics 2: Preclinical Therapies, Resistance, and Stem Cells
Section 8 Radiation Studies Using in Vitro and Computational Models

Epidemiology
Section 9 Biomarkers of Exogenous and Endogenous Risk Factors in Cancer Epidemiology

Advocates Poster Session (Scientist↔Survivor Program)
Section 10 Advocates Poster Session 2 (8:00 a.m.-10:00 a.m.)

Prevention Research
Section 11 Prevention, Interception, and Early Detection Research

Bioinformatics and Systems Biology
Section 12 Sequence Analysis and Unique Database Resources
Section 13 Systems and Computational Biology

Molecular and Cellular Biology / Genetics
Section 14 Epigenetic Changes as Molecular Markers of Cancer
Section 15 Exploring Oncogenic Transcription Factors
Section 16 Genomic Instability
Section 17 Genomic Profiling of Tumors 1
TUESDAY, APRIL 17**

Section 18  Genomic Profiling of Tumors 2
Section 19  Kinases 2
Section 20  Metabolomics
Section 21  Oncogene Growth Factors and Their Receptors
Section 22  Therapeutic Approaches
Section 23  Ubiquitylation, Vesicles, and Membranes
Section 45  Late-Breaking Research: Molecular and Cellular Biology / Genetics 2

Clinical Research

Section 24  Adoptive Cell Therapy 3
Section 25  Biomarker Discovery 4
Section 26  Immune Checkpoints 3
Section 27  Liquid Biopsy 3
Section 28  Molecular Classification of Tumors 1: Epigenetic Therapy, Functional and Molecular Imaging, and Tumor Heterogeneity
Section 43  Late-Breaking Research: Clinical Research 2

Cancer Chemistry

Section 30  Drug Delivery

Endocrinology

Section 31  Steroid Receptors and Preclinical Studies of Endocrine-Related Cancers

Immunology

Section 32  Immunomodulatory Agents and Interventions 1
Section 33  Innate Immune Responses in Cancer
Section 34  Therapeutic Antibodies, including Engineered Antibodies 3

Experimental and Molecular Therapeutics

Section 35  Novel and Canonical Targets
Section 36  Novel Assay Technology and Delivery Systems
Section 37  Pharmacogenetics and Pharmacogenomics
Section 38  Receptor Targeting and the Tumor Microenvironment
Section 39  Resistance and Biology
Section 40  Targeting Oncogenes, Tumor Suppressors, or Gene Products
Section 41  Therapeutic Targeting

Clinical Trials

Section 42  Phase I Trials in Progress

**Program as of March 20, 2018
PLENARY SESSION • 8:15 a.m.–10:15 a.m.

N Hall B (Plenary Hall), McCormick Place North (Level 3)
Fundamental and Applied Cancer Immunology

Chair: Crystal L. Mackall, Stanford, CA

8:15 a.m. Introduction. Crystal L. Mackall, Stanford, CA
8:20 a.m. Tools for T cells: New approaches to analyzing T-cell responsiveness and repertoire in cancer. Mark M. Davis, Stanford, CA
8:45 a.m. Exploring and therapeutically exploiting the tumor microenvironment. Johanna A. Joyce, Epalinges, Switzerland
9:10 a.m. Mining and integrating large-scale tumor molecular profiles to inform cancer immunology and immunotherapy. X. Shirley Liu, Boston, MA
9:35 a.m. Overcoming resistance to PD-1 blockade. Antoni Ribas, Los Angeles, CA
10:00 a.m. Opportunities/challenges for the future. Crystal L. Mackall, Stanford, CA

PROFESSIONAL ADVANCEMENT SESSION • 9:00 a.m.–2:00 p.m.

Regency Ballroom A-E, Hyatt Regency McCormick Place
AACR Special Program for High School Students: The Conquest of Cancer and the Next Generation of Cancer Researchers
(not eligible for CME credit)

Chair: Kathleen W. Scotto, New Brunswick, NJ

8:30 a.m. Registration and breakfast
9:00 a.m. Opening remarks
9:10 a.m. Understanding cancer. Speaker to be announced.
9:40 a.m. Keys to cancer prevention. Speaker to be announced.
10:10 a.m. Message from a cancer survivor. Speaker to be announced.
10:30 a.m. Why cancer research needs you. Speaker to be announced.
11:15 a.m. Tour of Exhibit Hall and poster sessions
12:15 p.m. Networking lunch
1:00 p.m. Student poster presentations
1:30 p.m. Prizes, awards, and closing remarks
TUESDAY, APRIL 17**

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

Booth 1431, Exhibit Hall A, McCormick Place South (Level 3)
Meet the Editor-in-Chief of Molecular Cancer Therapeutics: Napoleone Ferrara, MD
(not eligible for CME credit)
Napoleone Ferrara, La Jolla, CA

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

Room W190, McCormick Place West (Level 1)
Breaking Down Silos by Promoting Data Sharing, Standards, and Reproducibility for Cancer Genome Analysis
Chair: Subha Madhavan, Washington, DC
10:30 a.m. Introduction
10:35 a.m. Standardizing and democratizing access to cancer MolDx data to drive treatment decisions. Subha Madhavan, Washington, DC
11:05 a.m. A data biosphere for biomedical research. Benedict Paten, Santa Cruz, CA
11:35 a.m. Reuse of genomics data and lessons for cancer research. Alvis Brazma, Cambridge, United Kingdom [SY31-03*]

Room S504, McCormick Place South (Level 5)
Controlled Proteostasis: Controlling Protein Function by Controlling Protein Levels
Chair: Craig M. Crews, New Haven, CT
10:30 a.m. Introduction
10:35 a.m. PROTAC-mediated protein degradation as a new therapeutic modality. Craig M. Crews, New Haven, CT
11:05 a.m. Small molecules that catalyze the degradation of a splicing factor. Deepak Nijhawan, Dallas, TX
11:35 a.m. Development and mechanistic characterization of USP7 deubiquitinase inhibitors. Ingrid Wertz, South San Francisco, CA [SY23-03*]

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings (the abstract number is listed in brackets above)
**Program as of March 20, 2018
Room S406 (Vista Ballroom), McCormick Place South (Level 4)

**Dharma Master Jiantai Symposium in Biomarkers: Insights into Tumor Cell Fates and Drug Resistance from Single-Cell Analyses**

Chair: Caroline Dive, Manchester, United Kingdom

10:30 a.m.  Introduction

10:35 a.m.  Deciphering intratumoral heterogeneity by single cell RNA sequencing. Itay Tirosh, Rehovot, Israel

11:05 a.m.  Single-cell analysis of therapy resistance in cancer. Arjun Raj, Philadelphia, PA

11:35 a.m.  Molecular analysis of circulating tumor cells: A single cell-based liquid biopsy biomarker of chemo response. Caroline Dive, Manchester, United Kingdom

Room S102, McCormick Place South (Level 1)

**Energy Balance at the Nexus of the Host-Tumor Microenvironment Interaction**

Chair: Lee W. Jones, New York, NY

10:30 a.m.  Introduction

10:35 a.m.  Role of nitrogen metabolism in obesity-associated pancreatic cancer. Nada Y. Kalaany, Boston, MA [SY29-01*]

11:05 a.m.  Obesity-associated inflammation during cancer metastasis. Daniela F. Quail, Montreal, QC, Canada

11:35 a.m.  The impact of aerobic exercise on breast cancer progression. Erik R. Nelson, Urbana, IL [SY29-03*]

Room S103, McCormick Place South (Level 1)

**Identifying Molecular Targets in the “Quiet” Pediatric Genome**

Chair: D. William Parsons, Houston, TX

10:30 a.m.  Introduction

10:35 a.m.  Pediatric cancer genomics: From pilot studies to precision oncology trials. D. William Parsons, Houston, TX

11:05 a.m.  The burden and timing of mutations in childhood cancer genomes. Adam Shlien, Toronto, ON, Canada

11:35 a.m.  Targeting the cancer single cell transcriptome. Sam Behjati, Cambridgeshire, 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 S404, McCormick Place South (Level 4)
Intercepting Metastasis in Gastrointestinal Malignancies

Chair: Eduard Batlle, Barcelona, Spain

10:30 a.m. Introduction
10:35 a.m. Precision medicine strategies for the control of pancreatic cancer. Raghu Kalluri, Houston, TX
11:05 a.m. Targeting DNA repair to improve immune-surveillance and restrict cancer growth. Alberto Bardelli, Candiolo, Italy
11:35 a.m. TGF-beta signaling, immune evasion, and metastasis in colorectal cancer. Eduard Batlle, Barcelona, Spain

N Hall B (Plenary Hall), McCormick Place North (Level 3)
Rational Combination Therapies in Immune-oncology

Chair: Elizabeth M. Jaffee, Baltimore, MD

10:30 a.m. Introduction
10:35 a.m. Raising the tail in cancer immunotherapy: The tissue is the issue; but the scoop is in the poop. Jennifer A. Wargo, Houston, TX
11:05 a.m. A tale of two complexities: Epigenetics and immunology. Nilofer S. Azad, Baltimore, MD
11:35 a.m. MEKing tumors more responsive to immunotherapy: Implications of the MAPK pathway in tumor immune evasion. Justin M. Balko, Nashville, TN

Room N427, McCormick Place North (Level 4)
Tumor Myeloid Microenvironment

Chair: Miriam Merad, New York, NY

10:30 a.m. Introduction
10:35 a.m. Targeting the tumor microenvironment to reawaken tumor immunity. David G. DeNardo, St. Louis, MO
11:05 a.m. The relationship between Batf3-DC and antitumor T-cell responses. Stefani Spranger, Cambridge, MA [SY18-02*]
11:35 a.m. Cross-presenting DC in the TME. Matthew F. Krummel, San Francisco, CA [SY18-03*]

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

**Program as of March 20, 2018
Recent Advances in Diagnostics and Therapeutics Research • 10:30 a.m.–12:15 p.m.

Room S105, McCormick Place South (Level 1)

Recent Advances in Epigenetic Therapy

Chair: Cheryl Arrowsmith, Toronto, ON, Canada

10:30 a.m. Enhancing antitumor immune response by DNA-demethylating agents. Daniel DeCarvalho, Toronto, ON, Canada

11:00 a.m. Epigenetic regulation of cancer cell drug tolerance. Marie Classon, South San Francisco, CA (not eligible for CME credit)

11:30 a.m. Probing the epigenome for therapeutic opportunities. Cheryl Arrowsmith, Toronto, ON, Canada

Room S501, McCormick Place South (Level 5)

Recent Advances in Modeling Autochthonous Cancer in Mice

Chair: Lukas E. Dow, New York, NY

10:30 a.m. Exploring mammary tumorigenesis through somatic CRISPR-based genome editing. Jos Jonkers, Amsterdam, Netherlands

11:00 a.m. Deciphering obesity-mediated immune evasion mechanisms in colorectal tumorigenesis. Omer H. Yilmaz, Cambridge, MA

11:30 a.m. Defining oncogenic drivers in colorectal cancer using in vivo gene editing. Lukas E. Dow, New York, NY

Recent Advances in Organ Site Research • 10:30 a.m.–12:15 p.m.

Room N227, McCormick Place North (Level 2)

Epigenetic Opportunities in Hematologic Cancers

Chair: Ari M. Melnick, New York, NY

10:30 a.m. Myeloma: Epigenetic mechanisms and therapy. Jonathan D. Licht, Gainesville, FL

11:00 a.m. The novel epitranscriptome dimension in leukemia. Michael G. Kharas, Gainesville, FL

11:30 a.m. Harnessing the epigenome for immunotherapy of heme malignancies. Ari M. Melnick, New York, NY
TUESDAY, APRIL 17**

RECENT ADVANCES IN PREVENTION AND INTERCEPTION RESEARCH • 10:30 a.m.–12:15 p.m.

Room W196, McCormick Place West (Level 1)
Cancer Vaccines and Prevention
Chair: Olivera J. Finn, Pittsburgh, PA

10:30 a.m. Next-generation HPV vaccines. Richard B. Roden, Baltimore, MD

11:00 a.m. DCIS as a model for developing breast cancer immunoprevention. Brian J. Czerniecki, Tampa, FL

11:30 a.m. Targeting premalignant lesions with a MUC1 peptide vaccine. Olivera J. Finn, Pittsburgh, PA

REGULATORY SCIENCE AND POLICY SESSION • 10:30 a.m.–12:15 p.m.

Room S401bcd, McCormick Place South (Level 4)
Recently Approved Breakthrough Therapies and New Approval Endpoints
Chair: Ashley F. Ward, Silver Spring, MD
Najat Bouchkouj, Silver Spring, MD
Dow-Chung Chi, Silver Spring, MD
Noelle Frey, Philadelphia, PA
Mark J. Levis, Baltimore MD
Matthew R. Smith, Boston, MA
Additional speakers to be announced.

**Program as of March 20, 2018
CLINICAL TRIALS PLENARY SESSION 4 • 10:30 a.m.-12:30 p.m.

N Hall C, McCormick Place North (Level 1)
Novel Immuno-oncology Strategies

Chair: To be announced

10:30 a.m. CT144 Intratumoral toll-like receptor 9 (TLR9) agonist, CMP-001, in combination with pembrolizumab can reverse resistance to PD-1 inhibition in a phase Ib trial in subjects with advanced melanoma. Mohammed Milhem, Iowa City, IA

10:50 a.m. Discussant to be announced

11:00 a.m. CT145 A Cancer Research UK phase I trial of anti-GD2 chimeric antigen receptor (CAR) transduced T cells (1RG-CART) in patients with relapsed or refractory neuroblastoma. Karin Straathof, London, United Kingdom

11:20 a.m. Discussant to be announced

11:30 a.m. CT146 First-in-human phase I combination of the IL-15 receptor super agonist complex ALT-803 with a therapeutic (anti-CD20) monoclonal antibody (mAb) for patients with relapsed or refractory indolent non-Hodgkin lymphoma (iNHL). Todd A. Fehniger, St. Louis, MO

11:50 a.m. Discussant. Thomas S. Waldmann, Bethesda, MD

12:00 p.m. CT147 Safety and efficacy of high purity and activity NK cells therapy in combination with IgG1 antibody in patients with gastric or colorectal cancer: A phase I clinical trial. Takeshi Ishikawa, Kyoto, Japan

12:20 p.m. Discussant to be announced
TUESDAY, APRIL 17**

MAJOR SYMPOSIUM • 10:30 a.m.–12:30 p.m.

Room S106, McCormick Place South (Level 1)

Cochairs: Laura Fejerman, San Francisco, CA; Rick A. Kittles, Duarte, CA
Moderator: Rick A. Kittles, Duarte, CA

10:30 a.m. Introduction
10:40 a.m. Exploring the TNBC landscape through the AR lens: Our multi-institutional experience. Ritu Aneja, Atlanta, GA
11:00 a.m. Development of a novel therapeutic splice-switching oligonucleotide targeting race-related androgen receptor signaling and aggressive prostate cancer. Jennifer A. Freedman, Durham, NC
11:20 a.m. Tumoral expression of drug and xenobiotic metabolizing enzymes in breast cancer patients of different ethnicities with implications to personalized medicine. Albert J. Steppi, Tallahassee, FL

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

Room W192, McCormick Place West (Level 1)
Funding Opportunities for Cancer Research at Multiple NIH Institutes and Centers
(not eligible for CME credit)

Julia T. Arnold, Bethesda, MD
Sundar Venkatachalam, Rockville, MD
Gary J. Murray, Bethesda, MD
Abee Boyles, Research Triangle Park, NC
Solita Chiayeng Wang, Bethesda, MD
Mukesh Verma, Bethesda, MD
Phuong Kim Pham, Bethesda, MD
Pamela Anne Marino, Bethesda, MD
Syed Musaddaq Quadri, Bethesda, MD

**Program as of March 20, 2018
SPECIAL SESSION • 10:30 a.m.–12:30 p.m.

Room N228, McCormick Place North (Level 2)
Radiation Science and Medicine Working Group Scientific Session: Utilizing Molecular Signatures to Inform Clinical Outcome Predictions in Radiation Response

Chair: David S. Yu, Atlanta, GA

Multi’omic strategies for stratified medicine. Francesca M. Buffa, Oxford, United Kingdom

Preoperative breast radiotherapy: A platform for understanding radiation response. Janet K. Horton, Durham, NC

Physical biomarkers for prognostic stratification of pancreatic cancer and identification of its therapeutic resistance. Eugene J. Koay, Houston, TX

A genomic basis for precision radiation therapy. Javier F. Torres-Roca, Tampa, FL

SPECIAL SESSION • 10:45 a.m.–11:30 a.m.

AACRcentral Amphitheater, Hall A, McCormick Place South (Level 3)
Cancer Immunology Working Group (CIMM) Networking Session with Early-Career Researchers
(not eligible for CME credit)

CIMM Chair and Moderator: Jedd D. Wolchok, New York, NY

Transitioning to a career in academia. Weiping Zou, Ann Arbor, MI

Transitioning to a career in industry. Olivier De Henau, New York, NY

Transitioning to a career in industry. David Schaer, New York, NY

Transitioning to a career in clinical research. Vinod Balachandran, New York, NY

CAREER DISCUSSION • 11:45 a.m.–12:30 p.m.

AACRcentral Amphitheater, Hall A, McCormick Place South (Level 3)
The Role of Social Media in Your Cancer Research Career: Developing an Online Presence, Organized by the Associate Member Council (AMC)
(not eligible for CME credit)
AWARDS AND LECTURES • 12:30 p.m.–1:00 p.m.

Room S402, McCormick Place South (Level 4)
Gertrude B. Elion Cancer Research Award Lecture

The role of mitochondrial fatty acid beta-oxidation in ovarian cancer chemoresistance.
Dong-Joo Cheon, Albany, NY

Dr. Cheon is recognized for her seminal work on the role of mitochondrial fatty acid beta-oxidation in ovarian cancer chemoresistance. She has unveiled a novel mechanism underlying chemoresistance and has paved the pathway for improved treatment strategies for ovarian cancer.

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

Room W192, McCormick Place West (Level 1)
Technology Transfer and Intellectual Property: Career Opportunities for Scientists
(not eligible for CME credit)

Cochairs: Randy Micheletti, Glen Ellyn, IL; Phuong Kim Pham, Bethesda, MD
Jason V. Cristofaro, Bethesda, MD
John Hewes, Rockville, MD
Melissa Maderia, Frederick, MD

REGULATORY SCIENCE AND POLICY SESSION • 1:00 p.m.–1:45 p.m.

Room S401bdc, McCormick Place South (Level 4)
FDA Priorities: A Conversation with Deputy Commissioner Anna Abram

Anna Abram, Silver Spring, MD

**Program as of March 20, 2018
MEET AND GREET • 1:00 p.m.–2:00 p.m.

AACRcentral Amphitheater, Hall A, McCormick Place South (Level 3)
Meet the 2018-2019 AACR President, Elizabeth M. Jaffee, MD
Elizabeth M. Jaffee, Baltimore, MD

Booth 1431, Exhibit Hall A, McCormick Place South (Level 3)
Meet the Editors-in-Chief of Cancer Immunology Research: Robert D. Schreiber, PhD, and Philip D. Greenberg, MD
(not eligible for CME credit)
Robert D. Schreiber, St. Louis, MO
Philip D. Greenberg, Seattle, WA

MAJOR SYMPOSIA • 1:00 p.m.–2:45 p.m.

Room N227, McCormick Place North (Level 2)
Dharma Master Jiantai Symposium in Targeted Therapy: KRAS Revisited: Isoform and Mutation-Specific Functions in Cancer
Chair: Adrienne D. Cox, Chapel Hill, NC

1:00 p.m. Introduction

1:05 p.m. The contextual clues that modulate the oncogenic output of K-Ras.
Kevin M. Haigis, Boston, MA

1:35 p.m. Inhibitor combinations targeting KRAS effector signaling in KRAS-mutant pancreatic cancer. Adrienne D. Cox, Chapel Hill, NC [SY20-02*]

2:05 p.m. State-specific small-molecule ligands for K-Ras. Kevan M. Shokat, San Francisco, CA
Room S103, McCormick Place South (Level 1)

**Distinguishing Aggressive from Nonaggressive Lesions: Foundations for Cancer Prevention**

**Chair:** John S. Witte, San Francisco, CA

**1:00 p.m.**  Introduction

**1:05 p.m.**  Identification of women susceptible to aggressive vs. nonaggressive breast cancer subtypes, and implications for screening/prevention. Montserrat Garcia-Closas, Rockville, MD

**1:35 p.m.**  Genetic and genomic approaches for distinguishing latent from potentially aggressive prostate cancers. John S. Witte, San Francisco, CA

**2:05 p.m.**  Use of genomics and liquid biopsies to define clonal evolution from precursor conditions such as MGUS/smoldering myeloma to overt myeloma. Irene M. Ghobrial, Boston, MA

Room W196, McCormick Place West (Level 1)

**Genetics and Epigenetics in Tumor and TME: Origins, Evolution, and Drug Resistance**

**Chair:** Joseph F. Costello, San Francisco, CA

**1:00 p.m.**  Introduction

**1:05 p.m.**  Why do lung adenocarcinomas respond to kinase inhibitors while glioblastomas don't? Contrasting patterns of tumor evolution. Matthew L. Meyerson, Boston, MA

**1:30 p.m.**  Epigenetics in tumor and tumor microenvironment: Heterogeneity and drug resistance. Christoph Plass, Heidelberg, Germany

**1:55 p.m.**  Functional interrogation of cell plasticity in cancer. Yejing Ge, New York, NY [NG08*]

**2:15 p.m.**  Driver lessons from studies of brain tumor evolution. Joseph F. Costello, San Francisco, CA

N Hall B (Plenary Hall), McCormick Place North (Level 3)

**Genomic/Functional Screens to Predict Response/Resistance to Immunotherapy**

**Chair:** W. Nicholas Haining, Boston, MA

**1:05 p.m.**  Beyond mutational load: Integrated molecular analyses in checkpoint blockade. Alexandra Snyder, New York, NY

**1:30 p.m.**  Bridging clinical and functional genomics to guide discovery of response mechanisms to immune checkpoint blockade. Eliezer M. Van Allen, Brookline, 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).

**Program as of March 20, 2018**
1:55 p.m. Immune evasion mechanisms in melanoma resistant to targeted and/or immunotherapy. Willy Hugo, Los Angeles, CA [NG04*]

2:15 p.m. In vivo genetic screens for genes that modulate tumor immunity. W. Nicholas Haining, Boston, MA

Room S102, McCormick Place South (Level 1)

*Improvement in the Understanding of Global Health Disparities: Ongoing and Recommended Solutions*

Chair: Julie R. Gralow, Seattle, WA

1:00 p.m. Introduction

1:05 p.m. Government and civil society efforts in global cancer control. Ophira Ginsburg, New York, NY [SY03-01*]

1:35 p.m. Innovative strategies for overcoming global disparities in cancer risk assessment and prevention. Olufunmilayo I. Olopade, Chicago, IL

2:05 p.m. Opportunities for international partnering in cancer diagnosis and treatment. Julie R. Gralow, Seattle, WA

Room S406 (Vista Ballroom), McCormick Place South (Level 4)

*Integrative Data Science for the Precision Medicine Era*

Chair: Yu Shyr, Nashville, TN

1:00 p.m. Introduction

1:05 p.m. Knowledge management and decision support for commonly tested susceptibility mutations. Giovanni Parmigiani, Boston, MA [SY32-01*]

1:35 p.m. An evolution in integrative cancer research: From big data to insights. Philip Payne, St. Louis, MO

2:05 p.m. Towards a pathology imaging data commons for discovery and precision oncology. Michael J. Becich, Pittsburgh, PA

*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 S105, McCormick Place South (Level 1)
**Liquid Biopsies in Cancer: Facts, Challenges, and Perspectives**

**Chair:** Catherine Alix-Panabières, Montpellier, France

1:00 p.m.  **Introduction**

1:05 p.m.  **Molecular and functional characterization of circulating tumor cells in carcinoma patients.** Catherine Alix-Panabières, Montpellier, France [SY21-01*]

1:35 p.m.  **Towards cancer screening using circulating DNA.** Y. M. Dennis Lo, Shatin, Hong Kong

2:05 p.m.  **Cancer-derived extracellular vesicles and liquid biopsy: What have we learned?** Dolores Di Vizio, Los Angeles, CA

N Hall C, McCormick Place North (Level 1)
**Metabolic Strategies and Vulnerabilities in Cancer**

**Chair:** Karen H. Vousden, London, United Kingdom

1:00 p.m.  **Introduction**

1:05 p.m.  **Targeting liabilities of altered metabolism in cancer.** Matthew G. Vander Heiden, Cambridge, MA

1:35 p.m.  **Metabolic vulnerability of PTEN mutant cancer.** Ramon E. Parsons, New York, NY [SY22-02*]

2:05 p.m.  **Mutant GNAS drives pancreatic tumorigenesis via PKA-SIK signaling and reprogramming lipid metabolism.** Nabeel M. Bardeesy, 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).

**Program as of March 20, 2018**
Room N427, McCormick Place North (Level 4)
Optimizing Response to Endocrine Therapy

Chair: Rachel Schiff, Houston, TX

1:00 p.m. Introduction
1:05 p.m. Endocrine resistance in metastatic breast cancer: Mechanisms and new therapeutic strategies. Rachel Schiff, Houston, TX [SY01-01*]
1:30 p.m. Not all “SERDs” are equal: Context-independent ER degradation and full ER antagonism define the next generation of ER therapeutics. Ciara Metcalfe, South San Francisco, CA [NG05*]
1:50 p.m. Blockade of estrogen signaling boosts antitumor immunity by dwindling cancer-promoting myelopoiesis. Jose R. Conejo-Garcia, Tampa, FL [SY01-02*]

Room S106, McCormick Place South (Level 1)
Radiomics and Quantitative Imaging

Chair: Michael V. Knopp, Columbus, OH

1:00 p.m. Introduction
1:05 p.m. Imaging-based readouts in oncology: The pathway to upcoming breakthroughs. Michael V. Knopp, Columbus, OH
1:35 p.m. Radiomics and deep learning in breast cancer diagnosis. Maryellen Giger, Chicago, IL
2:05 p.m. Clinical perspective of radiomics in therapy response monitoring. Lawrence H. Schwartz, New York, NY

Room W190, McCormick Place West (Level 1)
Tumor-Host Interactions Regulating Cancer Metastasis

Chair: Danny R. Welch, Kansas City, KS

1:00 p.m. Introduction
1:05 p.m. Metastatic progression enabled by stromal and immune cell plasticity. Rosandra Natasha Kaplan, Potomac, MD
1:30 p.m. Metabolic feedback loops in cancer progression. Brunhilde H. Felding, La Jolla, 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).
**SPECIAL SESSION • 1:00 p.m.–3:00 p.m.**

Room S404, McCormick Place South (Level 4)

**Pediatric Cancer Working Group Scientific Session: Presentations from the NCI Pediatric Preclinical Testing Consortium and the ITCC Pediatric Preclinical Proof-of-Concept Program**

1:00 p.m.  **PPTC overview.** Malcolm A. Smith, Bethesda, MD

1:10 p.m.  **ITCC-P4 overview and current status.** Stefan M. Pfister, Heidelberg, Germany

1:30 p.m.  **Genomic landscape of the Pediatric Preclinical Testing Consortium patient-derived xenograft tumor models.** John M. Maris, Philadelphia, PA

1:55 p.m.  **Systematic target actionability reviews for pediatric solid tumors.** Hubert N. Caron, Basel, Switzerland

2:10 p.m.  **Lessons from the PPTP.** Peter J. Houghton, San Antonio, TX

2:23 p.m.  **Biomarker discovery and development.** Richard B. Lock, Sydney, NSW, Australia

2:35 p.m.  **The single-mouse trial: A preclinical platform feasible for drug screening, model characterization, and translational biomarker development.** Julia B. Schueler, Wilmington, MA

**POSTER SESSION • 1:00 p.m.–5:00 p.m.**

Exhibit Hall A, McCormick Place South (Level 3)

(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/AACR2018), and in the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

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

**Program as of March 20, 2018
### Tumor Biology
- **Section 1**: Carcinogenesis 2
- **Section 2**: Cell Adhesion and Extracellular Matrix
- **Section 3**: Determining How the Immune System Drives Tumor Progression
- **Section 4**: Mechanisms and Models of Gastrointestinal Malignancies
- **Section 5**: Molecular Imaging: Novel Probes and Preclinical Studies
- **Section 6**: Pediatrics 3: Signaling, Transcription, and Metastasis
- **Section 7**: Radiation Studies Using in Vivo and Clinical Models
- **Section 8**: Therapeutic Approaches to Metastasis
- **Section 45**: Late-Breaking Research: Tumor Biology 2

### Epidemiology
- **Section 10**: Biomarkers of Prognosis and Pharmacoepidemiology
- **Section 11**: Cancer in Minority Populations, Health Disparities, and Survivorship Research

### Bioinformatics and Systems Biology
- **Section 13**: Statistical Methods, Mathematical Modeling, and Molecular Modeling

### Molecular and Cellular Biology / Genetics
- **Section 14**: Checkpoints and Cell Cycle Progression
- **Section 15**: Epigenomics
- **Section 16**: Genomic Profiling of Tumors 3
- **Section 17**: GTPases and Their Regulators and Effectors
- **Section 18**: Immunologic and Other Cancer Cell Death
- **Section 19**: MicroRNA Therapeutics
- **Section 20**: Noncoding RNAs: From Biology to Therapy
- **Section 21**: Post-transcriptional and Translational Control of Cell Fate
- **Section 22**: Tumor Suppressor Genes 1
- **Section 23**: Tumor-Stroma and Cell-Cell Interactions

### Clinical Research
- **Section 24**: Diagnostic Biomarkers
- **Section 25**: Immune Checkpoints 4
- **Section 26**: Immune Mechanisms Invoked by Therapies 2
- **Section 27**: Liquid Biopsy 4
- **Section 28**: Molecular Classification of Tumors 2: Molecular Predictors of Response, Tumor Staging, and Correlation of Clinical and Molecular Markers
- **Section 29**: Novel Preclinical Therapies in Pediatric Solid Tumors
- **Section 31**: Drug Discovery Tools
**Immunology**
Section 32  Adaptive Immunity in Tumors
Section 33  Immunomodulatory Agents and Interventions 2
Section 34  New Immunosuppressive Mechanisms in Cancer
Section 44  Late-Breaking Research: Immunology 2

**Regulatory Science and Science Health Policy**
Section 35  Regulatory Science and Science Health Policy

**Experimental and Molecular Therapeutics**
Section 36  Canonical Targets 1
Section 37  Combination Chemotherapy 1
Section 38  DNA Damage and Cell Cycle Regulation Experimental Therapeutics
Section 39  Novel Targets and Inhibitors
Section 40  Microenvironmental and Cell Nonautonomous Factors in Mediating Therapeutic Resistance
Section 41  Pharmacokinetics and Pharmacodynamics
Section 43  Late-Breaking Research: Experimental and Molecular Therapeutics 3

**Clinical Trials**
Section 42  Phase I / II, II, and III Trials in Progress

**NCI/NIH-SPONSORED SESSION • 2:45 p.m.–4:15 p.m.**
Room W192, McCormick Place West (Level 1)
**NCI Funding Opportunities for Diversity Training and Disparities Research in Cancer**
(not eligible for CME credit)

**Moderator:** Peter Ogunbiy, Rockville, MD
Alison Lin, Bethesda, MD
Nicole E. McNeil Ford, Bethesda, MD
Abigail Soyombo, Bethesda, MD
Tiffany A. Wallace, Rockville, MD

**Program as of March 20, 2018**
Clinical Trials Minisymposium 3 • 2:45 p.m.-5:00 p.m.

N Hall C, McCormick Place North (Level 1)

Biomarkers in Immuno-oncology

Chair: Kurt A. Schallper, New Haven, CT

2:45 p.m.  Introduction

2:50 p.m.  CT175   Biomarker analyses from a phase I study of WNT974, a first-in-class Porcupine inhibitor, in patients (pts) with advanced solid tumors. Jordi Rodon, Barcelona, Spain

3:05 p.m.  CT176 Effect of JAK/STAT or PI3Kδ plus PD-1 inhibition on the tumor microenvironment: Biomarker results from a phase Ib study in patients with advanced solid tumors. John M. Kirkwood, Pittsburgh, PA

3:20 p.m.  CT177   Epacadostat plus durvalumab in patients with advanced solid tumors: Preliminary results of the ongoing, open-label, phase I/II ECHO-203 study. Aung Naing, Houston, TX

3:35 p.m.  CT178   Nivolumab monotherapy in patients with advanced platinum-resistant urothelial carcinoma: Efficacy and safety update and association between biomarkers and overall survival in CheckMate 275. Padmanee Sharma, Houston, TX

3:50 p.m.  CT179   Safety, efficacy, and immune correlates of alternative doses and schedules of entinostat combined with pembrolizumab in patients with advanced solid tumors—Results from SNDX-275-0141 phase I trial. Anthony W. Tolcher, San Antonio, TX

4:05 p.m.  CT180   Preliminary phase 1 profile of BMS-986179, an anti-CD73 antibody, in combination with nivolumab in patients with advanced solid tumors. Lillian L. Siu, Toronto, ON, Canada

4:20 p.m.  CT181   Safety, activity, and biomarkers for neoadjuvant anti-PD-1 therapy in melanoma. Alexander C. Huang, Philadelphia, PA

4:35 p.m.  CT182   The anti-PD-1 antibody spartalizumab (PDR001) in combination with dabrafenib and trametinib in previously untreated patients with advanced BRAF V600-mutant melanoma: First efficacy, safety, and biomarker findings from the part 2 biomarker cohort of COMBi-i. Reinhard Dummer, Zürich, Switzerland

4:50 p.m.  Discussion
AWARDS AND LECTURES • 3:00 p.m.-3:45 p.m.
Room S404, McCormick Place South (Level 4)

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

Nuclear receptors, PET imaging, and advances in understanding therapy resistance in breast and prostate cancers. John A. Katzenellenbogen, Urbana, IL

Dr. Katzenellenbogen is recognized for his seminal work on the development of chemical tools to study the estrogen receptor, which is an important biomarker in breast cancer research. He has also created PET imaging agents that are used in the clinic to diagnose prostate and breast cancer.

MEET THE RESEARCH ICON • 3:00 p.m.-3:30 p.m.

AACRcentral Amphitheater, Hall A, McCormick Place South (Level 3)
Meet the Research Icon, Organized by the Associate Member Council (AMC)  
(not eligible for CME credit)

MEET AND GREET • 3:00 p.m.-4:00 p.m.

Booth 1431, Exhibit Hall A, McCormick Place South (Level 3)
Meet the Editor-in-Chief of Cancer Prevention Research: Scott M. Lippman, MD  
(not eligible for CME credit)

Scott M. Lippman, La Jolla, CA

**Program as of March 20, 2018
POSTER DISCUSSION SESSION • 3:00 p.m.–4:00 p.m.

Room S402, McCormick Place South (Level 4)

Liquid Biopsy
(not eligible for CME credit)

The abstracts presented in this Poster Discussion Session will also be presented in the following Poster Session:

Liquid Biopsy 6
Wednesday, April 18, 2018, 8:00 a.m.-12:00 p.m.
Section 27, Hall A, McCormick Place South (Level 3)

3:00 p.m.  Introduction

3:10 p.m.  5598 Development and optimization of a comprehensive high-sensitivity NGS cancer assay and bioinformatics pipeline for plasma cfDNA profiling. Juber Patel, New York, NY

3:15 p.m.  5599 Noninvasive genomic profiling of cerebral spinal fluid in breast cancer patient with leptomeningeal disease. Masahiro Oikawa, Houston, TX

3:20 p.m.  5600 Establishment and characterization of a unique circulating tumor cells-derived xenograft (CDX) in prostate cancer. Vincent Faugeroux, Villejuif, France

3:25 p.m.  5601 Single-cell molecular profiling of circulating tumor cells (CTCs) within the TRACERx study reveals heterogeneous patterns in early non-small cell lung cancer (NSCLC). Francesca Chemi, Manchester, United Kingdom

3:30 p.m.  5602 Detection of circulating cell-free tumor DNA (ctDNA) in patients with small cell lung cancer (SCLC). Sumitra Mohan, Manchester, United Kingdom

3:35 p.m.  5603 Analytical validation of a comprehensive 500-gene ctDNA panel designed for immuno-oncology and DNA damage research. Elena Helman, Redwood City, CA

3:40 p.m.  5604 Novel DNA methylation biomarkers show high sensitivity and specificity for blood-based detection of colorectal cancer—A clinical biomarker discovery and validation study. Sarah Østrup Jensen, Aarhus, Denmark
**LATE-BREAKING MINISYMPOSUM • 3:00 p.m.-5:00 p.m.**

Room S101, McCormick Place South (Level 1)

**Minisymposium: Late-Breaking Research**

**Chair:** Lisa A. Newman, Detroit, MI

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
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<tr>
<td>3:05 p.m.</td>
<td>LB-337 Adipose inflammation and the risk of benign and malignant breast disease in African American women.</td>
<td>Asra N. Shaik, Detroit, MI</td>
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<td>3:20 p.m.</td>
<td>LB-338 SHP2 inhibition enhances sensitivity to MEK inhibitors in multiple resistant cancer models.</td>
<td>Carmine Fedele, New York, NY</td>
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<td>3:35 p.m.</td>
<td>LB-339 Biomarkers predictive of response to pembrolizumab in head and neck cancer (HNSCC).</td>
<td>Tanguy Y. Seiwert, Chicago, IL</td>
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<td>3:50 p.m.</td>
<td>LB-340 Combinatorial platform for CART cell therapy for glioblastoma.</td>
<td>Donald M. O’Rourke, Philadelphia, PA</td>
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<td>4:05 p.m.</td>
<td>LB-341 The Polycomb Repressor Complex 1 promotes recruitment of myeloid-derived suppressor cells and immune evasion during bone colonization in castration-resistant prostate cancer.</td>
<td>Filippo G. Giancotti, Houston, TX</td>
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<td>4:20 p.m.</td>
<td>LB-342 Targeted gene control with bifunctional molecules to harness endogenous chromatin-modifying activity.</td>
<td>Anna M. Chiarella, Chapel Hill, NC</td>
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<td>4:35 p.m.</td>
<td>LB-343 Development of plasma cell-free DNA (cfDNA) assays for early cancer detection: First insights from the Circulating Cell-Free Genome Atlas Study (CCGA).</td>
<td>Alexander A. Aravanis, Menlo Park, CA</td>
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**MAJOR SYMPOSIA • 3:00 p.m.-5:00 p.m.**

Room S103, McCormick Place South (Level 1)

**AACR/CSCO Joint Symposium: Precision Therapeutics**

**Co-chairs:** Marcus E. Peter, Chicago, IL; Gong Chen, Guangzhou, China

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<tr>
<td>3:00 p.m.</td>
<td>Using toxic siRNAs to treat cancer.</td>
<td>Marcus E. Peter, Chicago, IL</td>
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<td>3:30 p.m.</td>
<td>Progress of precision medicine for lung cancer in China.</td>
<td>Zhi-Jie Wang, Beijing, China</td>
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<td>4:00 p.m.</td>
<td>Overcoming drug resistance and tumor heterogeneity in gastrointestinal cancers.</td>
<td>Ryan B. Corcoran, Boston, MA</td>
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<tr>
<td>4:30 p.m.</td>
<td>Progress in precision medicine for gastrointestinal cancer in China.</td>
<td>Zhi-Hao Lu, Beijing, China</td>
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**Program as of March 20, 2018**
Room N228, McCormick Place North (Level 2)

**MICR-MEG Joint Symposium: Aggressive Cancer Phenotypes in Racial/Ethnic Minority Populations: Opportunities and Challenges**

**Cochairs:** Laura Fejerman, San Francisco, CA; Melissa L. Bondy, Houston, TX

**Moderator:** Laura Fejerman, San Francisco, CA

3:10 p.m.  
**Title to be announced.** John M. Carethers, Ann Arbor, MI

3:30 p.m.  
**Title to be announced.** Kathleen A. Cooney, Salt Lake City, UT

3:50 p.m.  
**Title to be announced.** Hashem B. El-Serag, Houston, TX

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

Room S406 (Vista Ballroom), McCormick Place South (Level 4)

**Clinical Research**

**Emerging Immunotherapy Targets and Combination Strategies to Overcome Treatment Resistance**

**Cochairs:** Aude G. Chapuis, Seattle, WA; Patrick A. Ott, Boston, MA

3:00 p.m.  
**Introduction**

3:05 p.m.  
4934  
**Immunostimulatory and oncolytic properties of rotavirus can overcome resistance to immune checkpoint blockade therapy.** Sandrine Valsesia-Wittmann, Lyon, France

3:20 p.m.  
4935  
**High-throughput immune-oncology screen identifies EGFR inhibitors as potent enhancers of CTL antigen-specific tumor cell killing.** Patrick H. Lizotte, Boston, MA

3:35 p.m.  
4936  
**Combination CD40 agonist and PD-1 antagonist antibody therapy enhances vaccine-induced T-cell responses in nonimmunogenic cancers.** Hayley S. Ma, Baltimore, MD

3:50 p.m.  
4937  
**Targeting epithelial membrane protein 2 on breast tumor cells with a fusion construct containing the serine protease granzyme B.** Madhuri Wadehra, Los Angeles, CA

4:05 p.m.  
4938  
**OX40 agonist antibody-based combination therapy with PI3Kβ selective inhibitor enhances T-cell immunity.** Weiyi Peng, Houston, TX

4:20 p.m.  
4939  
**Driving natural killer cell antigen-specific targeting of cancer via next-generation trivalent molecules.** Martin Felices, Minneapolis, MN

4:35 p.m.  
4940  
**Nonredundant roles for immune checkpoint blockade and agonistic CD40 in mediating T-cell responses in pancreatic ductal adenocarcinoma.** Alexander H. Morrison, Philadelphia, PA
TUESDAY, APRIL 17**

Room S504, McCormick Place South (Level 5)

**Epidemiology**

**Endogenous and Exogenous Factors in Cancer Risk and Mortality**

**Cochairs:** Corinne E. Joshu, Baltimore, MD; Siobhan Sutcliffe, St. Louis, MO

3:00 p.m.  Introduction

3:05 p.m.  4941  Sexually transmitted infections and risk of epithelial ovarian cancer: Results from the Nurses’ Health Studies. Renée Turzanski Fortner, Heidelberg, Germany

3:20 p.m.  4942  Serologic markers of infectious agents and ovarian cancer: Markers of prior *Chlamydia trachomatis* infection associated with increased ovarian cancer risk in two independent populations. Britton Trabert, Bethesda, MD

3:35 p.m.  4943  Circulating immunologic markers and risk of multiple myeloma and its precursor disease: A nested case-control study. Jonathan N. Hofmann, Bethesda, MD

3:50 p.m.  4944  Insulin resistance and long-term cancer-specific and all-cause mortality: The Women’s Health Initiative (WHI). Kathy Pan, Torrance, CA

4:05 p.m.  4945  Absolute risk prediction models for pancreatic cancer. Jihye Kim, Boston, MA

4:20 p.m.  4946  The association between antihypertensive medication, sRAGE, and risk of pancreatic cancer: Results from the Women’s Health Initiative Study. Zhensheng Wang, Houston, TX

4:35 p.m.  4947  Aspirin use and risk of lethal prostate cancer in the Atherosclerosis Risk in Communities cohort. Lauren M. Hurwitz, Baltimore, MD

Room W190, McCormick Place West (Level 1)

**Experimental and Molecular Therapeutics**

**A Therapeutic “About Face”: Reversing Drug Resistance**

**Cochairs:** Christine M. Lovly, Nashville, TN; Alexander E. Drilon, New York, NY

3:00 p.m.  Introduction

3:05 p.m.  4948  MDM2 antagonism overcomes resistance to CDK4/6 inhibition in melanoma. Anna E. Vilgelm, Nashville, TN

3:20 p.m.  4949  The role of symmetric cell division in post-therapy glioma-initiating cell expansion. Atique U. Ahmed, Chicago, IL

3:35 p.m.  4950  MPS1 as a novel target in endocrine- and palbociclib-resistant estrogen receptor-positive breast cancer. Joanna Nikitorowicz-Buniak, London, United Kingdom

3:50 p.m.  4951  Inhibiting guanylate binding protein 1 (GBP1) impedes ovarian cancer progression. Dhanir Tailor, Palo Alto, CA

**Program as of March 20, 2018**
4:05 p.m. 4952 Acquired HER2 mutations in ER+ metastatic breast cancer confer resistance to ER-directed therapies. Utthara Nayar, Boston, MA

4:20 p.m. 4953 Metabolic targeting of chemoresistance perturbs clonal complexity in pancreatic cancer. Andrea Viale, Houston, TX

4:35 p.m. 4954 Decoding tumor microenvironment to enhance NSCLC targeted therapy. Haichuan Hu, Charlestown, MA

Room S102, McCormick Place South (Level 1)
Experimental and Molecular Therapeutics
Early Novel Drug Development

Co-chairs: Ricky W. Johnstone, Melbourne, Australia; Scott A. Armstrong, Boston, MA

3:00 p.m. Introduction

3:05 p.m. 4955 Heterogeneous nuclear ribonucleoprotein C as a novel therapeutic target for acute myeloid leukemia. Vindhya Vijay, Gainesville, FL

3:20 p.m. 4956 Functional characterization of the ivosidenib (AG-120) and azacitidine combination in a mutant IDH1 AML cell model. Katharine Yen, Cambridge, MA
(not eligible for CMA credit)

3:35 p.m. 4957 The novel imipridone ONC212 highly synergizes with the BCL-2 inhibitor ABT-199 in AML and activates orphan receptor GPR132. Takenobu Nii, Houston, TX

3:50 p.m. 4958 VTP50469 is a novel, orally available menin-MLL1 inhibitor effective against MLL-rearranged and NPM1-mutant leukemia. Andrei V. Krivtsov, Boston, MA

4:05 p.m. 4959 CP-506, a next-generation hypoxia-activated prodrug, as promising novel anticancer therapeutic. Sophie Thiolloy, Liège, Belgium
(not eligible for CME credit)

4:20 p.m. 4960 First-in-class, highly BDII-selective BET family inhibitor ABBV-744 displays potent antitumor activity in androgen receptor-positive prostate cancer models and an improved tolerability profile. Emily J. Faivre, North Chicago, IL
(not eligible for CME credit)

4:35 p.m. 4961 A highly potent novel class of SRC-3 inhibitors for the treatment of uveal melanoma. Salma Kaochar, Houston, TX
Room W196, McCormick Place West (Level 1)

Immunology
Epigenetic and Metabolic Regulation of Cancer Immunity

Co-chairs: Juan R. Cubillos-Ruiz, New York, NY; Steven Josefowicz, New York, NY

3:00 p.m. Introduction
3:05 p.m. 4962 Metabolic rewiring of macrophages by CpG stimulates antitumor activity that overrides CD47 resistance in pancreatic cancer. Mingen Liu, Philadelphia, PA
3:20 p.m. 4963 Targeting glutamine metabolism as a means of enhancing antitumor T-cell responses. Robert Leone, Baltimore, MD
3:35 p.m. 4964 Metabolically activated macrophages mediate obesity-driven TNBC progression. Payal Tiwari, Chicago, IL
3:50 p.m. 4965 Entinostat transforms the suppressive tumor microenvironment of breast cancer and promotes survival and anti-responses when combined with checkpoint inhibition. Evanthia T. Roussos Torres, Baltimore, MD
4:05 p.m. 4966 The SUV39H1-H3K9me3 axis mediates colon carcinoma cell intrinsic apoptosis and immune evasion. Chunwan Lu, Augusta, GA
4:20 p.m. 4967 HDAC11 function as a transcriptional regulator in immature myeloid cells to myeloid-derived suppressor cells transition. Jie Chen, Washington, DC
4:35 p.m. 4968 Tumor innate immunity primed by specific interferon stimulated endogenous retroviruses. David A. Barbie, Boston, MA

Room S105, McCormick Place South (Level 1)

Molecular and Cellular Biology / Genetics
Metabolism: Emerging Concepts and Therapy

Co-chairs: Sufi M. Thomas, Kansas City, KS; Mark W. Dewhirst, Durham, NC

3:00 p.m. Introduction
3:05 p.m. 4969 Autophagy modulates lipid metabolism to support liver kinase B1 (LKB1)-deficient lung tumor growth. Vrushank D. Bhatt, New Brunswick, NJ
3:20 p.m. 4970 Mitochondrial trafficking in the bone marrow microenvironment promotes bioenergetic flexibility in multiple myeloma. Christopher R. Marlein, Norwich, United Kingdom
3:35 p.m. 4971 Identification of new modulators of nucleotide metabolism and replication stress in PDAC. Evan R. Abt, Los Angeles, CA
3:50 p.m. 4972 PDK inhibition sensitizes bladder tumors to cisplatin. Benjamin L. Woolbright, Kansas City, KS

**Program as of March 20, 2018
4:05 p.m. 4973 MYCN mediates cysteine addiction and sensitizes to ferroptosis in cancer cells. Frank Westermann, Heidelberg, Germany

4:20 p.m. 4974 Prospective study of untargeted urinary metabolomics and risk of lung cancer among female never-smokers in Shanghai, China. Wei Jie Seow, Singapore, Singapore

4:35 p.m. 4975 Tumor metabolism and cognitive dysfunction in CNS lymphoma. James L. Rubenstein, San Francisco, CA

Room S405, McCormick Place South (Level 4)
Molecular and Cellular Biology / Genetics
Understanding the Genomic Dark Matter

Cochairs: Aurora Esquela Kerscher, Norfolk, VA; Carlo M. Croce, Columbus, OH

3:00 p.m. Introduction

3:05 p.m. 4976 Small RNA sequencing of preoperative blood plasma identifies microRNA signature enabling to find pancreatic cancer patients who will not benefit from surgical resection. Ondrej Slaby, Brno, Czech Republic

3:20 p.m. 4977 MIR1307 mediates pancreatic cancer resistance to FOLFIRINOX chemotherapy by affecting response to DNA damage. Chiara Braconi, London, United Kingdom

3:35 p.m. 4978 On circular RNAs in breast cancer. Marcel Smid, Rotterdam, Netherlands

3:50 p.m. 4979 Novel miRNA regulation in an early progression model of pancreatic ductal adenocarcinoma. Nina J. Chu, Baltimore, MD

4:05 p.m. 4980 Regulating the regulator: Long noncoding RNAs in the p53 network in colorectal cancer. Ashish Lal, Bethesda, MD

4:20 p.m. 4981 Circulating mir-320 promotes immunosuppressive macrophages M2 phenotype associated with lung cancer progression. Orazio Fortunato, Milan, Italy

4:35 p.m. 4982 Oncogenic role of THOR, a conserved cancer/testis long noncoding RNA. Yashar Niknafs, Ann Arbor, MI

Room S505, McCormick Place South (Level 5)
Prevention Research
Preclinical Studies of Cancer Prevention

Cochairs: Zigang Dong, Austin, MN; Shivendra V. Singh, Pittsburgh, PA

3:00 p.m. Introduction

3:05 p.m. 4983 Intermittent dosing regimens of naproxen and aspirin inhibit azoxymethane-induced rat colon adenoma progression to adenocarcinoma and carcinoma invasion. Chinthalapally V. Rao, Oklahoma City, OK
3:20 p.m. 4984 Celastrol inhibits high fat diet-induced obesity and intestinal tumorigenesis in APCMin/+ mice by modulating gut microbes and inflammation. Naveena B. Janakiram, Oklahoma City, OK

3:35 p.m. 4985 M4OC-Prevent: Clinical evaluation of metformin for oral cancer precision prevention. J. Silvio Gutkind, La Jolla, CA

3:50 p.m. 4986 Association of sirtuins and diet in cancer development: Studying the roles of SIRT2/3. Mohamed A. Ahmed, Chicago, IL

4:05 p.m. 4987 Biofilm-producing sulfate-reducing bacteria suppress tumor burden in a rat model of colon cancer. Susheel Bhanu Busi, Columbia, MO

4:20 p.m. 4988 PI3Kγ-deficiency protects against pancreatic tumorigenesis at the expense of diet-Induced hyperlipidemia and hepatotoxicity. Carolina Torres, Chicago, IL

4:35 p.m. 4989 Efficacy of erlotinib and/or naproxen when administered by intermittent dosing schedules in the prevention of chemically induced urinary bladder cancers. Altaf Mohammed, Bethesda, MD

Room N227, McCormick Place North (Level 2)

Tumor Biology
Stemness and Cancer

Cochairs: Peter B. Dirks, Toronto, ON, Canada; Adrienne Boire, New York, NY

3:00 p.m. Introduction

3:05 p.m. 4990 Regenerative origin of colorectal metastasis stem cells. Karuna Ganesh, New York, NY

3:35 p.m. 4992 Sirt6 loss increases stemness and defense against oxidative stress in tumor-propagating cells, promoting tumor growth and maintenance in squamous cell carcinoma. Jee-Eun Choi, Boston, MA

3:50 p.m. 4993 Breast epithelial cell lines from normal breast with luminal and intrinsic subtypes-enriched gene expression document interindividual differences in differentiation cascade. Brijesh Kumar, Indianapolis, IN

4:05 p.m. 4994 p53 and RB regulate Hedgehog responsiveness via autophagy-mediated ciliogenesis. Jason E. Cain, Clayton, Australia

4:20 p.m. 4995 Identity fraud: Lineage plasticity as a mechanism of anti-androgen resistance and target for therapy. Alastair H. Davies, Vancouver, BC, Canada

4:35 p.m. 4996 MLL3 haploinsufficiency preserves self-renewal capacity in HSCs with extensive cumulative division histories. Jeffrey Magee, St. Louis, MO

**Program as of March 20, 2018
Room S106, McCormick Place South (Level 1)
Tumor Biology
Molecular Mechanisms Driving Metastasis

Cochairs: Conor C. Lynch, Tampa, FL; Binzhi Qian, Edinburgh, United Kingdom

3:00 p.m. Introduction

3:05 p.m. 4997 Identifying dynamic EMT states and constructing a proteomic EMT landscape of lung cancer using single-cell multidimensional analysis. Loukia G. Karacosta, Stanford, CA

3:20 p.m. 4998 Targeting DHPS to abrogate TGFβ-induced metastasis in breast cancer. Robert Güth, Northridge, CA

3:35 p.m. 4999 Identifying intercellular phenotypic stability factors for a hybrid epithelial-mesenchymal phenotype. Mohit Kumar Jolly, Houston, TX

3:50 p.m. 5000 Biomaterial scaffolds that capture metastatic tumor cells in vivo to detect, treat, and study mechanisms of the premetastatic niche and metastasis. Grace G. Bushnell, Ann Arbor, MI

4:05 p.m. 5001 Identification of a Six2/Sox2/Nanog stem cell axis that promotes breast cancer metastatic colonization. Michael U. Oliphant, Aurora, CO

4:20 p.m. 5002 KRT13 promotes stemness and drives metastasis in breast cancer through direct interaction with plakoglobin-desmoplakin complexes regulating c-Myc signaling pathway. Lijuan Yin, Los Angeles, CA

4:35 p.m. 5003 RNase activity of MCPIP1 regulates key elements of mesenchymal phenotype of clear cell renal cell carcinoma cells. Katarzyna Miekus, Krakow, Poland

Room S501, McCormick Place South (Level 5)
Tumor Biology
Expanding the Definition of the Tumor Microenvironment

Cochairs: Derek C. Radisky, Jacksonville, FL; David G. DeNardo, St. Louis, MO

3:00 p.m. Introduction

3:05 p.m. 5004 Profiling the extracellular matrix landscape of tumor microenvironments using proteomics. Alexandra Naba, Chicago, IL

3:20 p.m. 5005 Aging promotes changes to peritoneal and omental collagen structure that contribute to increased ovarian cancer metastatic success. Elizabeth Harper, Notre Dame, IN

3:35 p.m. 5006 Kit-dependent tissue resident macrophage progenitors drive cancer progression. Paulina Pathria, La Jolla, CA
TUESDAY, APRIL 17**

Minisymposia (cont’d)

3:50 p.m.  **5007** Absence of mammary tissue-resident macrophages is associated with reduced breast cancer susceptibility mediated by the cancer-associated 8q24 gene desert. Adam C. Soloff, Charleston, SC

4:05 p.m.  **5008** Crosstalk between epithelial-\(\text{IKK}\alpha\)-deletion and symbiotic bacterial-fungal infection in skin carcinogenesis. Na-Young Song, Frederick, MD

4:20 p.m.  **5009** Defined factors overcome T-cell exhaustion via abscopal effect. Danny Khalili, New York, NY

4:35 p.m.  **5010** Advantages in using orthotopic syngeneic tumor models to evaluate immune-based approaches for cancer treatment. Jean-François Mirjolet, Dijon Cedex, France

REGULATORY SCIENCE AND POLICY SESSION • 3:00 p.m.–5:00 p.m.

Room S401bcd, McCormick Place South (Level 4)

**Implications of the 2017 FDA Reauthorization Act (FDARA) on Pediatric Cancer Drug Development**

Chair: Gregory H. Reaman, Silver Spring, MD

Speakers: Nancy F. Goodman, Washington, DC
           D. William Parsons, Houston, TX
           Gilles Vassal, Villejuif, France
           Brenda Weigel, Minneapolis, MN

AWARDS AND LECTURES • 3:30 p.m.–4:15 p.m.

Room S100 (Grand Ballroom), McCormick Place South (Level 1)

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

Genetic engineering of anticancer immune responses. Antoni Ribas, Los Angeles, CA

Dr. Ribas is recognized for his groundbreaking contributions to the successful development of checkpoint inhibitor immunotherapy for patients with metastatic melanoma. This has dramatically changed the treatment options for patients with melanoma and many other cancers.

**Program as of March 20, 2018**
AWARDS AND LECTURES • 3:45 p.m.-4:30 p.m.

Room S404, McCormick Place South (Level 4)
Twenty-Seventh Annual AACR-American Cancer Society Award for Research Excellence in Cancer Epidemiology and Prevention

Evolving approaches in cancer epidemiology: Time, serendipity, and risk. Leslie Bernstein, Duarte, CA

Dr. Bernstein is recognized as a world leader in cancer epidemiology and prevention. She has made multiple, sustained contributions to understanding the impact of lifestyle and reproductive factors on breast cancer risk and survival.

AWARDS AND LECTURES • 4:00 p.m.-4:45 p.m.

Room N427, McCormick Place North (Level 4)
Twenty-Third Annual AACR-Joseph H. Burchenal Memorial Award for Outstanding Achievement in Clinical Cancer Research

Re-envisioning clinical cancer research. Johann S. de Bono, Sutton, United Kingdom

Dr. de Bono is honored for seminal contributions to the field of clinical cancer research. His pioneering work has led to numerous drug approvals, including abiraterone, carbazitaxel, olaparib, and afatinib.

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

Room W192, McCormick Place West (Level 1)
Translating Cancer Technologies from Lab to Market: Success Stories from the NCI SBIR Program
(not eligible for CME credit)

Michael Weingarten, Bethesda, MD
TUESDAY, APRIL 17**

SPECIAL SESSION • 4:45 p.m.–6:00 p.m.

Jackson Park A-D, Hyatt Regency McCormick Place  
**Novel Immunotherapeutics Interactome: Small Molecules and Antibody-Drug Conjugates**  
(not eligible for CME credit)  
*Cochairs*: Justin Guinney, Seattle, WA; Rodrigo Dienstmann, Barcelona, Spain

FORUM • 5:00 p.m.–6:30 p.m.

Room S100 (Grand Ballroom), McCormick Place South (Level 1)  
**Cell Autonomous Therapies versus Immunotherapy**  
*Moderator*: Jeffrey A. Engelman, Cambridge, MA  
*Panel*: Neal Rosen, New York, NY  
Thomas F. Gajewski, Chicago, IL

Room S105, McCormick Place South (Level 1)  
**Controversies and Challenges to Targeting Progesterone Receptors in ER+ Breast Cancer**  
*Moderator*: C. Kent Osborne, Houston, TX  
*Panel*: Carol A. Lange, Minneapolis, MN  
Jason Carroll, Cambridge, United Kingdom

N Hall B (Plenary Hall), McCormick Place North (Level 3)  
**Current Status of Cellular Therapy (CAR T Cells and BiTes)**  
*Moderator*: David M. Barrett, Philadelphia, PA  
*Panel*: Nabil Ahmed, Houston, TX  
Ralf Bargou, Würzburg, Germany

N Hall C, McCormick Place North (Level 1)  
**Is Genome-Informed Cancer Medicine Generating Patient Benefit or Just Hype?**  
*Moderator*: José Baselga, New York, NY  
*Panel*: David Hyman, New York, NY  
Vinay K. Prasad, Portland, OR

**Program as of March 20, 2018**
Room N427, McCormick Place North (Level 4)
Prostate Cancer Screening and the Genetics/Biology Contribution to Racial Disparity Outcomes
Moderator: Isaac J. Powell, Detroit, MI
Panel: Ruth D. Etzioni, Seattle, WA
       Aliccia B. Bollig-Fischer, Detroit, MI

Room W196, McCormick Place West (Level 1)
Translational Value of Preclinical Cancer Models: From PDXs to GEMMs and Organoids
Moderator: Frederic J. De Sauvage, South San Francisco, CA
Panel: Karen M. Cichowski, Boston, MA
       Mark A. Rubin, Bern, Switzerland

SCIENCE POLICY SESSION • 5:00 p.m.–6:30 p.m.

Room S401bcd, McCormick Place South (Level 4)
Biden Cancer Foundation Colloquia
Elizabeth M. Jaffee, Baltimore, MD

SPECIAL SESSION • 5:00 p.m.–6:30 p.m.

Room S406 (Vista Ballroom), McCormick Place South (Level 4)
Unsolved Mysteries: Advances in Basic Science and Clinical Care of Cancer Cachexia
Chair: Daniel Marks, Portland, OR

5:00 p.m.  Cancer cachexia: A definition and neuroscience perspective. Daniel Marks, Portland, OR
5:10 p.m.  Molecular mechanisms of muscle wasting in cancer. Denis C. Guttridge, Columbus, OH
5:30 p.m.  Recent clinical trial findings and identification of new therapeutic targets. Marion E. Couch, Indianapolis, IN
**Unsolved Mysteries: The Molecular Definition of Cancer: Does Age at Diagnosis Matter?**

**Chair:** Katherine A. Janeway, Boston, MA

- **5:00 p.m.** Breaking down age barriers traditionally present in oncology. Katherine A. Janeway, Boston, MA
- **5:10 p.m.** The challenge of drug development when molecular mechanisms span age of diagnosis. Barrett J. Rollins, Boston, MA
- **5:30 p.m.** The order and pattern of mutations across the age of diagnosis. Adam Shlien, Toronto, ON, Canada

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**TOWN MEETING • 6:00 p.m.–8:00 p.m.**

**Room S106, McCormick Place South (Level 1)**

**Cancer Immunology Working Group (CIMM)**

**Town Hall Meeting and Networking Reception**

Co-sponsored by the Association for Cancer Immunotherapy (CIMT)

(not eligible for CME credit)

- **6:00 p.m.** Opening remarks: CIMM Chair. Jedd D. Wolchok, New York, NY
- **6:15 p.m.** Remarks: CIMM Chair-Elect. Dmitry I. Gabrilovich, Philadelphia, PA
- **6:30 p.m.** Cancer Immunology Research: Update from the Editors-in-Chief. Robert D. Schreiber, St. Louis, MO; Philip D. Greenberg, Seattle, WA
- **6:35 p.m.** Introduction, CIMT Leadership. Cornelis J. M. Melief, Leiden, Netherlands
- **6:40 p.m.** Individualized cancer vaccination: Current status and perspectives. Sebastian Kreiter, Mainz, Germany
- **7:00 p.m.** How to define a good tumor neoepitope. Pramod K. Srivastava, Farmington, CT
- **7:20 p.m.** Closing remarks. Dmitry I. Gabrilovich, Philadelphia, PA

**Program as of March 20, 2018**
MEET-THE-EXPERT SESSION • 7:00 a.m.–8:00 a.m.

Room S404, McCormick Place South (Level 4)

**Biospecimen Core Resources for Comprehensive Consortium Projects in Cancer**
Scott D. Jewell, Grand Rapids, MI

Room N427, McCormick Place North (Level 4)

**Detection and Therapeutic Targeting of Malignant Stem Cell Reprogramming**
Catriona H. M. Jamieson, La Jolla, CA

Room N228, McCormick Place North (Level 2)

**Dissecting IncRNA Regulatory Mechanisms in Cancer**
Christopher A. Maher, St. Louis, MO

Room S105, McCormick Place South (Level 1)

**How Obesity and Energy Balance Influence Cancer: Epidemiology, Pathophysiology, and Clinical Significance**
Michael N. Pollak, Montreal, QC, Canada

Room S406 (Vista Ballroom), McCormick Place South (Level 4)

**The HSF1 Stress Response Pathway in Cancer: Discovering Chemical Probes and Drugs**
Paul Workman, London, United Kingdom

Room W190, McCormick Place West (Level 1)

**Is There a Therapeutic Window for Wnt Signaling Inhibitors in Cancer?**
Owen Sansom, Glasgow, United Kingdom

Room S102, McCormick Place South (Level 1)

**Mechanism of Tandem Duplication Formation in BRCA1 Mutant Cancer**
Ralph Scully, Boston, MA

Room W196, McCormick Place West (Level 1)

**Molecular Imaging for Characterizing Tumor Biology and Assessing Treatment Response**
Heiko Schoder, New York, NY

**Program as of March 20, 2018**
Room S504, McCormick Place South (Level 5)
**Precision Imaging**
Martin G. Pomper, Baltimore, MD

Room S100 (Grand Ballroom), McCormick Place South (Level 1)
*Reprogramming the Tumor Microenvironment to Enhance “Next-Generation” Adoptive Cellular Therapy*
Kunle Odunsi, Buffalo, NY

Room S402, McCormick Place South (Level 4)
**Title to Be Announced**
Myles A. Brown, Boston, MA

**PLENARY SESSION • 8:00 a.m.–10:00 a.m.**

N Hall B (Plenary Hall), McCormick Place North (Level 3)
**Impact of Cancer Genomics on Cancer Susceptibility and Therapeutic Response**

**Chair:** Karen H. Vousden, London, United Kingdom

8:00 a.m.  **Introduction.**  Karen H. Vousden, London, United Kingdom

8:05 a.m.  **Tumor genomic profiling to identify therapeutic biomarkers and guide clinical care.**  Michael F. Berger, New York, NY

8:30 a.m.  **Pharmacogenomics of chemotherapeutic-induced toxicities: Challenges and opportunities.**  M. Eileen Dolan, Chicago, IL [PL04-02*]

8:55 a.m.  **Chromatin remodeling machines in cancer: New mechanisms and therapeutic opportunities.**  Cigall Kadoch, Boston, MA

9:20 a.m.  **Oncohistones in cancer: How to turn a cell’s symphony into non-harmonic rap?**  Nada Jabado, Montreal, QC, Canada [PL04-04*]

9:45 a.m.  **Opportunities/challenges for the future.**  Karen H. Vousden, 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).

**Program as of March 20, 2018**
POSTER SESSION • 8:00 a.m.-12:00 p.m.

Exhibit Hall A, McCormick Place South (Level 3)
(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/AACR2018), and in the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

Tumor Biology
Section 1 Applications of 3D Models for Tumor Biology and Therapeutic Studies
Section 2 Carcinogenesis 3
Section 3 Carcinoma-Associated Fibroblasts in Tumor Progression
Section 4 Dissecting Tumorigenesis in Vivo Using Genetic Approaches and Spontaneous Tumor Models
Section 5 Metabolism and the Microbiome: Defining the Greater Microenvironment
Section 6 Metastasis, Invasion, and Migration 2
Section 7 Molecular Profiles, Circulating Cancer Cells, and Metastasis
Section 8 The Systemic Microenvironment in Tumorigenesis
Section 44 Late-Breaking Research: Tumor Biology 3

Endocrinology
Section 9 Clinical Endocrinology

Epidemiology
Section 10 Diet, Alcohol, Tobacco, and Other Lifestyle Risk Factors

Prevention Research
Section 11 Population and Behavioral Studies in Cancer

Bioinformatics and Systems Biology
Section 13 New Algorithms
**Program as of March 20, 2018**

WEDNESDAY, APRIL 18**

*Poster Session (cont’d)*

**Molecular and Cellular Biology / Genetics**
- Section 15 DNA Methylation
- Section 16 Genomic Profiling of Tumors 4
- Section 17 Genomic Profiling of Tumors 5
- Section 18 MicroRNAs as Biomarkers
- Section 19 Signaling and Hormonal Inputs to Transcription Factor Regulation
- Section 20 Signaling and Therapy
- Section 21 Targets Affecting Metabolism
- Section 22 Tumor Suppressor Genes 2
- Section 45 Late-Breaking Research: Molecular and Cellular Biology / Genetics 3

**Clinical Research**
- Section 24 Diagnostic and Prognostic Biomarkers in Clinical Trials
- Section 25 Immunomodulatory Agents and Interventions 3
- Section 26 Liquid Biopsy 5
- Section 27 Liquid Biopsy 6
- Section 28 Therapeutic Antibodies, Including Engineered Antibodies 4
- Section 29 Vaccines 2

**Cancer Chemistry**
- Section 30 Emerging Proteomic Technologies for Cancer Research

**Immunology**
- Section 31 Emerging Tools and Models in Immuno-oncology Research
- Section 32 Immune Monitoring / Clinical Correlates
- Section 33 Neoantigens in Cancer
- Section 34 Oncogenes, Inflammation, and Cancer

**Experimental and Molecular Therapeutics**
- Section 35 Antibodies, Fusion Proteins, and Related Biologics
- Section 36 Canonical Targets 2
- Section 37 Combination Chemotherapy 2
- Section 38 Epigenetic and Metabolic Pathways in Mediating Therapeutic Resistance
- Section 39 Novel Targets and Therapeutics
- Section 40 Regulation of Gene Expression in Drug Resistance
- Section 41 Therapeutic Approaches Based on Gene Delivery and Vector System

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AACR ANNUAL MEETING 2018
SPECIAL SESSION • 10:00 a.m.–12:30 p.m.

Room N226, McCormick Place North (Level 2)
Pancreatic Cancer Action Network-AACR Grantee Discussion
(not eligible for CME credit)
Moderator: Giulio F. Draetta, Houston, TX
Deactivating the innate immune defense mechanism of pancreatic cancer. Kian-Huat Lim, St. Louis, MO
Targeting downstream effectors of KRAS via MEK and CDK-4 inhibition in PDAC. Nipun B. Merchant, Miami, FL
Use of PARP1 inhibitors to leverage a tumor-selective “kiss of death.” David A. Boothman, Dallas, TX
Clinical development of a tumor-penetrating peptide for enhanced pancreatic cancer therapy. Kazuki Sugahara, New York, NY

CAREER DISCUSSION • 10:15 a.m.–11:00 a.m.

AACRcentral Amphitheater, Hall A, McCormick Place South (Level 3)
Searching for the Right Postdoctoral Position, Organized by the Associate Member Council (AMC)
(not eligible for CME credit)

SCIENCE POLICY SESSION • 10:15 a.m.–12:00 p.m.

Room N427, McCormick Place North (Level 4)
Access to Health Care in the Era of Biologically Targeted Therapies
Chair: Sara A. Hurvitz, Santa Monica, CA
Introduction
Disparities in the use of targeted therapies for breast cancer. Katherine Reeder-Hayes, Chapel Hill, NC
Crossing the divide: Disparities in access to personalized medicine for lung cancer. Christopher S. Lathan, Boston, MA
Toward a more sustainable path for targeted cancer drugs. Justin Bekelman, Philadelphia, PA
WEDNESDAY, APRIL 18**

MAJOR SYMPOSIA • 10:15 a.m.–12:00 p.m.

Room S100 (Grand Ballroom), McCormick Place South (Level 1)
Combining Epigenetic and Immune Therapies

Chair: Stephen B. Baylin, Baltimore, MD

10:15 a.m. Introduction

10:20 a.m. Exploring the biology of T-cell exhaustion. Crystal L. Mackall, Stanford, CA

10:50 a.m. Epigenetic regulation of T-cell exhaustion: Implications for cancer immunotherapy. Benjamin A. Youngblood, Memphis, TN [SY07-02*]

11:20 a.m. Probing basic understanding for the potential for epigenetic therapy to enhance the efficacy of immune checkpoint therapy. Stephen B. Baylin, Baltimore, MD

N Hall B (Plenary Hall), McCormick Place North (Level 3)
High-Dimensional Analysis of Cancer Immunotherapy

Chair: Robert D. Schreiber, St. Louis, MO

10:15 a.m. Introduction

10:20 a.m. Pathology from the molecular scale on up. Garry P. Nolan, Stanford, CA

10:50 a.m. Is every tumor targetable? Antigen discovery for personalized cancer immunotherapy. Michal Bassani-Sternberg, Epalinges, Switzerland

11:20 a.m. High-dimensional analysis of immune checkpoint blockade-induced antitumor responses. Robert D. Schreiber, St. Louis, MO

Room S406 (Vista Ballroom), McCormick Place South (Level 4)
Innovations in T-cell Therapy

Chair: Michel Sadelain, New York, NY

10:15 a.m. Introduction

10:20 a.m. Targeting T-cell malignancies with gene-edited CAR-T. John F. Dipersio, St. Louis, MO

10:50 a.m. Armored CAR T cells: Overcoming the tumor microenvironment. Renier J. Brentjens, New York, NY

11:20 a.m. Engineering T cells to access brain cancers. Nabil Ahmed, Houston, TX

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

**Program as of March 20, 2018
Overcoming the Immunosuppressive Tumor Microenvironment for Improving Cancer Immunotherapy

Chair: George Coukos, Lausanne, Switzerland

10:15 a.m. Introduction
10:20 a.m. Metabolic impact on immune cell subsets in the tumor microenvironment and its therapeutic relevance. Weiping Zou, Ann Arbor, MI [SY17-01*]
10:50 a.m. Metabolic interventions for unleashing host antitumor immunity and inflaming cold tumors. Ping-Chih Ho, Epalinges, Switzerland
11:20 a.m. Orchestration of antitumor immune response: Lessons from ovarian cancer. George Coukos, Lausanne, Switzerland

RNA Modifications in Cancer

Chair: Reuven Agami, Amsterdam, Netherlands

10:15 a.m. Introduction
10:20 a.m. Coordinated gene expression mediated by RNA modifications. Reuven Agami, Amsterdam, Netherlands [SY43-01*]
10:50 a.m. RNA modifications and cell identity: The importance of forgetting the past to embrace the future. Pedro J. Batista, Bethesda, MD [SY43-02*]
11:20 a.m. RNA methylation in cancer progression. Chuan He, Chicago, IL

RECENT ADVANCES IN DIAGNOSTICS AND THERAPEUTICS RESEARCH • 10:15 a.m.–12:00 p.m.

FGFR Signaling in Cancer

Chair: Steffi Oesterreich, Pittsburgh, PA

10:15 a.m. FGFR-mediated tumor-stromal interactions during breast cancer growth and progression. Kathryn L. Schwertfeger, Minneapolis, MN
10:45 a.m. FGFR4—a new druggable target in endocrine resistant breast cancer. Steffi Oesterreich, Pittsburgh, PA
11:15 a.m. Targeting FGFR in hepatobiliary cancers. Andrew X. Zhu, 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).
Room N227, McCormick Place North (Level 2)

**Molecular Prostate Imaging with PSMA and Targeted Agents**

**Chair:** Peter Choyke, Bethesda, MD

10:15 a.m.  **Overview of molecular imaging of prostate cancer.** Erik Mittra, Portland, OR

10:45 a.m.  **Molecular prostate imaging with PSMA and targeted agents.** Frederik Giesel, Arnold, Germany

11:15 a.m.  **Multimodality prostate cancer imaging: Integrating diagnostic information.** Peter Choyke, Bethesda, MD

Room W196, McCormick Place West (Level 1)

**Recent Advances of Single-Cell Genomics in Cancer Research**

**Chair:** Sohrab Shah, Vancouver, BC, Canada

10:15 a.m.  **Single-cell epigenomics reveal the epigenetic evolution and lineage histories of chronic lymphocytic leukemia.** Daniel Landau, New York, NY

10:40 a.m.  **Genomic and transcriptomic analysis reveals incremental disruption of key signaling pathways during melanoma evolution.** A. Hunter Shain, San Francisco, CA [NG07*]

11:00 a.m.  **Exploiting single-cell approaches to define the evolving tumor microenvironment.** Jacqui Shields, Cambridge, United Kingdom

11:25 a.m.  **Scalable single-cell whole-genome sequencing: Towards population genetics of cancer.** Sohrab Shah, Vancouver, BC, Canada

Room N228, McCormick Place North (Level 2)

**Tumor, Blood, and Germline Biomarkers of the Radiation Response**

**Chair:** Joanne B. Weidhaas, Los Angeles, CA

10:15 a.m.  **Recombination Proficiency Score (RPS) provides prognostic information and predicts sensitivity to treatment.** Philip Connell, Chicago, IL

10:45 a.m.  **Genomics-based biomarkers for personalizing treatment of patients receiving radiotherapy.** Maximilian Diehn, Stanford, CA

11:15 a.m.  **Defining the radiation “response” using germline microRNA-based biomarkers.** Joanne B. Weidhaas, Los Angeles, 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).

**Program as of March 20, 2018**
Room S102, McCormick Place South (Level 1)

**Using Mass Cytometry and MIBI to Monitor Patient Response**

**Chair:** Jonathan M. Irish, Nashville, TN

10:15 a.m.  Single cell mass cytometry reveals clinically and biologically distinct cells in human solid tumors. Jonathan M. Irish, Nashville, TN

10:45 a.m.  Understanding coordination of antitumor immune responses using quantitative single-cell models. Matthew Spitzer, Stanford, CA

11:15 a.m.  Using mass cytometry to determine cellular mechanisms of combination checkpoint blockade. Spencer C. Wei, Houston, TX

**RECENT ADVANCES IN PREVENTION AND INTERCEPTION RESEARCH** • 10:15 a.m.–12:00 p.m.

Room W190, McCormick Place West (Level 1)

**Precision Prevention and Early Detection of Cancer**

**Chair:** Timothy R. Rebbeck, Boston, MA

10:15 a.m.  Genomic approaches for cancer interception. Avrum E. Spira, Boston, MA

10:40 a.m.  Early-phase precision prevention clinical trials. Eva Szabo, Potomac, MD

11:05 a.m.  Vaccines targeting oncogenic proteins for cancer prevention. Mary L. Disis, Seattle, WA

11:30 a.m.  The clinico-genomics of localized, non-indolent prostate cancer: The CPC-GENE experience. Michael E. Fraser, Toronto, ON, Canada [NG06*]

Room S105, McCormick Place South (Level 1)

**Systemic Metabolism and Cancer**

**Chair:** Navdeep S. Chandel, Chicago, IL

10:15 a.m.  Dissecting the role of physiologic and metabolic factors in lung cancer. Thales Papagiannakopoulos, New York, NY

10:45 a.m.  Repurposing metformin as a metabolically targeted ovarian cancer treatment. Iris Romero, Chicago, IL

11:15 a.m.  The role of microbiome-derived metabolism in cancer prevention and therapy. Scott Bultman, Chapel Hill, NC

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).
PLENARY SESSION • 12:15 p.m.–1:45 p.m.

N Hall B (Plenary Hall), McCormick Place North (Level 3)
Annual Meeting 2018 Highlights: Vision for the Future

Chair: Elaine R. Mardis, Columbus, OH

Basic cancer science and the impact of technology. Elaine R. Mardis, Columbus, OH
Prevention and survivorship/precision prevention and interception. Speaker to be announced
Clinical trials and therapeutics. Michael A. Caligiuri, Duarte, CA
Wrap-up and vision for the future. Elizabeth M. Jaffee, Baltimore, MD

**Program as of March 20, 2018**
The AACR is proud to offer Scholar-in-Training Awards to enable the participation of meritorious early-career scientists at the Annual Meeting 2018. Since its inception in 1986, the AACR Annual Meeting Scholar-in-Training Award program has provided more than 4,500 grants to young investigators and has received support from more than 55 cancer research foundations, corporations, individuals, and other organizations dedicated to the fight against cancer. This year, 20 organizations or individuals generously provided the funding to support this program.

The names and affiliations of the 2018 Scholar-in-Training Award recipients, along with their abstract numbers and titles, are listed below.

2018 AACR Scholar-in-Training Awards

AACR has graciously both donated and distributed funds received to support early-career investigators who will be presenting meritorious abstracts at the AACR Annual Meeting 2018.

Brian J. Abraham, PhD, MIT Whitehead Institute for Biomedical Research, Cambridge, MA. Abstract 971. Three-dimensional gene regulatory landscapes in normal and cancer cells.

Mustafa M. Basree, MS, Kentucky College of Osteopathic Medicine, Pikeville, KY. Abstract 2242. Breastfeeding protects against pro-tumorigenic changes in the mammary gland by limiting epithelial luminal progenitor cell expansion.


Valerio Embrione, MS, The Ohio State University, Columbus, OH. Abstract 476. A human scFv as a tool to understand the biogenesis of a subset of oncogenic microRNAs.

Merit L. Goodman, BS, University of Kansas Medical Center, Kansas City, KS. Abstract 1800. Progesterone receptor attenuates STAT1-mediated interferon signaling in breast cancer.

Robert Gueth, PhD, New Mexico State University, Las Cruces, NM; California State University, Northridge, CA. Abstract 4998. Targeting DHPS to abrogate TGFβ-induced metastasis in breast cancer.

Peter C. Hart, PhD, University of Chicago, Chicago, IL. Abstract 5474. Activity of the SIP pathway promotes ovarian cancer and serves as a novel metabolic target of metformin.

Sisi He, MS, University of Illinois Urbana-Champaign, Champaign, IL. Abstract 199. Host CYP27A1 expression is essential for ovarian cancer progression.


Lauren Jin Suk Joo, BS, Kolling Institute of Medical Research, The University of Sydney, St. Leonards, NSW, Australia. Abstract 501. A RET-related microRNA, miR-153-3p, acts as a tumor suppressor in medullary thyroid carcinoma (MTC) via S6K signaling.
TRAVEL AWARDS

Aaron B. Koenig, MS, The Ohio State University College of Medicine, Columbus, OH. Abstract 5400. A comprehensive analysis of the interactome of miR-21, an established oncomir, by Argonaute-CLIP analysis identifies novel conserved and species-specific targets of miR-21 in human liver and hepatocellular carcinoma.


Kah Suan Lim, PhD, Dana-Farber Cancer Institute, Boston, MA. Abstract 333. USP1 is required for replication fork stability in BRCA1-deficient tumors.

Evan C. Markegard, BS, UCSF Helen Diller Family Comprehensive Cancer Center, San Francisco, CA. Abstract 5520. Oncogenic RTK signaling inhibits Spred1/NF1 to sustain constitutive Ras/MAPK signaling.

Kevin C. Miller, BS, Mayo Clinic, Rochester, MN. Abstract 3909. HDAC inhibition in combination with MEK or BCL-2 inhibition as novel therapeutic strategies in multiple myeloma.

Stephen Mok, PhD, The University of Texas MD Anderson Cancer Center, Houston, TX. Abstract 2984. Effects of anti-CTLA-4 and anti-PD-1 on memory T-cell differentiation and resistance to tumor relapse.


Tarek H. Mouhieddine, MD, Dana-Farber Cancer Institute, Boston, MA. Abstract 2954. Immunomodulator maintenance post autologous stem cell transplant predicts better outcome in multiple myeloma patients with clonal hematopoiesis of indeterminate potential.

Nethaji Muniraj, PhD, Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD. Abstract 1335. Withaferin A induces nonprotective autophagy in a STK11-independent manner and mediates breast cancer inhibition via energetic impairment.

Yashar S. Niknafs, PhD, University of Michigan, Ann Arbor, MI. Abstract 4982. Oncogenic role of THOR, a conserved cancer/testis long noncoding RNA.

Mellissa J. Nixon, PhD, Vanderbilt University, Nashville, TN. Abstract 2982. Somatic TP53 mutations alter the immune microenvironment after chemotherapy in breast cancer.

Hitoshi Ohtani, PhD, Van Andel Research Institute, Grand Rapids, MI. Abstract 2993. A switch in epigenetic silencing mechanisms of endogenous retroviruses during human genome evolution.

Ethel R. Pereira, PhD, Massachusetts General Hospital/Harvard Medical School, Boston, MA. Abstract 3022. Lymph node metastasis in solid tumors: A marker or driver of disease progression?
Manali S. Phadke, PhD, Moffitt Cancer Center, Tampa, FL. **Abstract 3973.** Dabrafenib suppresses the growth of BRAF-WT cancers through inhibition of novel targets Nek9 and Cdk16.

Evanthia T. Roussos Torres, MD, PhD, Johns Hopkins University, Baltimore, MD. **Abstract 4965.** Entinostat transforms the suppressive tumor microenvironment of breast cancer and promotes survival and anti-responses when combined with checkpoint inhibition.

Madhav Sankunny, PhD, Cleveland Clinic Foundation, Cleveland, OH. **Abstract 317.** Role of KLLN in DNA damage-induced apoptosis is associated with the regulation of p53 phosphorylation and acetylation in breast cancer cells.

Steven D. Scoville, PhD, The Ohio State University, Columbus, OH. **Abstract 4729.** The aryl hydrocarbon receptor directly regulates microRNA-29b to inhibit human natural killer cell development and function in acute myeloid leukemia.

Xiang Shu, PhD, Vanderbilt University Medical Center, Nashville, TN. **Abstract 3222.** Evaluation of associations between circulating proteins and breast cancer risk using genetic variants.

Vindhya Vijay, MS, University of Florida, Gainesville, FL. **Abstract 4955.** Heterogeneous nuclear ribonucleoprotein C as a novel therapeutic target for acute myeloid leukemia.

2018 AACR- American Brain Tumor Association Scholar-in-Training Awards

The American Brain Tumor Association has graciously donated funds to support young investigators who will be presenting high-quality abstracts in brain cancer research for both primary and secondary (metastatic) brain tumors at the AACR Annual Meeting 2018.

Damian A. Almiron Bonnin, BA, Geisel School of Medicine at Dartmouth, Hanover, NH. **Abstract 141.** HEY1-mediated inhibition of glioma stem cell proliferation is associated with restoration of glioma stem cell division asymmetry and transcriptional repression of PDGFRA.

Samirkumar B. Amin, MBBS, PhD, The Jackson Laboratory for Genomic Medicine, Farmington, CT. **Abstract 1176.** Genomic profiling of canine glioma: Comparative analyses with respect to drivers of human glioma.

Peiwen Chen, PhD, The University of Texas MD Anderson Cancer Center, Houston, TX. **Abstract 117.** Lysyl oxidase secreted by PTEN-deficient glioblastoma cells recruits macrophages and promotes malignant growth.

Islam Hassan, MD, The University of Texas MD Anderson Cancer Center, Houston, TX. **Abstract 2955.** A radiomic-based MRI phenotype is uniquely associated with hypermutated genotype in gliomas.

Mohammad Belayat Hossain, PhD, The University of Texas MD Anderson Cancer Center, Houston, TX. **Abstract 3205.** Histone tyrosine phosphorylation determines glioblastoma cell survival.
TRAVEL AWARDS


2018 AACR-Aflac, Inc. Scholar-in-Training Awards

Support for AACR Scholar-in-Training Awards is part of Aflac’s generous support of activities for early-career scientists within the AACR. These awards support early-career investigators who will be presenting meritorious abstracts at the AACR Annual Meeting 2018.

Vrushank Dharmesh Bhatt, MS, Rutgers University, New Brunswick, NJ. Abstract 4969. Autophagy modulates lipid metabolism to support liver kinase B1 (LKB1)-deficient lung tumor growth.

Alisson Clemenceau, MS, Institut universitaire de cardiologie et de pneumologie de Québec, Québec, QC, Canada. Abstract 2351. Transcriptome-wide association study reveals candidate causal genes for lung cancer.

Rosario I. Corona, PhD, Cedars-Sinai Medical Center, Los Angeles, CA. Abstract 395. Identifying the functional drivers of noncoding somatic mutations in ovarian cancer.

Prasenjit Dey, PhD, The University of Texas MD Anderson Cancer Center, Houston, TX. Abstract 777. Malic enzyme 3 as a collateral lethality target in pancreatic cancer.

Adam M. Farkas, PhD, Tisch Cancer Institute at the Icahn School of Medicine at Mount Sinai, New York, NY. Abstract 4745. Tim-3 and TIGIT mark NK and T cells susceptible to effector dysfunction in human bladder cancer.

Paul Geeleher, PhD, University of Chicago, Chicago, IL. Abstract 4271. Most expression quantitative trait loci discovered in tumors cannot be attributed to cancer cells.

Alissa D. Guarnaccia, BS, Vanderbilt University, Nashville, TN. Abstract 972. Defining the molecular context of MYC and WDR5 at chromatin.


Jianguo Huang, PhD, Duke University Medical Center, Durham, NC. Abstract 516. Long noncoding RNA NEAT1 promotes lung metastasis of soft tissue sarcoma.

Sunil Kumar Joshi, BA, Knight Cancer Institute, Oregon Health & Science University (OHSU), Portland, OR. Abstract 970. Transforming NTRK2 and NTRK3 mutations as potential drivers of leukemia.

Xianzhi Lin, PhD, Cedars-Sinai Medical Center, Los Angeles, CA. Abstract 514. Lncrna uca1 interacts directly with angiomotin to activate Hippo-YAP signaling in epithelial ovarian cancer.


Megan Ludwig, BS, University of Michigan, Ann Arbor, MI. Abstract 964. Genome-wide CRISPR screen identifies potential therapeutic combination of EGFR and FGFR inhibitors in oral cancer.
Disha Malani, MS. Institute for Molecular Medicine Finland, Helsinki, Finland. Abstract 3899. Discovery and clinical implementation of individualized therapies in acute myeloid leukemia based on ex vivo drug sensitivity testing and multi-omics profiling.

Neelam Mukherjee, PhD. The University of Texas Health Science Center at San Antonio, San Antonio, TX. Abstract 3792. Intratumoral CD56bright natural killer cells are associated with improved survival in bladder cancer.

Aritro Nath, PhD. University of Minnesota, Minneapolis, MN. Abstract 3897. Pharmacogenomic landscape of long noncoding RNAs in human cancers.

Caitlin A. Nichols, BS. Dana-Farber Cancer Institute, Boston, MA. Abstract 3003. Loss of heterozygosity of essential genes represents a novel class of cancer vulnerabilities.

Thao Nguyen D. Pham, PhD. Northwestern University, Chicago, IL. Abstract 2989. BET inhibitors induce Rac1-dependent MNK and eIF4E phosphorylation in cancer cells.


Vaishnavi Sambandam, PhD. The University of Texas MD Anderson Cancer Center, Houston, TX. Abstract 2977. PI3K/mTOR pathway inhibition induces Aurora B mediated cell death in NOTCH1 mutant head and neck squamous (HNSCC) cells.

Ronald F. Siebenaler, BS. University of Michigan, Ann Arbor, MI. Abstract 4370. Regulation of AGO2-KRAS interaction through epidermal growth factor receptor.

Guan-Yu Xiao, PhD. UT Southwestern Medical Center, Dallas, TX. Abstract 966. Oncogenic signaling pathways differentially regulate clathrin-mediated endocytosis in cancer cells.

Hanghang Zhang, PhD. Fels Institute for Cancer Research, Temple University School of Medicine, Philadelphia, PA. Abstract 2952. Targeting CDK9 reactivates epigenetically silenced genes in cancer.

Xiaowen Zhang, PhD. UT Health Science Center at San Antonio, San Antonio, TX. Abstract 2990. Attenuation of RNA polymerase II pausing mitigates BRCA1-associated R-loop accumulation and tumorigenesis.

Yiqing Zhao, PhD. Case Western Reserve University, Cleveland, OH. Abstract 2379. PTPRT pseudo-phosphatase domain is a denitrase that contributes to its tumor suppressor function.


2018 AACR Scholar-in-Training Award in Memory of Nina Becka

Funds have been graciously donated in memory of Nina Becka to the AACR to support an early-career investigator who will be presenting a meritorious abstract on Ewing’s sarcoma research at the AACR Annual Meeting 2018.

Lillian M. Guenther, MD. Dana-Farber Cancer Institute, Boston, MA. Abstract 1629. Targeting resistance mechanisms to CDK4/6 inhibitors in Ewing sarcoma with an IGF1R inhibitor drug combination strategy.
TRAVEL AWARDS

2018 AACR-June L. Biedler Scholar-in-Training Awards

These awards are presented to authors of meritorious abstracts in the field of drug resistance to be presented at the AACR Annual Meeting 2018. These awards are made possible through the Estate of Dr. June L. Biedler to increase public understanding of basic cancer research. The late Dr. Biedler was a dedicated member of AACR and a distinguished scientist at Memorial Sloan Kettering Cancer Center. Dr. Biedler believed that science communication is a cornerstone to the acceleration of progress.

Gloria V. Echeverria, PhD, The University of Texas MD Anderson Cancer Center, Houston, TX. Abstract 212. High-resolution barcoding in patient-derived xenografts of triple-negative breast cancer reveals reversible chemoresistance conferred by nonmutational mechanisms.

Haichuan Hu, MD, PhD, Massachusetts General Hospital Cancer Center, Charlestown, MA. Abstract 4954. Decoding tumor microenvironment to enhance NSCLC targeted therapy.

Shih-Bo Huang, MS, University of Texas Health San Antonio, San Antonio, TX. Abstract 945. Novel role for SIRT1 in noncanonical activation of AR signaling.

Robert D. Leone, MD, Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD. Abstract 4963. Targeting glutamine metabolism as a means of enhancing antitumor T-cell responses.

Kelly G. Paulson, MD, PhD, Fred Hutchinson Cancer Research Center, Seattle, WA. Abstract 2980. Single-cell RNA sequencing reveals AML immunoediting under pressure from engineered T-cell therapy.

Chao Zhang, MS, The Moffitt Cancer Center & Research Institute, and The College of Medicine, University of South Florida, Tampa, FL. Abstract 3025. Ligand-independent EphA2 signaling drives an amoeboid phenotype that promotes melanoma brain metastasis development.

2018 AACR-Bristol-Myers Squibb Oncology Scholar-in-Training Awards

Bristol-Myers Squibb Oncology has graciously donated funds to support early-career investigators who will be presenting meritorious abstracts at the AACR Annual Meeting 2018.

Nicolás Anselmino, BS, University of Buenos Aires, CABA, Argentina. Abstract 4180. Game-changing restraint of Ros-damaged phenylalanine, upon tumor metastasis.

Huai-Chin Chiang, PhD, UT Health Science Center at San Antonio, San Antonio, TX. Abstract 4460. BRCA1-associated R-loop accumulation at noncoding putative ERα enhancer area regulates expression of adjacent genes.

Md Kamrul Hasan, PhD, Moores Cancer Center, University of California San Diego, San Diego, CA. Abstract 3492. Wnt5a induces ROR1 to associate with DOCK1 and promote growth of breast cancer cells.

Venkatesh Kolluru, PhD. University of Louisville, Louisville, KY. Abstract 1328. Cadmium-induced endoplasmic reticulum stress causes defective autophagy in human prostate carcinogenesis.

Merrin Man Long Leong, MS. The University of Hong Kong, Hong Kong. Abstract 5521. Functional characterization of a candidate tumor suppressor gene, Mirror image polydactyly 1, in nasopharyngeal carcinoma.

Liqian Ma, BS. University of Illinois at Urbana-Champaign, Urbana, IL. Abstract 2133. Mechanisms by which 27-hydroxycholesterol promotes breast cancer metastasis.


Jennifer M. Rosenbluth, MD, PhD. Harvard Medical School, Boston, MA. Abstract 989. Organoid cultures from normal and cancer-prone human breast tissues preserve complex epithelial lineages and can form chimeric mammary glands in vivo.

Brandi P. Smith, MS. University of Illinois at Urbana-Champaign, Champaign, IL. Abstract 3012. Urban neighborhood and residential factors associated with breast cancer in African American women: A systematic review.

Na-Young Song, PhD. NCI-Frederick, Frederick, MD. Abstract 5008. Crosstalk between epithelial-IKKα-deletion and symbiotic bacterial-fungal infection in skin carcinogenesis.

Katie A. Thies, PhD. Medical University of South Carolina, Charleston, SC. Abstract 49. Stromal platelet derived growth factor receptor (PDGFRβ) signaling: A novel therapeutic target for breast cancer brain metastasis (BCBM).

Alex H. Wagner, PhD. Washington University in St. Louis, St. Louis, MO. Abstract 3282. Standardization and coordination of variant interpretation knowledgebases improves clinical genome actionability.


2018 AACR Scholar-in-Training Awards in Memory of Cecelia Cantalupi

Funds have been graciously donated in memory of Cecelia Cantalupi to the AACR to support early-career investigators who will be presenting meritorious abstracts on lung cancer research at the AACR Annual Meeting 2018.

Runzhe Chen, MD. The University of Texas MD Anderson Cancer Center, Houston, TX. Abstract 4686. T-cell repertoire evolution from the normal lung to invasive lung adenocarcinoma.

Loukia G. Karacosta, PhD. Stanford University, Stanford, CA. Abstract 4997. Identifying dynamic EMT states and constructing a proteomic EMT landscape of lung cancer using single-cell multidimensional analysis.
TRAVEL AWARDS

2018 AACR Margaret Foti Scholar-in-Training Awards in Pediatric Cancer Research

Through a generous gift of the Margaret Foti Foundation, these awards recognize outstanding young investigators for their meritorious work in pediatric cancer research and support their attendance to the AACR Annual Meeting 2018.


Maggie H. Chasse, MS, Van Andel Institute, Grand Rapids, MI. Abstract 4634. Mithramycin amplifies the imbalance between the BAF and PRC2 complexes to drive apoptosis in rhabdoid tumor.

Catherine Drummond, PhD, St. Jude Children’s Research Hospital, Memphis, TN. Abstract 3014. Location specificity in fusion-negative rhabdomyosarcoma driven by cell of origin.


Yu Liu, PhD, St. Jude Children’s Research Hospital, Memphis, TN. Abstract 1287. Exploring somatic DNA structural alteration and aberrant genomic interactions in cancer through GenomePaint.

Palaniraja Thandapani, PhD, New York University School of Medicine, New York, NY. Abstract 2998. Dynamic 3d chromosomal landscapes in acute leukemia.

2018 AACR-Gerald B. Grindey Memorial Scholar-in-Training Award

This award is presented to the author of a meritorious abstract in the field of preclinical science presented at the AACR Annual Meeting 2018. The late Dr. Grindey was a dedicated member of the AACR and a distinguished scientist at Eli Lilly and Company. The Gerald B. Grindey Memorial Fund was established in his honor and has been entrusted to the AACR to be used toward educational programs for early-career scientists engaged in preclinical cancer research.

Jennifer E. Howes, PhD, Vanderbilt University, Nashville, TN. Abstract 865. Small molecule-mediated modulation of Ras elicits inhibition of phospho ERK signaling through negative feedback on SOS1.

2018 AACR-Get Your Rear in Gear Philadelphia Scholar in Training Awards supported by the Colon Cancer Coalition

Get Your Rear in Gear Philadelphia has graciously donated funds to the AACR to support early-career investigators who will be presenting meritorious abstracts on colorectal cancer research at the AACR Annual Meeting 2018.

Ann-Marie Baker, PhD, Barts Cancer Institute, Queen Mary University of London, London, United Kingdom. Abstract 5368. The evolutionary history of human colitis-associated colorectal cancer.

Rochelle E. Fletcher, BA. University of Pittsburgh School of Medicine, Pittsburgh, PA. **Abstract 267.** Nonsteroidal anti-inflammatory drugs induce ER stress- and BID-dependent immunogenic cell death to suppress colorectal tumorigenesis.

Antja-Voy Hartley, BS, Indiana University School of Medicine, Indianapolis, IN. **Abstract 3346.** PRMT5-mediated methylation of YBX1 regulates NF-kB activity in colorectal cancer.

Andreana N. Holowatyj, PhD, Huntsman Cancer Institute, University of Utah, Salt Lake City, UT. **Abstract 5249.** Crosstalk between visceral adipose and tumor tissue in colorectal cancer patients: Molecular signals driving host-tumor interaction.

Amriti R. Lulla, PhD, Fox Chase Cancer Center, Philadelphia, PA. **Abstract 3908.** miR-3132 induces TRAIL and cell death in mutant p53-expressing cancer cells.

Kazuhito Sato, MD, PhD. The University of Tokyo, Tokyo, Japan. **Abstract 3394.** Actionable fusion kinases in microsatellite instability-high colorectal cancers.

Li Xia, PhD. Stanford University, Stanford, CA. **Abstract 4334.** Linked read whole-genome sequencing reveals pervasive chromosomal level instability and novel rearrangements in brain metastases from colorectal cancer.

**2018 AACR Scholar-in-Training Awards in Memory of William Maness**

The Estate of William Maness has graciously donated funds in his memory to the AACR to support early-career investigators who will be presenting meritorious abstracts on melanoma research at the AACR Annual Meeting 2018.

Julien Ablain, PhD, Boston Children’s Hospital, Boston, MA. **Abstract 93.** Tissue-specific CRISPR in zebrafish identifies PVRL1 as a novel metastasis suppressor gene in melanoma.

Emily Z. Keung, MD, The University of Texas MD Anderson Cancer Center, Houston, TX. **Abstract 5711.** The impact of combination oral azacitidine (CC-486) + pembrolizumab (PEMBRO) on the immune infiltrate in metastatic melanoma (MM).

Bradley D. Shields, BS, University of Arkansas for Medical Sciences, Little Rock, AR. **Abstract 2037.** E-cadherin enhances immune control of metastatic melanoma.

David M. Woods, PhD, NYU Langone Health, New York, NY. **Abstract 612.** Nivolumab-induced changes associated with patient outcomes are disparate in metastatic melanoma patient Tregs versus conventional T cells.

Hanlin Zeng, PhD, Helen Diller Family Comprehensive Cancer Center, University of California San Francisco, San Francisco, CA. **Abstract 5518.** Bi-allelic loss of CDKN2A initiates melanoma invasion and metastasis via E2F1-BRN2 axis.
TRAVEL AWARDS

2018 AACR-MEG Scholar-in-Training Awards

These awards are for authors of meritorious abstracts in molecular epidemiology who will be presenting at the AACR Annual Meeting 2018, supported by the Molecular Epidemiology Working Group (MEG) of the AACR. The mission of MEG is to increase knowledge about cancer and chronic disease etiology, thereby promoting the prevention and treatment of cancer, and the improvement of public health. In addition to travel support, award recipients receive a free one-year membership to the Working Group.


**Lang Wu, PhD**, Vanderbilt University School of Medicine, Nashville, TN. Abstract 2969. Genetically predicted blood protein biomarkers and prostate cancer risk: An analysis in over 140,000 European descendants.

2018 AACR-Prostate Cancer Foundation Scholar-in-Training Awards

The Prostate Cancer Foundation has graciously donated funds to the AACR to support early-career investigators who will be presenting meritorious abstracts on advanced prostate cancer at the AACR Annual Meeting 2018.

**Mark P. Labrecque, PhD**, University of Washington, Seattle, WA. Abstract 1092. Defining the molecular phenotypes of metastatic castration-resistant prostate cancer sensitive to FGF pathway inhibition.

**Michelle K. Naidoo, BA**, Hunter College and The Graduate Center of the City University of New York, New York, NY. Abstract 503. MicroRNA-1205 as a tumor suppressor in castration-resistant prostate cancer.

**Abhijit Parolia, BS**, University of Michigan, Ann Arbor, MI. Abstract 975. Functional CRISPR screen towards identifying novel epigenetic co-factors of oncogenic AR activity.

2018 AACR-Pezcoller Foundation Scholar-in-Training Awards

The Pezcoller Foundation supports these awards to enhance participation in the programs and activities of the AACR by early-career investigators residing in Europe and to provide these outstanding Scholar-in-Training Awardees with an opportunity to share their research findings with the international cancer research community at the AACR Annual Meeting.


**Priya Chudasama, PhD**, German Cancer Research Center, Heidelberg, Germany. Abstract 4336. Integrative genomic and transcriptomic analysis of leiomyosarcoma.


2018 AACR-SIC Scholar-in-Training Awards

The AACR-SIC Scholar-in-Training Awards are a partnership between the AACR and the Società Italiana di Cancerologia (SIC, the Italian Cancer Society). The AACR and SIC sponsor these awards to enhance participation by early-career investigators who are members of SIC, and to provide these outstanding Scholar-in-Training Awardees with an opportunity to share their research findings with the international cancer research community at the AACR Annual Meeting.

Francesca Bizzaro, MS. IRCCS-Mario Negri Institute for Pharmacological Research, Milan, Italy. Abstract 2816. Patient-derived ovarian cancer xenograft (OC-PDX) to study the response of the PARP inhibitor olaparib.

Carmine Carbone, PhD. University of Verona, Verona, Italy. Abstract 3501. Adipocytes sustain pancreatic cancer progression through a noncanonical WNT paracrine network inducing ROR2 nuclear shuttling.

Montserrat Climent Salarich, PhD. Italian Institute of Technology, Genova, Italy. Abstract 4410. miRNA-34a sensitizes triple-negative breast cancer cells to paclitaxel reducing cancer stem cell population and lung colonization.

Alessandra De Feo, PhD. Rizzoli Orthopaedic Institute, Bologna, Italy. Abstract 3549. Exosome-mediated transfer of sh-CD99 is sufficient to modulate cell differentiation in Ewing sarcoma.

Marta Di Martile, PhD. IRCCS Regina Elena National Cancer Institute, Rome, Italy. Abstract 5. The histone acetyltransferase inhibitor CPTH6 impairs tumor angiogenesis acting on both endothelial and cancer cells.

Sara Pagotto, PhD. G. d’Annunzio University, Chieti-Pescara, Italy. Abstract 3313. Epigenetic biomarkers of prognosis in stage IIA colon cancer.

Geny Piro, PhD. University of Verona, Verona, Italy. Abstract 973. MEKK3 sustains EMT and stemness in pancreatic cancer by regulating YAP and TAZ transcriptional activity.

Ilenia Segatto, PhD. CRO of Aviano, National Cancer Institute, Aviano, Pordenone, Italy. Abstract 1460. Stathmin regulates mammary gland morphogenesis and tumorigenesis.
TRAVEL AWARDS

2018 AACR Scholar-in-Training Award supported by the Barb Tullio Run Against Lung Cancer

Funds have been graciously donated from the organizers of the Barb Tullio Run Against Lung Cancer to the AACR to recognize an outstanding young investigator for meritorious work in lung cancer research and to support attendance to the AACR Annual Meeting 2018.

Masanori Fujii, MD, PhD, Beth Israel Deaconess Medical Center, Boston, MA. Abstract 5440. Role of tyrosine phosphorylation of β-catenin in EGFR-mutant lung cancer.

2018 AACR-Warner Fund Scholar-in-Training Awards

The Warner Fund has graciously donated funds to the AACR to support early-career investigators who will be presenting meritorious work relating to cholangiocarcinoma.

Akiyoshi Kasuga, MD, Keio University, School of Medicine, Tokyo, Japan. Abstract 4083. Intrahepatic cholangiocarcinoma and gallbladder carcinoma mouse model based on transplantation of syngeneic tumor-initiating cells.


Khalid Saeed, MS, University of Helsinki, Helsinki, Finland. Abstract 2199. Establishment and high-throughput drug testing of multiple patient-derived cells from each renal cancer; intratumor heterogeneity of drug response and implications for precision medicine.

2018 AACR Scholar-in-Training Award in Memory of Dr. Richard L. Welsh

Gifts made in memory of Dr. Richard L. Welsh have been graciously donated to support a young investigator presenting a high-quality abstract in renal cancer at the AACR Annual Meeting 2018.

Khalid Saeed, MS, University of Helsinki, Helsinki, Finland. Abstract 2199. Establishment and high-throughput drug testing of multiple patient-derived cells from each renal cancer; intratumor heterogeneity of drug response and implications for precision medicine.

2018 AACR Scholar-in-Training Award in Honor of Cathy Whalen

Gifts made in honor and support of Cathy Whalen have been graciously donated to support a young investigator presenting a high-quality abstract in bile duct cancer at the AACR Annual Meeting 2018.

Sunyoung S. Lee, MD, PhD, Roswell Park Comprehensive Cancer Institute, Buffalo, NY. Abstract 2095. Automated mapping and analysis of stromal cells in tumor microenvironment in pancreatic adenocarcinoma and cholangiocarcinoma using deep learning.
2018 AACR MINORITY AND MINORITY-SERVING INSTITUTION FACULTY SCHOLARS IN CANCER RESEARCH

The AACR is very pleased to administer this important program, which provides funds for the participation of full-time minority faculty members and faculty members of Minority-Serving Institutions (MSI) at the AACR Annual Meeting 2018. Recipients of this award are scientists who are working at the level of Assistant Professor or above who are engaged in meritorious basic, clinical, or translational cancer research.

Since its inception in 1997, this award program has been supported by a generous grant provided by the National Cancer Institute’s Center to Reduce Cancer Health Disparities. The Center to Reduce Cancer Health Disparities (CRCHD) works to increase the number of underrepresented minorities participating as competitive NCI/NIH-funded cancer researchers. The Board of Directors of the AACR expresses its appreciation to the CRCHD for its long-term and generous support faculty members and congratulates these outstanding Scholars.

The names and affiliations of the 2018 Minority and Minority-Serving Institution Faculty Scholars are listed below, along with the numbers and titles of their presentations.

Benedict Anchang, PhD, Instructor, Stanford University, Stanford, CA. Abstract 2275. Individualized drug combination based on single-cell drug perturbations.

Alberto J. Caban-Martinez, PhD, Assistant Professor, University of Miami, Miller School of Medicine, Miami, FL. Abstract 4249. Disparities in cancer screening between Latino and non-Latino firefighters: Evidence from the Sylvester Firefighter Cancer Initiative.

Sue Anne Chew, PhD, Assistant Professor, University of Texas Rio Grande Valley, Brownsville, TX. Abstract 3719. Fabrication of chemotherapy drug temozolomide-loaded poly(lactic-co-glycolic acid) microparticles by electrospraying for the treatment of glioma.

Jayanta K. Das, PhD, Research Assistant Professor, Florida International University, Miami, FL. Abstract 1128. Exosomal ID3 is pro-metastatic through guiding NRF1-induced breast cancer stem cells across the blood-brain barrier.

Claudia M. Davis, PhD, Associate Professor and Faculty Fellow, California State University, San Bernardino, San Bernardino, CA. Abstract 606A. Biologic predictors and the impact of cancer among African American women.

Michelle R. Dawson, PhD, Assistant Professor, Brown University, Providence, RI. Abstract 1315. Biophysics of polyploidial cancer cells in an aging stroma.

Alejandra De Angulo, PhD, Research Fellow, University of Texas at Austin, Austin, TX. Abstract 61. Obesity-induced T-cell senescence contributes to prostate cancer progression.

Ana M. Gamero, PhD, Associate Professor, Temple University, Philadelphia, PA. Abstract 3157. p53 inactivation and STAT2 cooperate to enhance migration and metastasis of colon tumor cells.

Filipa G. Godoy-Vitorino, PhD, Assistant Professor, Inter American University of Puerto Rico, San Juan, PR. Abstract 3267. Cervical microbiota and the urinary metabolome in patients with high-risk and low-risk HPV infections.
Sonia L. Hernandez, PhD, Research Assistant Professor, The University of Chicago, Chicago, IL. Abstract 2055. Staphylococcus aureus alpha toxin activates Notch in endothelial cells.

Yoannis Imbert-Fernandez, PhD, Assistant Professor, University of Louisville, Louisville, KY. Abstract 2305. Targeting 6-phosphofructo-2-kinase to increase the efficacy of ER and CDK4/6 inhibitors against breast cancer.

Arkene S. Levy, PhD, Associate Professor, Nova Southeastern University, Fort Lauderdale, FL. Abstract 4924. Evaluation of the efficacy of curcumin and Y15 in platinum-resistant ovarian cancer cells.

Edward A. Medina, MD, Assistant Professor, UT Health Science Center at San Antonio, San Antonio, TX. Abstract 4902. Oxidized low-density lipoprotein is a potentially potent mediator of proteasome inhibitor resistance in multiple myeloma.

Valerie Odero-Marah, PhD, Associate Professor, Clark Atlanta University, Atlanta, GA. Abstract 1096. STAT3 pathway regulates the cancer-bone microenvironment interactions mediated by Snail.

Humberto Parada, PhD, Assistant Professor, San Diego State University, San Diego, CA. Abstract 243. Genetic polymorphisms of diabetes-related genes, their interaction with diabetes status, and breast cancer incidence and mortality: The Long Island Breast Cancer Study Project.

Alexander Pertsemlidis, PhD, Associate Professor, UT Health Science Center at San Antonio, San Antonio, TX. Abstract 4402. MiR-195 potentiates the efficacy of microtubule-targeting agents in non-small cell lung cancer.

Carlos Torres Ramos, PhD, Associate Professor, University of Puerto Rico Medical Sciences Campus, San Juan, PR. Abstract 5041. Repair of azoxymethane-induced nuclear and mitochondrial DNA lesions in mouse liver.

Gangadhara Reddy Sareddy, PhD, Assistant Professor, UT Health Science Center at San Antonio, San Antonio, TX. Abstract 5875. Development of LIFR inhibitor EC359 as a novel therapeutic for ovarian cancer.

Meghana V. Trivedi, PhD, Associate Professor, University of Houston, Houston, TX. Abstract 1926. Npy1r as a prognostic marker and a novel drug target in estrogen receptor-positive breast cancer.

Jovanny Zabaleta, PhD, Associate Professor, Louisiana State University Health Sciences Center, New Orleans, LA. Abstract 646. Immune checkpoints and inflammation in colon tumors from African Americans.

2018 AACR MINORITY SCHOLAR IN CANCER RESEARCH AWARDS

The AACR is very pleased to administer this important program, which provides funds for the participation of early-career, meritorious minority scientists at the AACR Annual Meeting 2017. Scholars are chosen from both minority institutions and the larger bodies of universities, colleges, and research institutes. They are selected on the basis of their qualifications, references from mentors, and an estimation of the potential professional benefit to the awardees.

Since its founding in 1985, the Minority Scholar Awards in Cancer Research program has been supported by a generous grant of the National Cancer Institute’s Center
to Reduce Cancer Health Disparities. The Center to Reduce Cancer Health Disparities (CRCHD) works to increase the number of underrepresented minorities participating as competitive NCI/NIH-funded cancer researchers. In 2018, the AACR and the CRCHD have both generously provided funding for these awards.

For 33 years, the AACR has endeavored through this program to reach out to minority predoctoral and postdoctoral students, trainees, and junior investigators as future cancer researchers. The program was created in an attempt to address the serious problem of lack of minority participation in cancer research by offering young minority students and trainees the opportunity to attend and participate in the Annual Meetings and Special Conferences of the AACR.

The names and affiliations of the 2018 Minority Scholar Award recipients are listed below, along with the numbers and titles of their presentations.

**Brian A. Aguado, PhD**, Postdoctoral Fellow, University of Colorado Boulder, Boulder, CO. Abstract 1106. A synthetic premetastatic niche mimic alters the primary tumor and tumor microenvironment.

**Oluwole A. Babatunde, MBBS**, Graduate Student, University of South Carolina, Columbia, SC. Abstract 5272. Racial disparities and predictors of receipt of late surgery among patients diagnosed with breast cancer in South Carolina.

**Vincent Bernard, MS**, Graduate Research Assistant, MD Anderson Cancer Center, Houston, TX. Abstract 2599. Circulating nucleic acids as biomarkers of prognosis and chemorefractory status in metastatic pancreatic cancer.


**Maria S. Dixon, PhD**, Postdoctoral Fellow, North Carolina Central University, Durham, NC. Abstract 4457. Determining the role of novel GLI1 splice variants in breast cancer.


**Angela M. Jarrett, PhD**, Postdoctoral Fellow, The University of Texas at Austin, Austin, TX. Abstract 924. A mathematical-experimental approach for predicting host responses in a preclinical model for trastuzumab-treated HER2+ breast cancer.

**Jeronay A. King, BA**, Graduate Student, Morehouse School of Medicine, Atlanta, GA. Abstract 2590. Race-specific differential expression of CCL25 and CCR9 in triple-negative breast cancer.

**Kimiko L. Krieger, BS**, Graduate Research Assistant, University of Nebraska Medical Center, Omaha, NE. Abstract 340. CTDPI regulates FANCI activation and DNA repair.

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Mike Oliphant, MS, Graduate Student, University of Colorado Denver Anschutz Medical Campus, Aurora, CO. Abstract 5001. Identification of a Six2/Sox2/Nanog stem cell axis that promotes breast cancer metastatic colonization.

Paneen S. Petersen, MPH, Graduate Student, University of Washington, Seattle, WA. Abstract 5268. Interactions between genetic predictors of gene expression and dietary factors associated with risk of colorectal cancer.


Yainyrette Rivera Rivera, PhD, Postdoctoral Fellow, Ponce Health Sciences University/ Ponce Research Institute, Ponce, PR. Abstract 1461. Targeting mitotic kinases in breast cancers in Latinas.

Jean F. Ruiz Calderon, PhD, Postdoctoral Fellow, UPR-Medical Science Campus, San Juan, PR. Abstract 1905. New targeted therapeutics for gastric cancer.

Marsha Samson, PhD, Postdoctoral Fellow, Georgetown University, Washington, DC. Abstract 5252. Prospective cohort study of physical activity and lung cancer risk in the Black Women’s Health Study.

Elkhansa H. Sidahmed, PhD, Postdoctoral Fellow, Harvard T.H Chan School of Public Health, Boston, MA. Abstract 5255. A pooled analysis of dietary fiber intake and risk of prostate cancer.

Gabriela Uribe, BS, Graduate Student, University of Texas Medical Branch, Galveston, TX. Abstract 5065. Cancer-derived Escherichia coli induces tumor-promoting inflammatory cytokine IL-6 in cancer-associated fibroblasts (CAFs) in a NF-κB/BRD4 dependent manner.

Lashanale M. Wallace, BS, Graduate Student, Morehouse School of Medicine, Atlanta, GA. Abstract 2228. Differential expression of MT-ATPase and COXIV genes in colorectal adenolypops.

2018 AACR WOMEN IN CANCER RESEARCH SCHOLAR AWARDS

The AACR is very pleased to administer this important program, which provides funds for the participation of early-career, meritorious scientists at the AACR Annual Meeting 2018. Scholars are selected on the basis of their qualifications, references from mentors, and an estimation of the potential professional benefit to the awardees.

The names and affiliations of the 2018 Women in Cancer Research Scholars, along with the numbers and titles of their presentations, are listed below.

Francesca Chemi, PhD, Postdoctoral Fellow, Cancer Research UK Manchester Institute, Alderley Edge, United Kingdom. Abstract 5601. Single-cell molecular profiling of circulating tumor cells (CTCs) within the TRACERx study reveals heterogeneous patterns in early non-small cell lung cancer (NSCLC).

Nina J. Chu, BS, Graduate Student, Johns Hopkins University School of Medicine, Baltimore, MD. Abstract 4979. Novel miRNA regulation in an early progression model of pancreatic ductal adenocarcinoma.
Sarah E. Croessmann, PhD, Postdoctoral Research Fellow, Vanderbilt-Ingram Cancer Center, Nashville, TN. **Abstract 4008.** Activating HER2 (ERBB2) mutations lead to endocrine therapy resistance through S6K activation.

Kathleen E. DelGiorno, PhD, Postdoctoral Research Fellow, The Salk Institute, La Jolla, CA. **Abstract 992.** Pancreatic tuft cells resolve injury and restrain tumorigenesis.

Serena C. Houghton, PhD, Postdoctoral Researcher, University of Massachusetts Amherst, Amherst, MA. **Abstract 3221.** Plasma B-vitamin and one-carbon metabolites and risk of breast cancer before and after folic acid fortification in the US.

Xiaomeng X. Huang, PhD, Postdoctoral Research Associate, University of Utah, Salt Lake City, UT. **Abstract 2195.** Temporal and spatial dynamics of metastatic colonization revealed by 26 rapid-autopsy tumor biopsies from a TNBC patient.

Sarah Østrup Jensen, MS, Graduate Student, Aarhus University Hospital, Brabrand, Denmark. **Abstract 5604.** Novel DNA methylation biomarkers show high sensitivity and specificity for blood-based detection of colorectal cancer—a clinical biomarker discovery and validation study.

Salma Kaochar, PhD, Postdoctoral Fellow, Baylor College of Medicine, Houston, TX. **Abstract 4961.** A highly potent novel class of SRC-3 inhibitors for the treatment of uveal melanoma.

Utthara Nayar, PhD, Research Fellow, Dana-Farber Cancer Institute, Boston, MA. **Abstract 4952.** Acquired HER2 mutations in ER+ metastatic breast cancer confer resistance to ER-directed therapies.

Yaara Oren, PhD, Postdoctoral Fellow, Broad Institute of MIT and Harvard, Boston, MA. **Abstract 3301.** Using a novel single-cell lineage-tracing technique to uncover the mechanisms driving nongenetic cancer relapse.

**2018 AACR African Cancer Researchers Travel Awards**

For the third consecutive year, the AACR is pleased to offer the African Cancer Researchers Travel Awards to five early-career investigators in Africa wishing to participate in the AACR Annual Meeting. These awards are intended to enhance the education and training of African scientists engaged in basic, clinical, translational, or epidemiologic cancer research.

The names and affiliations of the 2018 African Cancer Researchers Award recipients are listed below, along with the numbers and titles of their presentations.

Davies Adeloye, MBBS, PhD, Nigerian Urban Reproductive Health Initiative, Nigeria. **Abstract 2300.** Epidemiology of childhood hematologic cancers in Africa: A systematic review of the evidence.

Loiy Ahmed Hassan, PhD, Omdurman Islamic University, Sudan. **Abstract 2009.** Bioassay approach isolation and crystal structure elucidation of isoglabratephrin: A prenylated flavonoid from *Tephrosia apollinea* and its anticancer property.

Lester Davids, PhD, University of the Western Cape, South Africa. **Abstract 708.** A theranostic approach using photodynamic therapy to efficiently kill neuroblastoma cancer cells through induction of apoptosis.
TRAVEL AWARDS


AACR-UNDERGRADUATE SCHOLAR AWARDS

The AACR is pleased to announce the recipients of 2018 AACR-Undergraduate Scholar Awards. The primary purpose of these awards is to inspire young science students at the undergraduate level to enter the field of cancer research. The AACR is committed to promoting the education and training of the next generation of dedicated scientists and to facilitating and nurturing their careers in cancer research or cancer-related biomedical science. These awards were previously named the AACR-Thomas J. Bardos Science Education Scholar Awards for Undergraduate Students.

The names and affiliations of the 2018 Awardees are listed below, along with the numbers and titles of their abstract presentations, where appropriate. Congratulations are extended to these talented young scholars.

Vidal M. Arroyo, Chapman University, Orange, CA. Abstract 1197. Soft tissue sarcoma clinical presentation, treatment, and survival in adolescents and young adults compared to older adults: A report from the Scandinavian Sarcoma Group.

Samantha M. Bouchal, Duke University, Durham, NC.

Laura E. Goo, University of Michigan, Ann Arbor, MI. Abstract 1444. RhoC regulation of inflammatory breast cancer metabolism.

Theodore D. Hansel, Harvey Mudd College, Claremont, CA.

Malay Mody, University of Michigan, Ann Arbor, MI. Abstract 4370. Regulation of AGO2-KRAS interaction through epidermal growth factor receptor.

Ahneesh J. Mohanty, University of Texas Southwestern Medical Center, Dallas, TX. Abstract 2929. GC4419 enhances the response of non-small cell lung carcinoma cell lines to cisplatin and cisplatin plus radiation through a ROS-mediated pathway.

Karim B. Nabi, Johns Hopkins School of Medicine, Baltimore, MD. Abstract 5473. Identification of compensatory pathway for glutamate production upon glutaminase 1 inhibition.

Eric C. Olsen, Brigham Young University, Provo, UT. Abstract 771. HPRT: A biomarker and potential target for detection and treatment of colorectal cancer.

Aman Prasad, The Ohio State University, Columbus, OH. Abstract 4727. MicroRNA-155 as a regulator of NK cell mediated solid tumor rejection.

Yuanhao Qu, University of California, San Diego, San Diego, CA. Abstract 5743. Aberrant microRNA expression dysregulates the head and neck squamous cell carcinoma immune landscape.