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Dear Colleagues and Friends of the AACR,
We are delighted to welcome you to the 108th Annual Meeting of the American Association for Cancer Research (AACR) in Washington, DC, the birthplace of the organization.
This year marks a very special anniversary for the AACR. In 1907, eleven prominent scientists and physicians convened at the Willard Hotel, just a few blocks away, to found the AACR and set the course to prevent and cure cancer. Later that year, the very first scientific meeting of the AACR took place, with a mere eight scientific presentations. Now, 110 years later, this will be the largest AACR Annual Meeting ever, with over 20,000 laboratory researchers, clinicians, and patient advocates from all over the globe, representing all sectors of the cancer research community. As we commemorate this 110th anniversary, we invite you to visit the Landmarks in Cancer Research display, located on the L Street Bridge outside Hall D-E. With the theme of “Leading Discoveries, Targeting Cures, and Saving Lives,” this display will highlight the rich history of the AACR and the field through an impressive timeline of discoveries and progress against cancer over the decades.
We are extremely grateful to the Annual Meeting Program Committee, Education Committee, and Clinical Trials Committee for their dedicated efforts and expert advice as they strived to develop a program that reflects the breadth and depth of the rapidly advancing cancer research field. The program will highlight emerging areas, breakthroughs in immunotherapy, and growth in the areas of precision medicine and precision prevention. One of the most exciting aspects of this meeting is hearing about the advances being made in our understanding of the biology of cancer and the tremendous clinical implications for cancer patients. Today’s science is offering opportunities to minimize the burden of cancer through prevention and early detection, and for this reason, we have selected the theme, “Research Propelling Cancer Prevention and Cures,” for this year’s meeting.
In addition to the state-of-the-art translational science presented during the program, clinical trials will once again be highlighted in minisymposia as well as 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. While in Washington, DC, we will also offer a comprehensive Regulatory Science and Policy track and a set of Science Policy sessions. On Monday afternoon, leaders from government, academia, industry, patient advocacy organizations, and Capitol Hill will join us for a lively discussion during the Beau Biden Cancer Moonshot: Progress and Promise session.
This year, we are proud to present the Presidential Select Symposium, which will explore the broad spectrum of the science behind cancer health disparities. Another new feature of the meeting is the Unsolved Mysteries sessions, which will take place on Saturday evening and will offer time for thought-provoking presentations from basic scientists and clinicians, each providing unique perspectives to answer important clinical questions.
We are deeply grateful to the corporations, organizations, and foundations that have provided generous financial support for the AACR Annual Meeting 2017. These valued contributions allow us to host this critically important annual forum that facilitates the exchange of scientific and clinical information and lays the groundwork for new collaborations and advances in the field. Their commitment also enables the professional development of the next generation of leaders through a variety of educational sessions, grants, and awards.
Thank you for joining us! We look forward to your participation in the many discussion and networking events throughout the meeting. We are confident that you will be inspired and energized by your experience this week and will have a renewed sense of how to contribute to our shared goal of leading discoveries, targeting cures, and saving lives.

Sincerely,

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It is the AACR’s privilege to honor those scientists who have reached the 50th year of membership this year. The AACR Board of Directors would like to extend their sincere thanks and appreciation to these members for their continued participation in and support of the AACR’s activities and programs. Special recognition of these distinguished members will be given during the Annual Business Meeting of Members, to be held on Monday, April 3.

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

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Eleventh Annual AACR Margaret Foti Award for Leadership and Extraordinary Achievements in Cancer Research
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Eleventh Annual AACR Team Science Award
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Twentieth Annual AACR-Women in Cancer Research Charlotte Friend Memorial Lectureship
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Thirteenth Annual AACR-Irving Weinstein Foundation Distinguished Lectureship
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<th>Room Name</th>
<th>Location</th>
<th>Opens</th>
<th>Phone #</th>
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<tbody>
<tr>
<td>AACR Office</td>
<td>Room 156</td>
<td>Friday, 12:00 p.m.</td>
<td>202-249-4092</td>
</tr>
<tr>
<td>AACR Exhibit Booth (AACRcentral)</td>
<td>Booth 1125</td>
<td>Sunday, 1:00 p.m.</td>
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<tr>
<td>AACR Amphitheater</td>
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<td>Associate Member Resource and Career Center</td>
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<td>Membership Center</td>
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<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>L Street Bridge</td>
<td>Saturday, 8:00 a.m.</td>
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<tr>
<td>AACR Publications Booth</td>
<td>Booth 2731</td>
<td>Sunday, 1:00 p.m.</td>
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<tr>
<td>CancerCareers.org Center</td>
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<td>CME Booth</td>
<td>West Hall</td>
<td>Saturday, 3:00 p.m.</td>
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</tr>
<tr>
<td>Information Booth</td>
<td>Grand Lobby</td>
<td>Friday, 3:00 p.m.</td>
<td>202-249-4091</td>
</tr>
<tr>
<td>Coat, Package, and Luggage Check</td>
<td>L Street South Lobby</td>
<td>Saturday, 7:30 a.m.</td>
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<tr>
<td>Child Care</td>
<td>East Hall, Salon F</td>
<td>Saturday, 7:30 a.m.</td>
<td>202-249-4118</td>
</tr>
<tr>
<td>Exhibit Management Office</td>
<td>Hall A Show Office</td>
<td>Saturday, 8:00 a.m.</td>
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<tr>
<td>Housing Booth (CMR)</td>
<td>West Salons G-I</td>
<td>Friday, 3:00 p.m.</td>
<td>202-249-4095</td>
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<tr>
<td>First Aid Station</td>
<td>Hall A</td>
<td>Friday, 8:00 a.m.</td>
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<td></td>
<td>Hall D</td>
<td>Friday, 3:00 p.m.</td>
<td>202-249-3109</td>
</tr>
<tr>
<td>Membership Center</td>
<td>West Salons G-I</td>
<td>Friday, 3:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>Membership Hub</td>
<td>L Street Bridge</td>
<td>Saturday, 8:00 a.m.</td>
<td></td>
</tr>
<tr>
<td>NCI Resource Room</td>
<td>Room 210</td>
<td>Saturday, 9:00 a.m.</td>
<td></td>
</tr>
<tr>
<td>Nursing Mothers Suite</td>
<td>East Hall, Salon D and E</td>
<td>Saturday, 7:30 a.m.</td>
<td></td>
</tr>
<tr>
<td>Press Office</td>
<td>Room 149</td>
<td>Saturday, 7:00 a.m.</td>
<td>202-249-4101</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>202-249-4102</td>
</tr>
<tr>
<td>Registration</td>
<td>West Hall, Salons G-I</td>
<td>Friday, 3:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>Scientist↔Survivor Program Room</td>
<td>Room 203A</td>
<td>Saturday, 6:00 a.m.</td>
<td></td>
</tr>
<tr>
<td>Speaker Preparation Room</td>
<td>Room 209A</td>
<td>Friday, 2:00 p.m.</td>
<td>504-670-7907</td>
</tr>
</tbody>
</table>
REGISTRATION

Registration will be located in the West Hall, Salons G-I of the Walter E. Washington Convention Center on the following schedule:

- Friday, March 31: 3:00 p.m.-7:00 p.m.
- Saturday, April 1: 7:00 a.m.-6:00 p.m.
- Sunday, April 2: 6:30 a.m.-6:00 p.m.
- Monday, April 3: 6:30 a.m.-5:00 p.m.
- Tuesday, April 4: 6:30 a.m.-5:00 p.m.
- Wednesday, April 5: 6:30 a.m.-12:00 p.m.

Spouse registration may only be purchased on-site beginning Sunday, April 2. 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.

HOUSING

The AACR Housing Desk (CMR) will be available in West Hall, Salons G-I of the Walter E. Washington Convention Center for individuals who need assistance with their accommodations. The Housing Desk will be open during the following hours:

- Friday, March 31: 3:00 p.m.-7:00 p.m.
- Saturday, April 1: 7:00 a.m.-6:00 p.m.
- Sunday, April 2: 6:30 a.m.-6:00 p.m.
- Monday, April 3: 6:30 a.m.-5:00 p.m.
- Tuesday, April 4: 6:30 a.m.-5:00 p.m.
- Wednesday, April 5: 6:30 a.m.-12:00 p.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. The fee for the Grant Writing Workshop is $45 for AACR members registered for the Annual Meeting. For all other Professional Advancement Sessions, attendance is free for members with your Annual Meeting registration.

The Grant Writing Workshop sold out during advance registration. Limited seating may be available on-site on a first-come, first-served basis. Participation by AACR members for all other 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.)

MEMBERSHIP

Annual Meeting registrants are invited to visit the Membership Hub (L Street Bridge), the Membership Center (AACRcentral, Booth 1125), or the Membership Booth (Registration) to learn more about membership and the exclusive benefits available to AACR 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.
Special Membership Offer to Nonmember Registrants

Annual Meeting attendees who are registered as nonmembers are encouraged to join AACR. Those who apply for membership and are approved will receive free membership for 2017. Don’t miss this opportunity to join us in the global conquest of cancer. Apply at the Membership Hub (L Street Bridge), the Membership Center (AACRcentral, Booth 1125), or the Membership Booth (Registration).

ANNUAL MEETING INFORMATION BOOTH

The Annual Meeting Information Booth is located in the Grand Lobby of the Walter E. Washington Convention Center and will be open during session hours to provide information about the AACR, the Annual Meeting, and the city of Washington, DC. 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 209A in the Walter E. Washington Convention Center) at least four hours before their sessions begin to test their presentations. The Speaker Preparation Room will be open on Friday, March 31, from 2:00 p.m. to 6:00 p.m., will be open daily during the meeting from 6:30 a.m. to 6:30 p.m., and close on Wednesday, April 5, at 12:00 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 will be located in Room 149 of the Convention Center. It will be open from 7:00 a.m. to 6:00 p.m. each day beginning on Saturday, April 1, and from 7:00 a.m. to 12:30 p.m. on Wednesday, April 5. The AACR’s press contacts are Jeff Molter, Director of Media and Public Relations, 267-210-3965, jeff.molter@aacr.org, and Julia Gunther, Assistant Director of Media and Public Relations, 267-250-5441, julia.gunther@aacr.org.

CHILD CARE

Professional child care services are offered at a nominal cost in Salon F, East Hall of the Convention Center on the following schedule:

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
</tr>
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<tbody>
<tr>
<td>Saturday, April 1</td>
<td>7:30 a.m.-7:00 p.m.</td>
</tr>
<tr>
<td>Sunday, April 2</td>
<td>6:30 a.m.-7:00 p.m.</td>
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<tr>
<td>Monday, April 3</td>
<td>6:30 a.m.-7:00 p.m.</td>
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<tr>
<td>Tuesday, April 4</td>
<td>6:30 a.m.-7:00 p.m.</td>
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<tr>
<td>Wednesday, April 5</td>
<td>6:30 a.m.-1:30 p.m.</td>
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</tbody>
</table>

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 2017. The Nursing Mothers Suite will be available in Salons D and E, East Hall of the Convention Center on the following schedule:

- **Saturday, April 1** 7:30 a.m.-7:00 p.m.
- **Sunday, April 2** 6:30 a.m.-7:00 p.m.
- **Monday, April 3** 6:30 a.m.-7:00 p.m.
- **Tuesday, April 4** 6:30 a.m.-7:00 p.m.
- **Wednesday, April 5** 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 West Hall, Salons G-I in the Convention Center.

To view more information or register for any of these symposia, visit [www.aacr.org/satellite17](http://www.aacr.org/satellite17).

**GUIDE TO POSTER SESSIONS AND EXHIBITS**

Limited quantities of the 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.
GENERAL INFORMATION

● 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 and B, please refer to the Guide to Poster Sessions and Exhibits and the Annual Meeting App.

● EXPLORE!
Explore! is a fun way attendees can interact with exhibitors while entering into a drawing for 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.

● FOOD COURT
The AACR will provide an area on the show floor for all conference attendees to purchase lunch during poster and exhibit hours. The Food Court will be located in the back of the Poster and Exhibit Hall and will serve 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 the 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.
• Participate in events organized by the Associate Member Council (AMC), Women in Cancer Research (WICR), Minorities in Cancer Research (MICR), and the Career Development Committee.
• 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.

● EXHIBITOR-HOSTED REFRESHMENT BREAKS
Don’t miss the Exhibitor-Hosted Refreshment Breaks in the Exhibit Hall on Monday and Tuesday, April 3 and 4, 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.
AACR 110TH ANNIVERSARY: LANDMARKS IN CANCER RESEARCH

In 2007, the AACR marked its centennial with the development of the Landmarks in Cancer Research display to highlight major milestones and celebrate a century of making progress in saving lives through cancer research. This year, as we commemorate the 110th anniversary, we invite you to visit the updated Landmarks in Cancer Research display, located on the L Street Bridge outside Hall D-E. With the theme of “Leading Discoveries, Targeting Cures, and Saving Lives”, follow the rich history of the field, view the impressive timeline of discoveries and progress against cancer over the past 110 years, and join us in honoring and recognizing the contributions of those who work every day to defeat cancer.

ANNUAL RECEPTION

All Annual Meeting registrants are invited to attend the Annual Reception on Sunday evening, April 2, from 8:30 p.m. to 11:30 p.m. in the Marquis Ballroom of the Marriott Marquis Washington. 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 Marriott Marquis Washington. 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 2017 Cancer and Biomedical Research Career Fair is coming to Washington, DC, on Saturday, April 1, 2017, from 9:00 a.m. to 3:00 p.m. in the East Hall, Salons A-C of the Convention Center. Building upon the success of AACR’s previous Career Fairs, the 2017 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 (L Street Bridge). Registration for the Career Fair is free to job seekers.

NCI RESOURCE ROOM

The NCI Grants Resource Room, located in Room 210 of the Convention Center, provides information and handouts related to new research initiatives and information on the grant application process, including Program and Review staff contacts. Program and Review staff of the NCI as well as Review staff from CSR will be available at the Resource Room for discussions and consultation throughout the meeting.

A list with details of specific NCI and CSR staff availability will be posted in the room.

Conferences can be scheduled to discuss individual grant/review questions. Interested members of the scientific community are encouraged to meet with Program or Review staff to clarify specific issues or other items of interest. New
investigators are especially encouraged to meet with Program staff handling grant portfolios in their area of scientific interest. The 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.

AACR 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 Sunday, April 2, from 1:00 p.m. to 5:00 p.m. and Monday, April 3, from 1:00 p.m. to 5:00 p.m. in the Poster and Exhibit Hall. For more information on the Scientist↔Survivor Program, visit the SSP Resource Room located in Room 203A of the Convention Center, or email ssprogram@aacr.org.

AACR ADVOCACY PARTNERS’ PAVILION
Visit the Advocacy Pavilion in the Poster and Exhibits 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 between groups, patients, and healthcare professionals.

AACR FOUNDATION
Join us for the AACR Runners for Research 5k Run/Walk on April 1! 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 on the L Street Bridge.
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/AACR2017.

NEW! E-POSTERS

New this year, posters presented at the Annual Meeting will be available through an online, interactive, fully searchable database. E-posters will be accessible to meeting attendees through the online itinerary planner, the Annual Meeting App, and at eight kiosks placed around the Poster and Exhibits Hall. (Note: Participation in e-posters is left to the discretion of each presenter. Therefore, not all posters will be available in this format.)

ANNUAL MEETING WEBCASTS

Exclusive online streaming access to the audio and slides of scientific sessions presented at the AACR Annual Meeting 2017 is available free to all paid attendees. Webcasts will be available on April 26, 2017 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, PACKAGE, AND LUGGAGE CHECK SERVICE

Coat, package, and luggage check service will be available in the L Street Lobby, South of the Convention Center on the following schedule:

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Saturday, April 1</td>
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<tr>
<td>Wednesday, April 5</td>
<td>6:30 a.m.-2:00 p.m.</td>
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</tbody>
</table>
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 156 of the Convention Center.

CODE OF CONDUCT, POLICIES, AND PROCEDURES

The AACR Annual Meeting 2017 will bring together over 19,000 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 2017, 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.

• Cell phones and other electronic devices must be turned off or placed on “silent” mode before entering a session. Participants should step out of session rooms to make calls or send emails or texts as the back lighting on electronic devices is distracting to other participants.

• The AACR expects participants to share information about this program responsibly and clearly distinguish individual opinion from fact.

• 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 Marshall 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.

NEW: PHOTOGRAPHY AND SOCIAL MEDIA POLICIES

Photography. Conference attendees may take photographs during oral or poster presentations provided that the photographs are strictly for personal, noncommercial use and are not to be published in any form. Attendees are prohibited from using flash photography or otherwise distracting the presenters or members of the audience.

Social Media. Conference attendees may share information from presentations on social media provided that they respect the wishes of presenters. Oral presenters may label any or all slides in their presentations with “DO NOT POST.” Similarly, poster presenters may label their posters with “DO NOT POST.” Attendees must respect the presenters’ requests in these instances and refrain from posting any images from these designated slides or posters on social media.

LOST AND FOUND

Anything left in any area of the Center will be taken to the AACR Security Office, Show Office B, on the Concourse Level of the Center. Any item not picked up from this office by the end of the meeting will be handed over to the Public Safety office of the Walter E. Washington Convention Center, where it will be held for 90 days.

NO SMOKING REGULATION

Smoking is prohibited in all areas of the Walter E. Washington Convention Center and at sessions and social events held in other venues.

NOTICE OF PHOTOGRAPHER AND VIDEOGRAPHER ON PREMISES

A professional photographer and videographer may be on-site to document AACR Annual Meeting events and activities between April 1 and April 5, 2017. 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 44.75 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

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 online CME Request for Credit Survey. Certificates will only be issued to those who complete the survey. The Request for Credit Survey will be available on the AACR website at www.aacr.org/am17cme 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
With the accelerating pace of discoveries in the basic, translational, and clinical sciences, due in large part to the advent of new technologies and also our increased understanding of the interplay between the immune system and cancer, cancer researchers are making rapid progress that is having significant patient benefit. 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 cutting-edge research. This exposure is essential for the implementation of best practices, such as 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 knowledge of the epidemiologic implications of cancer incidence and 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.

Despite the tremendous progress in the field, cancer continues to be an enormous public health challenge worldwide, accounting for one in every seven deaths that occur around the world. In the United States (U.S.) alone, it is predicted that 595,650 people will die from some form of cancer in 2016, 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 colorectal, lung, and prostate cancer—incidence has been declining for more than a decade. However, incidence of other forms of cancer—including melanoma and kidney, liver, pancreatic, and childhood cancer—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 and survival rates are also impacted by the cancer health disparities that exist in certain segments of the U.S. population.

This conference will bring together 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 have widespread implementation of the most current, approved molecular-based tests to aid in the diagnosis, treatment, and prevention of cancer, it is critical to bridge the gap between what physicians understand about cancer biology and its application to clinical oncology. 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. Recognize the technological advances and tools being used to accelerate progress in cancer research and improve early detection and early intervention, 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 in order to improve patient outcomes.

4. Formulate new strategies that will further 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 Annual Meeting 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 that will be disclosed at the activity.

Questions about CME?

Please contact the Office of CME at 215-440-9300 or cme@aacr.org.
## AACR Annual Meeting 2017 Hotel Listing

<table>
<thead>
<tr>
<th>No.</th>
<th>Hotel Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Marriott Marquis Washington, DC</td>
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<tr>
<td>2</td>
<td>Renaissance Washington, DC Downtown Hotel</td>
</tr>
<tr>
<td>3</td>
<td>Avenue Suites</td>
</tr>
<tr>
<td>4</td>
<td>Beacon Hotel and Corporate Quarters</td>
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<tr>
<td>5</td>
<td>Cambria Suites Washington, DC</td>
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<tr>
<td>6</td>
<td>Capitol Hilton</td>
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<tr>
<td>7</td>
<td>Comfort Inn Convention Center - Downtown DC</td>
</tr>
<tr>
<td>8</td>
<td>Courtyard by Marriott Embassy Row</td>
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<tr>
<td>9</td>
<td>Embassy Row Hotel</td>
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<tr>
<td>10</td>
<td>Fairfield Inn &amp; Suites Washington, DC</td>
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<tr>
<td>11</td>
<td>Fairmont Washington, DC, Georgetown</td>
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<tr>
<td>12</td>
<td>Hampton Inn Washington, DC</td>
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<td>13</td>
<td>Henley Park Hotel</td>
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<td>14</td>
<td>Hilton Garden Inn Washington, DC - Downtown</td>
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<td>15</td>
<td>Holiday Inn Capitol</td>
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<tr>
<td>16</td>
<td>Homewood Suites Convention Center</td>
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<tr>
<td>17</td>
<td>Hotel RL Washington DC</td>
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<tr>
<td>18</td>
<td>Hyatt Place Washington DC</td>
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WALTER E. WASHINGTON CONVENTION CENTER
Level 1 (Street Level) • Meeting Rooms 101-160
MAPS

WALTER E. WASHINGTON CONVENTION CENTER
Level 2 • Exhibit Halls D and E • Meeting Rooms 201-210

HALL D-E
OPENING CEREMONY,
PLENARY SESSIONS,
OTHER SESSIONS

7TH STREET, BELOW
9TH STREET, BELOW
N STREET, BELOW
MARRIOTT MARQUIS DC
Meeting Level 2
(2 Levels Below Lobby)

MARRIOTT MARQUIS DC
Meeting Level 4
(4 Levels Below Lobby)
MAPS

GRAND HYATT WASHINGTON
Constitution Level (3B)

GRAND HYATT WASHINGTON
Independence Level (5B)
RENAISSANCE HOTEL
Ballroom Level
Edward J. Morrisey, PhD

**OBJECTIVE**

- Understand the role of metabolism in cancer progression and therapy resistance.
- Learn about the latest advances in metabolism research.
- Network with experts in the field of cancer metabolism.

**OUTLINE**

1. Introduction to Cancer Metabolism
2. Warburg Effect: The Role of Glycolysis in Cancer
3. The TCA Cycle and Its Significance in Cancer
4. Fatty Acid Oxidation and Its Impact on Cancer
5. Lipid Metabolism in Cancer
6. The Role of Cholesterol in Cancer
7. Signaling Molecules and Metabolism in Cancer
8. Therapeutic Approaches Targeting Metabolism in Cancer
9. Future Directions in Cancer Metabolism Research

**SPEAKERS**

- Dr. Edward J. Morrisey, PhD
- Dr. Sarah Lee, PhD
- Dr. John Wang, MD
- Dr. Maria Smoke, MD
- Dr. Robert Kim, PhD

**CONFERENCE HIGHLIGHTS**

- Poster Session: Metabolism and Cancer Research
- Workshop: Metabolomics in Cancer Therapy Development
- Panel Discussion: The Future of Cancer Metabolism in Personalized Medicine
9:00 a.m.  Personalized cancer models for cancer target discovery and precision medicine. Christopher J. Kemp, Seattle, WA

9:30 a.m.  From screen to in vivo validation. Scott W. Lowe, New York, NY

Room 152, Level 1, Washington Convention Center

Polygenetic Susceptibility to Cancer and the Exposome

Chair: Paul D. Pharoah, Cambridge, United Kingdom

8:00 a.m.  Gene-panel testing in clinical cancer genetics: Opportunities and limitations. Mark E. Robson, New York, NY

8:30 a.m.  Polygenic cancer susceptibility: Where lies the missing heritability? Peter Kraft, Boston, MA

9:00 a.m.  From association to function: Understanding the molecular mechanisms behind common cancer susceptibility alleles. Simon A. Gayther, Los Angeles, CA

9:30 a.m.  Application of next generation sequencing to cancer epidemiology studies. Paul D. Pharoah, Cambridge, United Kingdom

Room 201, Level 2, Washington Convention Center

Resistance Mechanisms to MAPK Pathway Targeting across Cancer

Chair: Roger S. Lo, Los Angeles, CA

8:00 a.m.  Title to be announced. Willy Hugo, Los Angeles, CA

8:30 a.m.  Title to be announced. Ryan B. Corcoran, Boston, MA

Room 206, Level 2, Washington Convention Center

Synthetic Lethality for Treating DNA Repair Defect in Human Cancer

Chair: Simon N. Powell, New York, NY

8:00 a.m.  Defining DNA repair defects in human cancer. Simon N. Powell, New York, NY

8:30 a.m.  Synthetic lethality for Fanconi anemia/BRCA pathway defects. Alan D. D’Andrea, Boston, MA

9:00 a.m.  PARP trapping, replicative damage and Schlafen 11. Yves G. Pommier, Bethesda, MD

9:30 a.m.  Emerging synthetic lethality concepts in DNA repair. Thomas U. Hellday, Stockholm, Sweden

PROGRAM GUIDE 53
SATURDAY, APRIL 1

Ballroom A-B, Level 3, Washington Convention Center

**Tumor Immunology and Immunotherapy for Non-immunologists: Immune Suppression and Overcoming It to Enhance Antitumor Therapies**

*Chair: Ellen Puré, Philadelphia, PA*

- **8:00 a.m.** Immune modulation by stroma in solid tumors. Ellen Puré, Philadelphia, PA
- **8:30 a.m.** Innate immune signaling in cancer: New concepts. Glen N. Barber, Miami, FL
- **9:00 a.m.** Tumor-derived exosomes suppress functions of immune cells and may interfere with immune therapies. Theresa L. Whiteside, Pittsburgh, PA
- **9:30 a.m.** Overcoming immune checkpoints to treat cancer. Charles G. Drake, New York, NY

Room 202, Level 2, Washington Convention Center

**Tumor Microenvironment and Its Role in Drug Resistance and Metastasis**

*Chair: Ilaria Malanchi, London, United Kingdom*

- **8:00 a.m.** The metastatic niche. Ilaria Malanchi, London, United Kingdom
- **8:30 a.m.** Dissecting the low-grade glioma ecosystem. David H. Gutmann, St. Louis, MO
- **9:00 a.m.** Co-evolution of tumor and tumor microenvironment facilitates metastasis and therapeutic resistance. Dihua Yu, Houston, TX
- **9:30 a.m.** A way by which the tumor microenvironment can impact resistance to antiangiogenic therapy. Robert S. Kerbel, Toronto, ON, Canada

● **METHODS WORKSHOPS • 8:00 a.m.–10:00 a.m.**

Room 146, Level 1, Washington Convention Center

**Advances in Cancer Evolution**

*Chair: Charles Swanton, London, United Kingdom*

- **8:00 a.m.** How single-cell genomics is revolutionizing cancer research. Nicholas E. Navin, Bellaire, TX
- **8:30 a.m.** Deciphering selection in lung cancer evolution. Thomas Watkins, London, United Kingdom
- **9:00 a.m.** Insights into cancer evolution and selection from whole genome sequencing studies? Peter J. Campbell, Cambridge, United Kingdom
- **9:30 a.m.** Advances in analytical methods for clonal evolution inference at single-cell and bulk resolution. Sohrab Shah, Vancouver, BC, Canada
Room 151, Level 1, Washington Convention Center
**Application of Novel Models to Guide Individual Therapies**

**Chair:** James H. Doroshow, Bethesda, MD

- **8:00 a.m.** The broad cell line factory: Developing early passage cell lines for cancer biology and drug development. Jesse S. Boehm, Cambridge, MA
- **8:30 a.m.** Utility of patient-derived xenograft models to mirror precision oncology clinical trials. James H. Doroshow, Bethesda, MD
- **9:00 a.m.** Pharmacodynamic modeling to predict biologically effective drug dosing. Ralph E. Parchment, Frederick, MD
- **9:30 a.m.** Spontaneous canine malignancies: Models for precision cancer medicine. Amy K. Leblanc, Bethesda, MD

Room 145, Level 1, Washington Convention Center
**Clinical Trials Design Workshop—Part 1: Clinical Trials for Targeted Therapies**

**Chair:** Mithat Gönen, New York, NY

- **8:00 a.m.** Design and outcome data from molecularly targeted basket trials. Edith A. Perez, South San Francisco, CA
- **8:30 a.m.** Title to be announced. Jeffrey A. Moscow, Bethesda, MD
- **9:00 a.m.** Update of biomarker prevalence identified by next-generation sequencing. Speaker to be announced
- **9:30 a.m.** Novel clinical trial designs for targeted agents. Mithat Gönen, New York, NY

Ballroom C, Level 3, Washington Convention Center
**Current and Future Pathology in the Era of Immunotherapy**

**Chair:** Janis Marie Taube, Baltimore, MD

- **8:00 a.m.** Illuminating the tumor microenvironment using single and multiplex immunohistochemistry. Janis Marie Taube, Baltimore, MD
- **8:30 a.m.** Next-generation pathology: Quantitative immunofluorescence and imaging mass cytometry. Kurt Alex Schalper, New Haven, CT
- **9:00 a.m.** Tissue-based genomic biomarkers for immunotherapy. Matthew David Hellmann, New York, NY
- **9:30 a.m.** The MANA functional expansion of specific T cells (MANAFEST) assay: A sensitive molecular approach for clinical monitoring of peripheral antitumor immunity. Kelly N. Smith, Baltimore, MD
PROFESSIONAL ADVANCEMENT SESSION
9:30 a.m.–11:30 a.m.

Constitution Ballroom C-E, Level 3B, Grand Hyatt Washington

Editor Tips for Publication Success
(not eligible for CME credit)

Chair: Victor E. Velculescu, Baltimore, MD

Speakers: Timothy R. Rebbeck, Boston, MA
Electra D. Paskett, Columbus, OH
Linda J. Miller, Philadelphia, PA
Judy N. Quong, Philadelphia, PA

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

Renaissance Ballroom, Ballroom Level, Renaissance Hotel

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

Chair: Kathleen W. Scotto, New Brunswick, NJ

Moderator: Jose G. Trevino II, Gainesville, FL

9:30 a.m. Registration and breakfast
10:00 a.m. Welcome
10:10 a.m. Understanding cancer. Ernest T. Hawk, Houston, TX
10:30 a.m. Message from a cancer survivor. Jameisha B. Brown, Bryan, TX
10:45 a.m. Navigating the Annual Meeting. Kornelia Polyak, Boston, MA
11:00 a.m. Remarks from lead judge and introduction to judges. Beverly D. Lyn-Cook, Jefferson, AR
11:30 a.m. Poster session
1:00 p.m. Break; lunch served
1:30 p.m. Professional development panel and Q&A

Moderator: Jose G. Trevino II, Gainesville, FL

Panelists: Oluwole A. Babatunde, Columbia, SC
Marigdalia Ramirez-Fort, New York, NY
3:00 p.m. Remarks from 2016 first-prize winner. Maryam Bainazar, Columbus, OH
3:05 p.m. Prize distribution
3:50 p.m. Closing remarks and evaluation

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

Room 147, Level 1, Washington Convention Center
From Chemistry to the Clinic: Part 2: Lessons from Medicinal Chemistry Cancer Drug Discovery Experiences
Chair: Vinod F. Patel, Acton, MA

10:15 a.m. Lessons from the discovery of mediator complex associated kinase (CDK8/19) inhibitors: Phenotypic screen to clinical candidate. Julian Blagg, Sutton, Surrey, United Kingdom

10:45 a.m. Inventing epacadostat: Following the data, not the “rules.” Andrew Paul Combs, Wilmington, DE (not eligible for CME credit)

11:15 a.m. Solving medicinal chemistry challenges towards discovering drug candidates to treat cancer. Michael J. Luzzio, Cambridge, MA

Room 152, Level 1, Washington Convention Center
Biology of Disparities with Emphasis on Prostate, Breast, and Colorectal Cancer: A Study of African Americans and Caucasians
Chair: John M. Carethers, Ann Arbor, MI

10:15 a.m. Breast cancer disparities: A study of African Americans and Caucasians. Foluso O. Ademuyiwa, St Louis, MO

10:45 a.m. Epigenetic drivers of aggressive prostate tumors in African Americans. Clayton C. Yates, Tuskegee, AL

11:15 a.m. Genetic contributions to colon cancer: Cancer disparities in African Americans. Sanford D. Markowitz, Cleveland, OH

11:45 a.m. Mitigating the biologic basis of colorectal cancer disparities. Adeyinko O. Laiyemo, Washington, DC

PROGRAM GUIDE
Independence Ballroom E-H, Meeting Level 4, Marriott Marquis DC

**Cancer Immunology for the Non-immunologist: Tutorial**

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

**Roundtable Topics:**

- **Chemokines and cancer.** Steven M. Dubinett, Los Angeles, CA
- **Innate immune signaling in cancer: New concepts.** Glen N. Barber, Miami, FL
- **The interaction of radiotherapy with immunotherapy.** Sandra DeMaria, New York, NY
- **Natural killer cells and the tumor microenvironment.** Julie Y. Djeu, Tampa, FL
- **Myeloid-derived suppressor cells.** Dmitry I. Gabrilovich, Philadelphia, PA
- **Immune targeting in breast cancer.** Leisha A. Emens, Baltimore, MD
- **Myeloid-derived suppressor cells.** Dmitry I. Gabrilovich, Philadelphia, PA
- **Inflammation and cancer.** Sergei I. Grivennikov, Philadelphia, PA
- **Immunotherapy combination strategies.** James L. Gulley, Bethesda, MD
- **Oncolytic viruses.** Howard L. Kaufman, New Brunswick, NJ
- **Brain cancer immunotherapy.** Hideho Okada, San Francisco, CA
- **IDO in cancer.** George C. Prendergast, Wynnewood, PA
- **Personalized immunotherapy for glioblastoma.** Robert M. Prins, Los Angeles, CA
- **Tumor stroma: Immunomodulatory functions and a target of immunotherapy.** Ellen Puré, Philadelphia, PA
- **Microbiome and cancer.** Laurence Zitvogel, Villejuif, France
- **Title to be announced.** Charles G. Drake, New York, NY
- **Immunology of pediatric cancers.** Crystal L. Mackall, Stanford, CA
- **Tumor-derived exosomes as potential biomarkers of cancer progression and of immune dysfunction in cancer.** Theresa L. Whiteside, Pittsburgh, PA

Ballroom C, Level 3, Washington Convention Center

**Deciphering Biomarkers and Mechanisms of Stromal-Mediated Drug Responses and Resistance**

**Chair:** Sandra S. McAllister, Boston, MA

**10:15 a.m.** Imaging reveals contributions of the microenvironment to therapy responses and resistance. Mikala Egeblad, Cold Spring Harbor, NY

**10:45 a.m.** Deciphering mechanisms of resistance to macrophage-targeted therapies.

Daniela F. Quail, Montreal, QC, Canada
11:15 a.m. Preclinical modeling to understand systemic contributions to therapeutic response and resistance. Sandra S. McAllister, Boston, MA

11:45 a.m. Understanding response and resistance to cancer therapy: Lessons learned from melanoma. Jennifer A. Wargo, Houston, TX

Room 144, Level 1, Washington Convention Center

**Robustness: Enhancing Research Reproducibility**

Chair: Jeremy Berg, Washington, DC

10:15 a.m. Title to be announced. Jeremy Berg, Washington, DC

10:45 a.m. Robustness: Enhancing research reproducibility. Chi Van Dang, Philadelphia, PA

11:15 a.m. Enhancing research reproducibility: A view from NIH. Lawrence Tabak, Bethesda, MD

Room 106, Level 2, Washington Convention Center

**Environmental Carcinogenesis: A Pathway to Prevention?**

Chair: Margaret L. Kripke, Houston, TX

10:15 a.m. Introduction: Why study environmental carcinogenesis? Margaret L. Kripke, Houston, TX

10:45 a.m. Environmental carcinogenesis: Progress, challenges, and opportunities. John R. Bucher, Research Triangle Park, NC

11:15 a.m. Endocrine disruptors and reproductive cancers. Joan V. Ruderman, Princeton, NJ

11:45 a.m. Contribution of environmental exposures to childhood cancers. Philip J. Landrigan, New York, NY

Room 150, Level 1, Washington Convention Center

**Histone Modifiers in Cancer**

Chair: Jonathan D. Licht, Gainesville, FL

10:15 a.m. Introduction. Jonathan D. Licht, Gainesville, FL

10:45 a.m. Update on histone modifications. Yingming Zhao, Chicago, IL

11:15 a.m. Histone variants and cancer. Steven Henikoff, Seattle, WA

11:45 a.m. Histone methylation and cancer. Ali Shilatifard, Chicago, IL
SATURDAY, APRIL 1

Integrating Genomic Analyses of Immunotherapy

Chair: Eliezer M. Van Allen, Brookline, MA

10:15 a.m. Somatic HLA mutations and neoantigen identification for immunotherapy analyses. Sachet A. Shukla, Boston, MA

10:45 a.m. Dynamics of genomic and neoantigen landscape during immune checkpoint blockade. Victor E. Velculescu, Baltimore, MD

11:15 a.m. Integrative clinical and genomic analysis of solid tumors treated with immune checkpoint blockade. Jeffrey E. Hammerbacher, New York, NY

11:45 a.m. Infiltrating immune cell signatures and genomic determinants of immune recognition in diverse tumors. Ash A. Alizadeh, Stanford, CA

Taming the Tumor Microenvironment in Pancreatic Cancer

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

10:15 a.m. Fibroblast heterogeneity in pancreatic cancer. David A. Tuveson, Cold Spring Harbor, NY

10:45 a.m. Pancreatic cancer matrix biology. Daniel Ohlund, Cold Spring Harbor, NY

11:15 a.m. Tissue tension: The extracellular matrix and PDAC phenotype. Valerie M. Weaver, San Francisco, CA

11:45 a.m. Immune vulnerabilities in pancreatic cancer. Robert H. Vonderheide, Philadelphia, PA

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

Applications of Proteomics and Proteogenomics in Cancer Research

Chair: Anthony Whetton, Manchester, United Kingdom

10:15 a.m. Relative quantification proteomics for cancer research. Anthony Whetton, Manchester, United Kingdom

10:45 a.m. Digging deeper: Approaches for proteogenomics analyses. Akhilesh Pandey, Baltimore, MD

11:15 a.m. Quantitative proteomics: Procedures and benefits of surveillance by selected reaction monitoring. Robert Moritz, Seattle, WA

11:45 a.m. Development and validation of quantitative mass spectrometry-based assays for cancer-related targets. Jeffrey R. Whiteaker, Seattle, WA
Room 145, Level 1, Washington Convention Center
Clinical Trials Design Workshop—Part 2: Development of Immuno-oncologic Treatments

Chair: Edith A. Perez, South San Francisco, CA
10:15 a.m.  Combination immunotherapies and clinical trials. Paul B. Chapman, New York, NY
10:45 a.m.  Title to be announced. Speaker to be announced
11:15 a.m.  Clinical and diagnostic considerations for a personalized cancer immunotherapy paradigm. Priti S. Hegde, South San Francisco, CA
11:45 a.m.  Statistical challenges in evaluating immunologic treatments for cancer. Aparna Anderson, Washington, DC

Room 202, Level 2, Washington Convention Center
Computational Analysis of Cancer

Chair: Gad Getz, Charlestown, MA
10:15 a.m.  Analysis of mutational signatures in cancer. Jaegil Kim, Cambridge, MA
10:45 a.m.  Analysis of DNA methylation in cancer. Hui Shen, Grand Rapids, MI
11:15 a.m.  Analysis of structural variations and copy number alterations in cancer. Marcin Imielinski, New York, NY
11:45 a.m.  Discovery of cancer genes. Gad Getz, Charlestown, MA

Room 207, Level 2, Washington Convention Center
High Throughput Screening: From Reagent Development to Clinical Implementation

Cochairs: Darren C. Tomlinson, Leeds, United Kingdom; Robert J. Kinders, Frederick, MD
10:15 a.m.  Novel protein reagents for target validation and studying cancer signaling pathways. Darren C. Tomlinson, Leeds, United Kingdom
10:40 a.m.  The Affimer technology platform: A novel scaffold for cancer biotherapeutics. Amrik Basran, Cambridge, United Kingdom (not eligible for CME credit)
11:05 a.m.  Phenotypic screens for developmental modulators in zebrafish: A rich ore to mine for future cancer therapeutics. Charles C. Hong, Nashville, TN
11:30 a.m.  Challenges in application of quantitative high-content pharmacodynamic extraction assays for MET activation. Apurva K. Srivastava, Frederick, MD
11:45 a.m.  PD analysis of MET signaling in fixed tissue specimens by quantitative multiplex immunofluorescence and concordance with extraction assays. Tony Navas, Frederick, MD
12:05 p.m.  Summary. Robert J. Kinders, Frederick, MD
12:10 p.m.  General discussion

PROGRAM GUIDE 61
SATURDAY, APRIL 1

● PROFESSIONAL ADVANCEMENT SESSION
12:00 p.m.–5:00 p.m.

Constitution Ballroom A-B, Level 3B, Grand Hyatt Washington
Twentieth Annual Grant Writing Workshop, Organized by
the Associate Member Council (AMC)
(not eligible for CME credit)

Introduction: Message from a past attendee. Michael S. Rogers, Boston, MA

Constructing a strong career development proposal. Javed Khan, Bethesda, MD

Developing a compelling scientific argument and structuring your specific aims. Danny R. Welch, Kansas City, KS

Mock study section chair. Ann Richmond, Nashville, TN

Responding to proposal criticisms and planning for resubmission. John M. Maris, Philadelphia, PA

Roundtable Mentors: Ethan Dmitrovsky, Houston, TX
Mien-Chie Hung, Houston, TX
Javed Khan, Bethesda, MD
John M. Maris, Philadelphia, PA
Laura Pasqualucci, New York, NY
Ann Richmond, Nashville, TN
Michael S. Rogers, Boston, MA
Lisa B. Signorello, Bethesda, MD
Dan Theodorescu, Aurora, CO
Danny R. Welch, Kansas City, KS
Dihua Yu, Houston, TX
Jean J. Zhao, Boston, MA

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

Room 143, Level 1, Washington Convention Center
Understanding Mechanism-Based, Cardiovascular Adverse Events
Associated with Immune Checkpoint Blockade: Implications for
Prevention and Management

Cochairs: Laleh Amiri-Kordestani, Silver Spring, MD; Javid M. Moslehi, Nashville, TN

Speakers: David Feltquate, New York, NY
Shiv Pillai, Cambridge, MA
Suzanne L. Topalian, Baltimore, MD

Moderator: George D. Demetri, Boston, MA
EDUCATIONAL SESSIONS • 1:00 p.m.–3:00 p.m.

Room 150, Level 1, Washington Convention Center
Cell Death Programs in Cancer Biology and Therapy
Chair: Douglas R. Green, Memphis, TN
1:00 p.m.   How cells die. Douglas R. Green, Memphis, TN
1:30 p.m.   Mitochondria expose cancer cell vulnerabilities. Anthony G. Letai, Boston, MA
2:00 p.m.   Ferroptosis: Iron-dependent cancer cell death. Scott Dixon, Stanford, CA
2:30 p.m.   How inflammation conditions tissue macrophage immune responses to dying cells. Michael R. Elliott, Rochester, NY

Room 151, Level 1, Washington Convention Center
Chromatin Regulation in Pediatric Cancer
Chair: Suzanne J. Baker, Memphis, TN
1:00 p.m.   Oncohistones and the epigenetic landscape of pediatric high-grade gliomas. Suzanne J. Baker, Memphis, TN
1:30 p.m.   Histone modifications in pediatric sarcomas: Implications and possibilities. Janet Shipley, Sutton, United Kingdom
2:00 p.m.   De-BAF-ling the role of SWI/SNF complex mutations in pediatric cancer development. Bernard E. Weissman, Chapel Hill, NC
2:30 p.m.   Histone methylation in pediatric leukemias: A chance to rewrite the leukemic fate? Kathrin Maria Bernt, Philadelphia, PA

Room 147, Level 1, Washington Convention Center
From Chemistry to the Clinic: Part 3: Advances in Antibody Drug Conjugates
Chair: Christopher J. O'Donnell, Groton, CT
1:00 p.m.   Enabling the next generation of calicheamicin-based antibody-drug conjugates. Russell G. Dushin, Groton, CT
1:30 p.m.   Influence of payload physiochemical properties and linker structure on antibody-drug conjugate activity. Peter S. Dragovich, South San Francisco, CA
2:00 p.m.   Expanding the payload scope and drug load of ADCs through drug-linker design. Patrick J. Burke, Bothell, WA (not eligible for CME credit)
SATURDAY, APRIL 1

Educational Sessions (cont’d)

Room 201, Level 2, Washington Convention Center

**Molecular Classification and Epigenomic Discoveries in Brain Tumors**

**Chair:** Stefan M. Pfister, Heidelberg, Germany

1:00 p.m.  **Overview on molecular brain tumor classification.** Stefan M. Pfister, Heidelberg, Germany

1:30 p.m.  **Genome-epigenome interplay in medulloblastoma.** Paul A. Northcott, Memphis, TN

2:00 p.m.  **Histone mutations in brain tumors.** Viviane Tabar, New York, NY

2:30 p.m.  **Delineating disease progression of adult glioma.** Roel Verhaak, Farmington, CT

Ballroom A-B, Level 3, Washington Convention Center

**Rationale and Design of Immune Checkpoint Combination Therapy**

**Chair:** Roy S. Herbst, New Haven, CT

1:00 p.m.  **Rational combination cancer immunotherapy: The yin and yang of immunity.** Daniel S. Chen, South San Francisco, CA

1:30 p.m.  **Combination microtherapy approaches through understanding the tumor, the host, and the microbiota.** Thomas F. Gajewski, Chicago, IL

2:00 p.m.  **Novel biologically based clinical trials using immune phenotyping: Battle immunotherapy.** Roy S. Herbst, New Haven, CT

Room 145, Level 1, Washington Convention Center

**Targeting CDKs in the Treatment of Breast Cancers**

**Chair:** Nicholas C. Turner, London, United Kingdom

1:00 p.m.  **Targeting the cell cycle for cancer treatment.** Nicholas C. Turner, London, United Kingdom

1:30 p.m.  **Transforming breast cancer treatment with CDK4/6 inhibitors.** Hope S. Rugo, San Francisco, CA

2:00 p.m.  **Biomarkers and mechanisms of resistance to CDK4/6 inhibition.** Fabrice Andre, Villejuif, France

2:30 p.m.  **CDKs beyond the cell cycle.** Jean J. Zhao, Boston, MA
Room 206, Level 2, Washington Convention Center
**Translation Control in Cancer: From Basic Science to Therapeutic Approaches**

**Chair:** Davide Ruggero, San Francisco, CA

1:00 p.m. **Translating the cancer genome one codon at a time and its therapeutic implications.** Davide Ruggero, San Francisco, CA

1:30 p.m. **The role of elf4E in cancer metastasis.** Nahum Sonenberg, Montreal, Quebec, Canada

2:00 p.m. **Targeting oncogenic translation programs.** Hans-Guido Wendel, New York, NY

2:30 p.m. **Ribosome heterogeneity in translating the genetic code.** Maria Barna, Stanford, CA

Room 152, Level 1, Washington Convention Center
**When Epidemiology and Pathology Meet: Incorporating Cutting-Edge Molecular Pathology Tools into Population Studies**

**Chair:** Alison P. Klein, Baltimore, MD

1:00 p.m. **Ultrasensitive mutation detection to enable cancer detection and treatment.** Luis A. Diaz, New York, NY

1:30 p.m. **Enabling the early detection of pancreatic cancer.** Alison P. Klein, Baltimore, MD

2:00 p.m. **Incorporating molecular pathology tools into epidemiologic studies of colorectal cancer.** Ulrike Peters, Seattle, WA

2:30 p.m. **Speaker to be announced**

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

Room 146, Level 1, Washington Convention Center
**Epigenomic Profiling Technologies**

**Chair:** Srinivasan Yegnasubramanian, Baltimore, MD

1:00 p.m. **Approaches to genome-wide DNA methylation measurement.** Srinivasan Yegnasubramanian, Baltimore, MD

1:40 p.m. **ChIP-seq for genome-wide analysis of protein-DNA binding sites.** Michael Wilson, Toronto, ON, Canada

2:20 p.m. **Analyzing genome organization using Hi-C and ChIA-PET.** Martin Aryee, Charlestown, MA
**SATURDAY, APRIL 1**  
Methods Workshops (cont’d)

Ballroom C, Level 3, Washington Convention Center  
**Immune Monitoring and Biomarker Development in the Human Model System**

**Chair:** F. Stephen Hodi, Boston, MA

1:00 p.m.  **Response to checkpoint therapy and exhausted CTL in the tumor microenvironment.** Adil I. Daud, San Francisco, CA

1:30 p.m.  **Interrogating immune environment within tumor tissue.** Kavita Dhodapkar, New Haven, CT

2:00 p.m.  **Using CyTOF to measure global immune competence.** Holden T. Maecker, Stanford, CA

2:30 p.m.  **Pathologic analyses of patient specimens in patients receiving immune checkpoint blockade.** Scott Rodig, Boston, MA

Room 202, Level 2, Washington Convention Center  
**High-Dimensional Analysis of Immune Monitoring**

**Chair:** Garry P. Nolan, Stanford, CA

1:00 p.m.  **Imaging pathology from the molecular scale on up.** Garry P. Nolan, Stanford, CA

1:30 p.m.  **High-dimensional analysis of tumor-immune interactions in FFPE biopsies using MIBI.** Michael Angelo, Palo Alto, CA

2:00 p.m.  **In situ single-cell transcriptomics with MERFISH.** Jeffrey Moffitt, Cambridge, MA

2:30 p.m.  **Single-cell transcriptional profiling by seqFISH.** Long Cai, Pasadena, CA

Room 144, Level 1, Washington Convention Center  
**Methods to Investigate the Microbiota**

**Chair:** Laurence Zitvogel, Villejuif, France

**Title to be announced.** Curtis Huttenhower, Boston, MA

**High-resolution microbiome profiling with implications for cancer research.** James R. White, Baltimore, MD

**Additional speakers to be announced**
Room 207, Level 2, Washington Convention Center

**Multimodal Imaging of Tumor Microenvironment and Immune Response**

Chair: Alex Yee-Chen Huang, Cleveland, OH

1:00 p.m. Molecular imaging and image-guided therapy: Recent developments with ultrasound and positron emission tomography. Katherine W. Ferrara, Davis, CA

1:30 p.m. Molecular and theranostic imaging of cancer. Zaver M. Bhujwalla, Baltimore, MD

2:00 p.m. Therapeutic and diagnostic targeting of the lymphatics to mediate and detect immune responses. Sunkuk Kwon, Houston, TX

2:30 p.m. High-resolution imaging of heterogeneity in the tumor microenvironment. David Entenberg, Bronx, NY

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**PROFESSIONAL ADVANCEMENT SESSION**

1:00 p.m.–3:00 p.m.

Independence Ballroom B-E, Level 5B, Grand Hyatt Washington

**WICR Professional Advancement Session: Intentional Yes and Graceful No—How to Take Charge of Your Career**

(not eligible for CME credit)

Cochairs: Lori S. Friedman, South San Francisco, CA; Cathrin Brisken, Lausanne, Switzerland

1:00 p.m. Opening remarks and introduction

1:05 p.m. Shonda Rhimes: My year of saying yes to everything (TED Talk)

1:15 p.m. Panel discussion

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

Panelists: Susan M. Galbraith, Macclesfield, United Kingdom
Karen E. Knudsen, Philadelphia, PA
Brigette B. Ma, Hong Kong, Hong Kong
Suzanne L. Topalian, Baltimore, MD
Karen H. Vousden, Glasgow, United Kingdom

2:05 p.m. Roundtable discussions with mentors (see online itinerary)
REGULATORY SCIENCE AND POLICY SESSION
3:00 p.m.–4:45 p.m.

Room 143, Level 1, Washington Convention Center
Real World Evidence in Oncology and Its Implications

Chair: Amy P. Abernethy, New York, NY

Speakers: Kassa Ayalew, Silver Spring, MD
          Sean Khozin, Silver Spring, MD
          Jeff D. Allen, Washington, DC
          Jacqueline Law, San Francisco, CA (*not eligible for CME credit*)
          Shawn Sweeney, Philadelphia, PA

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

Room 145, Level 1, Washington Convention Center
Functional Diagnostics for Precision Cancer Care

Chair: Mathew Garnett, Cambridge, United Kingdom

3:15 p.m.  Pharmacogenomic profiling using in vitro patient models. Mathew Garnett, Cambridge, United Kingdom

3:45 p.m.  Identification of personalized and subset-specific drugs for leukemia patients using ex vivo functional testing. Jeffrey W. Tyner, Portland, OR

4:15 p.m.  Personalized in vitro and in vivo cancer models to guide precision medicine. Mark A. Rubin, New York, NY

4:45 p.m.  Dynamic BH3 profiling measures primary cancer cell response to drugs without prolonged ex vivo culture. Anthony G. Letai, Boston, MA

Room 201, Level 2, Washington Convention Center
Induction of Senescence as an Anticancer Strategy

Chair: René Bernards, Amsterdam, Netherlands

3:15 p.m.  Cancer and aging: Rival demons? Judith Campisi, Novato, CA

3:45 p.m.  The bright and the dark side of cancer cell senescence. Clemens A. Schmitt, Berlin, Germany

4:15 p.m.  How senolysis inhibits tumorigenesis. Jan M. Van Deursen, Rochester, MN

4:45 p.m.  Inducing senescence in cancer cells. René Bernards, Amsterdam, Netherlands
Room 146, Level 1, Washington Convention Center

**Inflammation and Immune Cells as Modifiers of Outcome in Cancer Patients**

**Chair:** Lisa M. Coussens, Portland, OR

3:15 p.m. **Monitoring immune cell dynamics in tumors prospectively.** Lisa M. Coussens, Portland, OR

3:45 p.m. **ImmunoScore and tumor classification.** Jerome Galon, Paris, France

4:15 p.m. **Inflammation-associated genetic instability and its significance on the prognosis of colorectal cancers.** Minoru Koi, Ann Arbor, MI

4:45 p.m. **Applications of ctDNA for cancer detection and therapy.** Luis A. Diaz, New York, NY

Room 147, Level 1, Washington Convention Center

**Interpretation of Cancer Genomic Variants**

**Chair:** Nuria Lopez-Bigas, Barcelona, Spain

3:15 p.m. **Making cancer genomics data interpretable through recurrence analysis, annotation of prior knowledge, and effective visualization.** Nikolaus Schultz, New York, NY

3:45 p.m. **Community contributions to interpretation of cancer genomic variants.** Obi Lee Griffith, St. Louis, MO

4:15 p.m. **Coding and noncoding cancer variants interpretation.** Nuria Lopez-Bigas, Barcelona, Spain

4:45 p.m. **Identifying positively selected rearrangements.** Rameen Beroukhim, Boston, MA

Ballroom A-B, Level 3, Washington Convention Center

**Targeting the Tumor Microenvironment through Small-Molecule Drugs**

**Chair:** Axel Hoos, Collegeville, PA

3:15 p.m. **Reprogramming tumor-associated macrophages by targeting PI3K delta through a small-molecule approach.** Jeffery L. Kutok, Cambridge, MA

3:55 p.m. **Designing small-molecule drugs for modulating the tumor microenvironment.** Jingsong Yang, Collegeville, PA

4:35 p.m. **Adenosine antagonists for cancer immunotherapy.** Ian McCaffery, Burlingame, CA
Present and Future Directions in Drugging the Epigenome

Chair: Nilofer S. Azad, Baltimore, MD

3:15 p.m.  The complexity of epigenetics in cancer. James G. Herman, Pittsburgh, PA
3:45 p.m.  Title to be announced. Cheryl Arrowsmith, Toronto, ON, Canada
4:15 p.m.  Title to be announced. Ari M. Melnick, New York, NY
4:45 p.m.  Title to be announced. Nilofer S. Azad, Baltimore, MD

Prevention and Early Detection in the Era of Genomics

Chair: Avrum E. Spira, Boston, MA

3:15 p.m.  Novel approaches to prevention in inherited cancer syndromes. Judy E. Garber, Boston, MA
3:45 p.m.  Targeted preventive therapy in the era of precision medicine. Powel H. Brown, Houston, TX
4:15 p.m.  Novel genomic approaches for cancer interception. Avrum E. Spira, Boston, MA
4:45 p.m.  Building a precancer molecular atlas for accelerating precision prevention and early detection. Sudhir Srivastava, Rockville, MD

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

Clinical Cancer Genomic Testing: From Comprehensive Cancer Gene Panels to Whole Exome/Transcriptome/Genome Sequencing

Chair: Marc Ladanyi, New York, NY

3:15 p.m.  Detection of gene fusions in solid tumors. A. John Iafrate, Boston, MA
3:55 p.m.  The MSK-IMPACT program: Comprehensive clinical testing for cancer gene alterations and oncogenic fusions in over 15,000 patients with advanced solid cancers. Marc Ladanyi, New York, NY
4:35 p.m.  The application of integrative sequencing for precision oncology. Arul M. Chinnaiyan, Ann Arbor, MI
Ballroom C, Level 3, Washington Convention Center

New Laboratory Techniques to Monitor Tumor Genomes with Liquid Biopsies

Chair: Michael R. Speicher, Graz, Austria

3:15 p.m. Monitoring tumor heterogeneity with CTCs. Shyamala Maheswaran, Charlestown, MA
3:55 p.m. Tumor genome evolution deduced from ctDNA. Michael R. Speicher, Graz, Austria
4:25 p.m. Profiling the tumor genome in circulating extracellular vesicles (EVs). Dolores Di Vizio, Los Angeles, CA
4:45 p.m. Implementation of ctDNA as a liquid biopsy in cancer medicine. Carlos M. Caldas, Cambridge, United Kingdom

Room 206, Level 2, Washington Convention Center

State of the Art for Practical Preclinical Multiplex Biomarker Detection on Standard Tissue Sections

Chair: Angelo M. de Marzo, Baltimore, MD

3:15 p.m. Overview of session and update on analytical validation techniques for IHC and RNA in situ hybridization (including multiplex fluorescence) in tissues. Angelo M. De Marzo, Baltimore, MD
3:45 p.m. Quantitative multiplex chromogen-based immunohistochemistry. Takahiro Tsujikawa, Portland, OR
4:15 p.m. Tissue immune-profiling using multiplex immunofluorescence. Ignacio I. Wistuba, Houston, TX
4:45 p.m. Multiplex ion beam imaging (MIBI) on tissues. Michael Angelo, Palo Alto, CA

Room 202, Level 2, Washington Convention Center

Tissue-Localized Endpoints in Clinical Trials

Chair: Cornelia Liu Trimble, Baltimore, MD

3:15 p.m. High-dimensional immune monitoring of tumor tissues for cancer immunotherapy. Sacha Gnjatic, New York, NY
3:45 p.m. Targeting pathogen-induced malignancies: Lessons learned from adoptive T cell transfer for Merkel cell carcinoma. Aude G. Chapuis, Seattle, WA
4:15 p.m. Developing a biomarker platform to serve targeted therapy and immunotherapy. Keith T. Flaherty, Boston, MA
4:45 p.m. High-dimensional analyses of the mucosal microenvironment in precancerous intraepithelial cervical HPV disease. Cornelia L. Trimble, Baltimore, MD
SATURDAY, APRIL 1

MEET-THE-EXPERT SESSION • 3:30 p.m.-4:30 p.m.
Room 144, Level 1, Washington Convention Center
Why Don’t We Get More Cancer: The Tales of ECM and p53 Signaling
Mina J. Bissell, Berkeley, CA

Room 207, Level 2, Washington Convention Center
Deciphering Human Tumors by Single-Cell Expression Profiling
Itay Tirosh, Cambridge, MA

SPECIAL SESSIONS • 5:15 p.m.-6:45 p.m.
Room 207, Level 2, Washington Convention Center
Unsolved Mysteries: Why Do We Get Cancer as We Age and Why Don’t We Get More Cancer?
Chair: James V. DeGregori, Aurora, CO
Moderator: James V. DeGregori, Aurora, CO
5:15 p.m. Aging and cancer: An evolutionary perspective. James V. DeGregori, Aurora, CO
5:30 p.m. Mutations, cancer, and the telomere length paradox. Abraham Aviv, Newark, NJ
5:55 p.m. Cancer and aging: Rival demons? Judith Campisi, Novato, CA
6:20 p.m. Panel discussion

Room 202, Level 2, Washington Convention Center
Unsolved Mysteries: Why Is Pancreatic Cancer So Difficult to Treat?
Chair: Ralph H. Hruban, Baltimore, MD
Moderator: Ralph H. Hruban, Baltimore, MD
5:15 p.m. Unsolved mysteries: Why is pancreatic cancer so difficult to treat? Ralph H. Hruban, Baltimore, MD
5:30 p.m. A beginner’s guide to perplexing clinical issues in pancreatic adenocarcinoma. Margaret A. Tempero, San Francisco, CA
5:55 p.m. Scientific hurdles to beating pancreatic cancer. Christine A. Iacobuzio-Donahue, New York, NY
6:20 p.m. Panel discussion
SPECIAL SESSION • 5:30 p.m.–6:30 p.m.

Marquis Ballroom Salons 12-13, Meeting Level 2, Marriott Marquis DC
Third Annual Clinical Oncology Fellows/Junior Faculty Networking Reception
(not eligible for CME credit)
Moderator: Carlos L. Arteaga, Nashville, TN

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

Independence Ballroom B-E, Level 5B, Grand Hyatt Washington
Careers in Clinical and Translational Cancer Research
(not eligible for CME credit)
5:30 p.m. Introduction and overview. Michelle M. Le Beau, Chicago, IL
5:45 p.m. Judy E. Garber, Boston, MA
6:00 p.m. Speaker to be announced
6:15 p.m. Sandra J. Horning, San Francisco, CA
6:30 p.m. General discussion with the Mentors at the tables
7:30 p.m. Adjournment

MEET AND GREET • 6:30 p.m.–8:30 p.m.

Independence Ballroom I-F, Level 5B, Grand Hyatt Washington
New Member Networking Mixer
(not eligible for CME credit)
6:30 p.m. Invited Speaker. Michael A. Caligiuri, Columbus, OH
SUNDAY, APRIL 2

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

Room 204, Level 2, Washington Convention Center
Cancer in Africa: Where Does Our Knowledge Come From?
D. Maxwell Parkin, Oxford, United Kingdom

Ballroom A-B, Level 3, Washington Convention Center
The Cancer-Immune Set Point and the Future of Cancer Immunotherapy
Daniel S. Chen, South San Francisco, CA

East Salon A-B, Level 1, Washington Convention Center
Computational Biology in Translational Cancer Research
X. Shirley Liu, Boston, MA

Ballroom C, Level 3, Washington Convention Center
Crosstalk between VEGF and Modulators of the Immune System: Therapeutic Implications
Napoleone Ferrara, La Jolla, CA

Room 201, Level 2, Washington Convention Center
Designing Pediatric Drug Development Trials in an Era of Molecularly Targeted New Agents
Peter C. Adamson, Philadelphia, PA

Room 147, Level 1, Washington Convention Center
The Dynamic Interplay between Cancer and Aging
Norman E. Sharpless, Chapel Hill, NC

Room 152, Level 1, Washington Convention Center
Epitranscriptomic: Nucleotide Modifications in mRNA and IncRNA
Samie Jaffrey, New York, NY

Room 144, Level 1, Washington Convention Center
Evaluating the Evidence: Menopausal Hormones and Cancer
Garnet L. Anderson, Seattle, WA

Room 207, Level 2, Washington Convention Center
The Genomics of Outstanding Responders
Barry S. Taylor, New York, NY
Room 150, Level 1, Washington Convention Center
**Immunosuppressive Networks, PD-L1 Expression, and Blueprint Project**
Weiping Zou, Ann Arbor, MI

Room 146, Level 1, Washington Convention Center
**Nonessential Amino Acid Metabolism in Cancer Cells**
Karen H. Vousden, Glasgow, United Kingdom

Room 145, Level 1, Washington Convention Center
**Novel Ways to Activate NK Cells and Increase Their Specificity for Cancer Therapy**
Jeffrey S. Miller, Minneapolis, MN

Room 103, Level 1, Washington Convention Center
**Pathogenesis and Genomics of Ovarian Cancer: Converging on New Opportunities**
Ronny I. Drapkin, Philadelphia, PA

Room 151, Level 1, Washington Convention Center
**Secondary Breast Cancer: A Paradigm for Survivorship Research**
Kevin Oeffinger, Durham, NC

Room 202, Level 2, Washington Convention Center
**Tissue Heterogeneity and Molecular Pathology**
Mark E. Sherman, Rockville, MD

Room 206, Level 2, Washington Convention Center
**Understanding and Intervening in Cancer Cell Invasion**
Sara A. Courtneidge, Portland, OR

Room 143, Level 1, Washington Convention Center
**Understanding the Role of Estrogen Receptor in Breast Cancer**
Jason Carroll, Cambridge, United Kingdom
SUNDAY, APRIL 2

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

Marquis Ballroom Salons 3-4, Meeting Level 2, Marriott Marquis DC

**NIH Grants Session: Changes in Review, Funding, and Funding Opportunities at the NCI**
(not eligible for CME credit)

**Chair:** Daniel L. Gallahan, Bethesda, MD

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

● **OPENING CEREMONY**  • 8:15 a.m.–10:00 a.m.

Hall D-E, Level 2, Washington Convention Center
(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.

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

AACR President Nancy E. Davidson will highlight the dramatic advances in cancer research and today’s challenges in the cancer field.

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

• The 2017 AACR Distinguished Public Service Awards
• Recognition of the newly inducted Fellows of the AACR Academy
• The Eleventh Annual AACR Team Science Award
• The Fourteenth Annual AACR Award for Lifetime Achievement in Cancer Research
• The Eleventh Annual AACR Margaret Foti Award for Leadership and Extraordinary Achievements in Cancer Research
• The Second Annual AACR June L. Biedler Prize for Cancer Journalism

**Don’t miss this exciting event, which leads directly into the Opening Plenary Session!**
OPENING PLENARY SESSION • 10:00 a.m.–12:00 p.m.

Hall D-E, Level 2, Washington Convention Center
The Road to Cancer Cures: Discover, Predict, Prevent, and Treat
Chair: Kornelia Polyak, Boston, MA
10:00 a.m.  Introduction.  Kornelia Polyak, Boston, MA
10:01 a.m.  New approaches for finding tiny tumors: Towards early detection and treatment of ovarian cancer.  Angela M. Belcher, Cambridge, MA
10:30 a.m.  Breast cancer intratumor heterogeneity landscapes: What, when, and where.  Carlos M. Caldas, Cambridge, United Kingdom
11:00 a.m.  Earlier detection as a key to lower cancer death rates.  Bert Vogelstein, Baltimore, MD  [PL01-03]*
11:30 a.m.  New twists on cancer drug resistance.  Charles L. Sawyers, New York, NY

CLINICAL TRIALS PLENARY SESSION 1 • 12:45 p.m.–3:00 p.m.

Ballroom C, Level 3, Washington Convention Center
Precision Medicine Clinical Trials
Chair: Alice T. Shaw, Boston, MA
12:45 p.m.  Introduction
12:48 p.m.  CT001  Neratinib in HER2 or HER3 mutant solid tumors: SUMMIT, a global, multi-histology, open-label, phase 2 ‘basket’ study.  David M. Hyman, New York, NY
1:06 p.m.  Discussant to be announced
1:16 p.m.  CT002  A Phase IB study of RAF dimer inhibitor BGB-283 in patients with B-RAF or K-RAS/N-RAS mutated solid tumors.  Jayesh Desai, Melbourne, Australia
1:34 p.m.  CT003  Activity of the ERK1/2 inhibitor ulixertinib (BVD-523) in patients with BRAF and NRAS mutant melanoma.  Ryan J. Sullivan, Boston, MA
1:52 p.m.  Discussant.  Alex A. Adjei, Rochester, MN
2:02 p.m.  CT004  European pediatric precision medicine program in recurrent tumors: First results from MAPPYACTS molecular profiling trial towards AcSe-ESMART proof-of-concept study.  Birgit Geoerger, Villigeuf, France
2:17 p.m.  Discussant.  Yael P. Mosse, Philadelphia, PA
2:27 p.m.  CT005  Final results of the HERACLES trial in HER2-amplified colorectal cancer.  Salvatore Siena, Milan, Italy
2:44 p.m.  Discussant.  Rodrigo Dienstmann.  Barcelona, Spain
2:54 p.m.  Discussion

*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 2

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

AACR Publications Booth (2731), Lower Level, Washington Convention Center
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
Jose Baselga, New York, NY

○ NCI/NIH-SPONSORED SESSION • 1:00 p.m.–2:30 p.m.

Marquis Ballroom Salons 3-4, Meeting Level 2, Marriott Marquis DC
NCI-Sponsored Training Awards and Opportunities
(not eligible for CME credit)
Chair: Ming Lei, Rockville, MD
Speakers: Mark Damico, Bethesda, MD
Jonathan S. Wiest, Bethesda, MD
Susan Lim, Rockville, MD
Michael K. Schmidt, Rockville, MD

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

East Salon C, Level 1, Washington Convention Center
Artificial Intelligence-Enabled Cancer Care and Research: Potential and Challenges
Chair: Lynda Chin, Houston, TX
1:00 p.m.  Introduction. Lynda Chin, Houston, TX
1:05 p.m.  Big data and AI: Developing cognitive applications in medicine. Lynda Chin, Houston, TX
1:55 p.m.  Big mechanism: How machines read the cancer literature and build cell-signaling models. Paul Cohen, Arlington, VA
1:30 p.m.  Deep learning in medicine: An introduction and applications to next-generation sequencing and disease diagnostics. Mark DePristo, Mountain View, CA (not eligible for CME credit)
2:20 p.m.  PathAI: Advancing medicine with intelligent pathology. Andrew H. Beck, Cambridge, MA
Room 147, Level 1, Washington Convention Center
Lung Cancer Outcomes: Clinical Implications for Smoking
Chair: Peter G. Shields, Columbus, OH
1:00 p.m. Introduction
1:05 p.m. Precision medicine: Lung biomarkers. Curtis C. Harris, Bethesda, MD
1:35 p.m. Reducing harm by targeting the addictiveness of combusted tobacco products through regulated reductions in nicotine content. Eric Donny, Pittsburgh, PA [SY01-03]*
2:05 p.m. Smoking and lung cancer: Implications for pathogenesis, prevention, and treatment. Roy S. Herbst, New Haven, CT

Ballroom A-B, Level 3, Washington Convention Center
Cancer Metabolism: Moving towards the Clinic
Chair: Ralph J. Deberardinis, Dallas, TX
1:00 p.m. Introduction
1:05 p.m. Understanding metabolic phenotypes in human tumors. Ralph J. Deberardinis, Dallas, TX [SY02-01]*
1:35 p.m. Exploring the lung cancer metabolome, in vivo and ex vivo, for individualized medicine. Teresa W. Fan, Lexington, KY [SY02-02]*
2:05 p.m. Imaging cancer metabolism in patients: FDG PET and beyond. David A. Mankoff, Philadelphia, PA [SY02-03]*

Hall D-E, Level 2, Washington Convention Center
Emerging Targets in Immunotherapy
Chair: Andrew D. Weinberg, Portland, OR
1:00 p.m. Introduction
1:05 p.m. OX40 agonists: Past, present, and future. Andrew D. Weinberg, Portland, OR
1:35 p.m. Preclinical assessment of JTX-2011, an agonist antibody targeting ICOS, supports evaluation in ICONIC clinical trial. Jennifer S. Michaelson, Cambridge, MA [SY03-02] (not eligible for CME credit)
2:05 p.m. Isotype choice for antibody immunotherapy: Lessons from engineering anti-CD73 and anti-TIGIT therapeutic antibodies. Bryan C. Barnhart, Redwood City, CA

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings (the abstract number is listed in brackets above).
Room 146, Level 1, Washington Convention Center
Genetic Predisposition to Cancer: Implications for Risk Management and Clinical Care

Chair: Peter Kraft, Boston, MA

1:00 p.m. Introduction

1:05 p.m. Rare and common risk alleles: Cancer prevention and care for individuals and populations. Peter Kraft, Boston, MA

1:35 p.m. The evolving landscape of cancer susceptibility associated with high-penetrance gene mutations. Katherine L. Nathanson, Philadelphia, PA

2:05 p.m. Three components of inherited cancer risk and their implications in personalized cancer screening. Jianfeng Xu, Evanston, IL [SY04-03 ]*

Room 145, Level 1, Washington Convention Center
Lung Cancer Disparities and Behavioral Strategies for Equity

Chair: Robert A. Winn, Chicago, IL

1:00 p.m. Introduction

1:05 p.m. Landscape of disparities in lung cancer care. M. Patricia Rivera, Chapel Hill, NC

1:35 p.m. Lung cancer screening in a high-risk rural Appalachian population. Kathryn Cardarelli, Lexington, KY

2:05 p.m. The landscape of tobacco disparities: Initiation, addiction, and cessation. Enid Neptune, Baltimore, MD

Room 206, Level 2, Washington Convention Center
Myelomonocytic Cells and Stroma as Therapeutic Targets

Chair: Alberto Mantovani, Rozzano, Milano, Italy

1:00 p.m. Introduction

1:05 p.m. Tumor-associated myelomonocytic cells as therapeutic targets. Alberto Mantovani, Rozzano, Milano, Italy [SY06-01]*

1:35 p.m. Macrophage-targeted cancer immunotherapy. Carola Ries, Penzberg, Germany [SY06-02]*

2:05 p.m. Reprogramming the tumor microenvironment to improve responses to therapy. David G. Denardo, St. Louis, MO [SY06-03 ]*
Room 207, Level 2, Washington Convention Center

**Obesity, Inflammation, and the Adipose Microenvironment in Cancer**

**Chair:** Liza Makowski, Chapel Hill, NC

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

1:05 p.m. **Obesity and metabolic reprogramming of macrophages in triple-negative breast cancer.** Liza Makowski, Chapel Hill, NC

1:35 p.m. **Adipose stromal cells: A player in cancer progression and a therapeutic target.** Mikhail Kolonin, Houston, TX [SY07-02]*

2:05 p.m. **Breast adipose inflammation: A silent killer.** Andrew J. Dannenberg, New York, NY

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

Room 202, Level 2, Washington Convention Center

**High-Dimensional Tumor Imaging**

**Chair:** Robert J. Gillies, Tampa, FL

1:00 p.m. **Tumor immune-pathology from the molecular scale on up.** Garry P. Nolan, Stanford, CA

1:30 p.m. **To image and imagine: Molecular imaging and theranostics of cancer.** Zaver M. Bhujwalla, Baltimore, MD

2:00 p.m. **Imaging tumor habitats: Life at the edge.** Robert J. Gillies, Tampa, FL

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings (the abstract number is listed in brackets above).
RECENT ADVANCES IN ORGAN SITE RESEARCH
1:00 p.m.–2:45 p.m.

Room 150, Level 1, Washington Convention Center
Immunotherapy of Lymphoid Malignancies

Chair: Margaret A. Shipp, Boston, MA

1:00 p.m.  Targetable genetic bases of immune evasion in lymphoma. Margaret A. Shipp, Boston, MA

1:30 p.m.  The Myc oncogene is a master regulator of the immune response. Dean W. Felsher, Stanford, CA

2:00 p.m.  Understanding success and failure of T-cell therapy for B-cell malignancies. Stanley R. Riddell, Seattle, WA

Room 151, Level 1, Washington Convention Center
Pediatric Brain Tumors: Developmental Connections to Disease Pathogenesis

Chair: Suzanne J. Baker, Memphis, TN

1:00 p.m.  Tracking brain tumors with regional accents. Richard J. Gilbertson, Cambridge, United Kingdom

1:30 p.m.  Neuronal activity drives pediatric high-grade glioma growth. Michelle L. Monje, Stanford, CA

2:00 p.m.  Oncohistones: Genetic and epigenetic drivers of pediatric high-grade glioma. Suzanne J. Baker, Memphis, TN

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

Room 152, Level 1, Washington Convention Center
A Precancer Genome Atlas

Chair: Avrum E. Spira, Boston, MA

1:00 p.m.  Molecular determinants of lung premalignancy. Avrum E. Spira, Boston, MA

1:30 p.m.  Cancer interception in time and space: Why we need a PCGA. Brian J. Reid, Seattle, WA

2:00 p.m.  Clonal hematopoiesis as a precancerous state. Rafael Bejar, Seattle, WA
Room 144, Level 1, Washington Convention Center

**Periodontal Disease, Oral Bacteria, and Orodigestive Cancers**

**Chair:** Jiyoung Ahn, New York, NY

1:00 p.m. **Periodontal disease, microbiota dissemination, and cancer.** Dominique S. Michaud, Boston, MA

1:30 p.m. **Oral microbiome, alcohol and smoking, and risk of orodigestive cancers.** Jiyoung Ahn, New York, NY

2:00 p.m. **Oral health: Associations with oral HPV natural history and disease.** Anna R. Giuliano, Tampa, FL

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**REGULATORY SCIENCE AND POLICY SESSION**

1:00 p.m.–2:45 p.m.

Room 143, Level 1, Washington Convention Center

**Tables Turned: A Conversation with the Press about the Future of Cancer Research and Treatment**

**Chair:** Richard Pazdur, Silver Spring, MD

**Speakers:** Adam Feuerstein, New York, NY
Matthew Herper, New York, NY
Laurie McGinley, Washington, DC
Meg Tirrell, Englewood, NJ
DRUG DEVELOPMENT TRACK: SPECIAL SESSION
1:00 p.m.–3:00 p.m.

East Salon A-B, Level 1, Washington Convention Center

New Drugs on the Horizon 1
(not eligible for CME credit)

Cochairs: Melissa M. Vasbinder, Lexington, MA; Saul H. Rosenberg, North Chicago, IL

1:00 p.m. The discovery and preclinical characterization of AMG 176: A first-in-class Mcl-1 inhibitor in clinical development for multiple myeloma. Paul E. Hughes, Thousand Oaks, CA [DDT01-01]*

1:24 p.m. AZD5991: A potent and selective macrocyclic inhibitor of Mcl-1 for treatment of hematologic cancers. Alexander W. Hird, Waltham, MA [DDT01-02]*

1:48 p.m. ABBV-621: A best-in-class TRAIL-receptor agonist fusion protein that enhances optimal clustering for the treatment of solid and hematologic tumors. Susan E. Morgan-Lappe, North Chicago, IL [DDT01-03]*

2:12 p.m. Discovery and development of H3B-6545: A novel, oral, selective estrogen receptor covalent antagonist (SERCA) for the treatment of breast cancer. Peter G. Smith, Cambridge, MA [DDT01-04]*

2:36 p.m. Durable efficacy and anticancer immunity following intratumoral administration of a combination of messenger RNAs encoding the costimulatory molecule OX40L and the cytokines IL-36g and IL-23. Josh P. Frederick, Charlestown, MA

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

Constitution Ballroom C-E, Level 3B, Grand Hyatt Washington

Forging Successful Partnerships with Industry, Organized by the Associate Member Council (AMC)
(not eligible for CME credit)

What is an industry-academia partnership or collaboration? William Pao, Basel, Switzerland

How to initiate an industry collaboration as an academic researcher. William C. Hahn, Boston, MA

Understanding the cultures to optimize the chances of success. William N. Hait, Raritan, NJ

Panel discussion

Panel Moderator: Renier J. Brentjens, New York, NY

Networking activity

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings (the abstract number is listed in brackets above).
POSTER SESSIONS • 1:00 p.m.-5:00 p.m.

Exhibit Hall, Lower Level, Washington Convention Center
(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/AACR2017), and the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

EXPERIMENTAL AND MOLECULAR THERAPEUTICS
Section 1  Alternative Small-Molecule Therapies
Section 2  Antibodies, Bispecifics, and Antibody-Drug Conjugates
Section 3  Antibody Technology
Section 4  Gene Expression of Drug Resistance
Section 5  Novel Agents
Section 6  Targeting the PI3K Pathway
Section 7  Tumor Microenvironment in Drug Development

Cancer Chemistry
Section 8  Basic and Applied Nanotechnologies and Therapeutic Approaches
Section 9  Proteomics and Mass Spectrometry 1

Prevention Research
Section 10  Diet and Cancer

Epidemiology
Section 12  Descriptive Epidemiology Including Trends in Incidence and Prognosis

Molecular and Cellular Biology/Genetics
Section 13  Cell Cycle Checkpoint and Progression
Section 14  Cell Growth Signaling Pathways 1
Section 15  Cell Growth Signaling Pathways 2
Section 16  Genomic Analyses across Cancer Types
Section 17  Genomic Screening for Cancer Dependencies and Drug Response
Section 18  Metabolic Pathways in Cancer
Section 19  MicroRNA Regulation of Cancer Biology 1
Section 21  Molecular Carcinogenesis and Chromosomal Alternations
Section 22  Oncogenic Growth Factors and Signal Transducers
Section 36  Late-Breaking Research: Molecular and Cellular Biology 1
SUNDAY, APRIL 2  

**Bioinformatics and Systems Biology**
- Section 23: Bioinformatics and Analysis for Therapy and Immune System
- Section 34: Late-Breaking Research: Bioinformatics and Systems Biology

**Scientist↔Survivor Program**
- Section 24: Advocates Poster Session 1

**Immunology**
- Section 25: Checkpoints 1
- Section 26: T-cell Immunity to Cancer: New Progress
- Section 27: Tumor Antigens and Adaptive Immunity

**Clinical Research**
- Section 28: Checkpoint Inhibitor and Prognostic Biomarkers
- Section 29: Childhood Cancer Clinical Translational Research
- Section 30: Early Detection
- Section 31: Molecular Diagnostics
- Section 32: Special Populations/Biostatistics in Clinical Trials

**Tumor Biology**
- Section 37: Angiogenesis and Vascular Biology 1
- Section 38: Cell Culture and Animal Models of Cancer 1
- Section 39: Cellular Responses to Ionizing Radiation
- Section 40: Epithelial to Mesenchymal Transitions in Metastasis
- Section 41: Imaging Cancer Immunotherapy, Tumor Microenvironment, and Other Aspects of Tumor Biology
- Section 42: Migration and Invasion 1
- Section 43: Stem Cell Heterogeneity
- Section 44: Tumor Microenvironment 1

**SPECIAL SESSION • 1:15 p.m.–1:45 p.m.**
AACRcentral Amphitheater (Booth 1125), Lower Level, Washington Convention Center

**Molecular Epidemiology Working Group (MEG) Networking Session with Early-Career Researchers, Part 1: Meet the MEG Leadership**
(not eligible for CME credit)

**Chair:** Melissa L. Bondy, Houston, TX  
**Past Chair:** Susan E. Hankinson, Amherst, MA  
**Chair-Elect:** Ellen L. Goode, Rochester, MN
MEET AND GREETS • 2:00 p.m.–4:00 p.m.

AACRcentral (Booth 1125), MICR Resource Center, Lower Level, Washington Convention Center

**Minorities in Cancer Research Council Meet and Greet**

(not eligible for CME credit)

**Chair:** Rick A. Kittles, Tucson, AZ

**Past Chair:** Edith A. Perez, South San Francisco, CA

**Chair-Elect:** John M. Carethers, Ann Arbor, MI

**Council Members:**
- Lisa L. Baumbach-Reardon, Phoenix, AZ
- Claudia R. Baquet, Columbia, MD
- Laura Fejerman, Berkeley, CA
- Christopher S. Lathan, Boston, MA
- Beverly D. Lyn-Cook, Jefferson, AR
- Coleman K. Obasaju, Indianapolis, IN
- Brian M. Rivers, Atlanta, GA
- Sanya A. Springfield, Bethesda, MD
- John H. Stewart, Durham, NC
- Robert A. Winn, Chicago, IL

AACRcentral (Booth 1125), WICR Resource Center, Lower Level, Washington Convention Center

**Women in Cancer Research Council Meet and Greet**

(not eligible for CME credit)

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

**Past Chair:** Victoria M. Richon, Lexington, MA

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

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

**Council Members:**
- Cathrin Brisken, Lausanne, Switzerland
- Caroline Dive, Manchester, United Kingdom
- Lori S. Friedman, South San Francisco, CA
- S. Percy Ivy, Rockville, MD
- Brigette B. Ma, Hong Kong, Hong Kong
- Lisa A. Newman, Detroit, MI
- Morag Park, Montréal, Quebec, Canada
- Kornelia Polyak, Boston, MA
SUNDAY, APRIL 2

AACR Central Amphitheater (Booth 1125), Lower Level, Washington Convention Center

Meet the AACR Foundation: Learn More about The Dr. Bayard D. Clarkson Legacy Society
(not eligible for CME credit)

Moderator: Anizia Karmayzn, Philadelphia, PA

• NCI/NIH-SPONSORED SESSION • 2:45 p.m.—4:15 p.m.

Marquis Ballroom Salons 3-4, Meeting Level 2, Marriott Marquis DC
The NCI RAS Initiative at the Frederick National Laboratory for Cancer Research
(not eligible for CME credit)

Speakers: Frank McCormick, San Francisco, CA
Frederick Streitz, Livermore, CA
Andrew G. Stephen, Frederick, MD
Frantz L. Jean-Francois, Frederick, MD
Thomas J. Turbyville, Frederick, MD

• MEET THE RESEARCH ICON • 3:00 p.m.—3:30 p.m.

AACR Central Amphitheater (Booth 1125), Lower Level, Washington Convention Center
Meet the Research Icon: Bruce M. Alberts, PhD, Organized by the Associate Member Council (AMC)
(not eligible for CME credit)

Bruce M. Alberts, San Francisco, CA

• MEET AND GREET • 3:00 p.m.—4:00 p.m.

AACR Publications Booth (2731), Lower Level, Washington Convention Center
Meet the Editor-in-Chief of Clinical Cancer Research: Keith T. Flaherty, MD
(not eligible for CME credit)

Keith T. Flaherty, Boston, MA
PROFESSIONAL ADVANCEMENT SESSION
3:00 p.m.–4:30 p.m.

Room 204, Level 2, Washington Convention Center
Careers in Science Policy and Advocacy: Industry, Government, and Nonprofit Organizations, Organized by the Associate Member Council (AMC) (not eligible for CME credit)

Introduction

Defining science policy. George D. Demetri, Boston, MA

From inside the lab to inside the Beltway: Careers in science policy. Carrie D. Wolinetz, Bethesda, MD

Career exploration and panel discussion

Panelists: Anna D. Barker, Scottsdale, AZ
George D. Demetri, Boston, MA
Mohamad A. Hussein, Summit, NJ
Tatiana M. Prowell, Silver Spring, MD
Carrie D. Wolinetz, Bethesda, MD

REGULATORY SCIENCE AND POLICY SESSION
3:00 p.m.–4:45 p.m.

Room 143, Level 1, Washington Convention Center
Regulatory Considerations for Utilizing Liquid Biopsies in Drug and Diagnostic Development

Cochairs: Pasi A. Jänne, Boston, MA; Gideon Blumenthal, Silver Spring, MD; Reena Philip, Silver Spring, MD

Speakers: Abraham Tzou, Silver Spring, MD
Suzanne Jenkins, Cheshire, United Kingdom (not eligible for CME credit)
Gary J. Kelloff, Rockville, MD
Walter H. Koch, Pleasanton, CA (not eligible for CME credit)
Howard Scher, New York, NY
Phil Stephens, Cambridge, MA (not eligible for CME credit)
AmirAli Talasaz, Redwood City, CA
**SUNDAY, APRIL 2**

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

Ballroom C, Level 3, Washington Convention Center

**Breast Cancer, Ovarian Cancer, and Glioblastoma Clinical Trials**

**Chair:** Funda Meric-Bernstam, Houston, TX

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

3:05 p.m.  **CT007**  Tumor treating fields added to standard chemotherapy in newly diagnosed glioblastoma (GBM): Final results of a randomized, multi-center, phase III trial. Roger Stupp, Zurich, Switzerland and Chicago, IL

3:20 p.m.  **CT008**  Phase I study of the alpha specific PI3-Kinase inhibitor BYL719 and the poly (ADP-Ribose) polymerase (PARP) inhibitor olaparib in recurrent ovarian and breast cancer: Analysis of the dose escalation and ovarian cancer expansion cohort. Panagiotis A. Konstantinopoulos, Boston, MA

3:35 p.m.  **CT009**  Targeting MUC16 with the THIOMAB™-drug conjugate DMUC4064A in patients with platinum-resistant ovarian cancer: A Phase I escalation study. Joyce F. Liu, Boston, MA

3:50 p.m.  **CT010**  Efficacy results based on PIK3CA status in BELLE-3: A Phase 3 study of buparlisib (BKM120) + fulvestrant in postmenopausal women with aromatase inhibitor-treated, HR+/HER2- ABC after progression on an mTOR inhibitor. Ruth O’Rega, Madison, WI

4:05 p.m.  **CT011**  Circulating tumor DNA (ctDNA) sequencing for HER2 mutation (HER2mut) screening and response monitoring to neratinib in metastatic breast cancer (MBC). Cynthia Ma, St. Louis, MO

4:20 p.m.  **CT012**  Novel effect of tamoxifen therapy: Disruption of ER-p53 interaction leading to altered gene expression profile in human breast tumors. Gokul M. Das, Buffalo, NY

4:35 p.m.  **CT013**  NSABP FB-10: Phase Ib dose-escalation trial evaluating trastuzumab emtansine (T-DMI) with neratinib (N) in women with metastatic HER2+ breast cancer (MBC). Samuel A. Jacobs, Pittsburgh, PA

4:50 p.m.  **Discussion**
CLINICAL TRIALS PLENARY SESSION 2 • 3:00 p.m.–5:15 p.m.

Hall D-E, Level 2, Washington Convention Center

Immuno-oncology Biomarkers in Clinical Trials

Chair: Thomas F. Gajewski, Chicago, IL

3:00 p.m. Introduction

3:03 p.m. CT017 First-in-human PET imaging with the PD-L1 antibody $^{89}$Zr-atezolizumab. Frederike Bensch, Groningen, Netherlands

3:26 p.m. Discussant. David A. Mankoff, Philadelphia, PA

3:36 p.m. CT018 Intratumor and peripheral Treg modulation as a pharmacodynamic biomarker of the GITR agonist antibody TRX-518 in the first in-human trial. Roberta Zappasodi, New York, NY

3:55 p.m. Discussant. Drew M. Pardoll, Baltimore, MD

4:05 p.m. CT019 Primary results from ZUMA-1: A pivotal trial of axicabtagene ciloleucel (axicel; KTE-C19) in patients with refractory aggressive non-Hodgkin lymphoma (NHL). Frederick L. Locke, Tampa, FL

4:14 p.m. CT020 Immune signatures of cytokine release syndrome and neurologic events in a multicenter registrational trial (ZUMA-1) in subjects with refractory diffuse large B cell lymphoma treated with axicabtagene ciloleucel (KTE-C19). Frederick L. Locke, Tampa, FL

4:24 p.m. Discussant to be announced

4:34 p.m. CT021 Tumor-associated immune cell PD-L1 expression and peripheral immune profiling: Analyses from CheckMate 141. Robert L. Ferris, Pittsburgh, PA

4:43 p.m. CT022 Evaluation of oral microbiome profiling as a response biomarker in squamous cell carcinoma of the head and neck: Analyses from CheckMate 141. Robert L. Ferris, Pittsburgh, PA

4:53 p.m. Discussant. Mario Sznol, New Haven, CT

5:03 p.m. Discussion
SUNDAY, APRIL 2

DRUG DEVELOPMENT TRACK: SPECIAL SESSION
3:00 p.m.–5:00 p.m.

East Salon A-B, Level 1, Washington Convention Center
New Drugs on the Horizon 2

Cochairs: Cynthia Seidel-Dugan, Belmont, MA; Indrawan J. Mcalpine, San Diego, CA

3:00 p.m.  Discovery of GDC-0077, a highly isoform selective inhibitor of PI3Kα that promotes selective loss of mutant-p110α. Steven T. Staben, Emerald Hills, CA [DDT02-01]*

3:24 p.m.  SGN-2FF: A novel small molecule inhibitor of fucosylation with preclinical antitumor activity through multiple immune mechanisms. Stephen C. Alley, Bothell, WA [DDT02-02]*

3:48 p.m.  PRMT5 inhibitor: Novel clinical agent with therapeutic potential in heme and solid cancers. Olena Barbash, Collegeville, PA

4:12 p.m.  A novel PRMT5 inhibitor with potent in vitro and in vivo activity in preclinical lung cancer models. Dirk Brehmer, Beerse, Belgium [DDT02-04]*

4:36 p.m.  BLU-285: A potent and highly selective inhibitor designed to target malignancies driven by PDGFRA and KIT mutations. Erica K. Evans, Cambridge, MA

MINISYMPOSIA  •  3:00 p.m.–5:00 p.m.

Room 151, Level 1, Washington Convention Center
Bioinformatics and Systems Biology
Computational Cancer Biology

Cochairs: Rachel Karchin, Baltimore, MD; Christina Leslie, New York, NY

3:00 p.m.  Introduction

3:05 p.m.  971  Genome directed diagnosis informs clinical cancer care. Alexander Penson, New York, NY

3:20 p.m.  972  Improving preclinical cancer pharmacogenomics with novel drug sensitivity metrics based on growth rate inhibition. Marc Hafner, Boston, MA

3:35 p.m.  973  Methylation accurately predicts age of cancer onset in patients with Li Fraumeni Syndrome. Benjamin M. Brew, Toronto, ON, Canada

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings (the abstract number is listed in brackets above).
### Cancer Chemistry
**Novel Therapeutic Targets, Molecules, and Approaches for the Treatment of Cancer**

**Cochairs:** Christian Rommel, Basel, Switzerland; Andrew J. Phillips, Cambridge, MA

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>3:05 p.m.</td>
<td>978  <strong>Spatial-temporal delivery of OX40 agonist and PD-1 inhibitor using nanoparticles improves therapeutic efficacy of cancer immunotherapy.</strong> Yu Mi, Chapel Hill, NC</td>
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<td>3:20 p.m.</td>
<td>979  <strong>Discovery of the JAK1 selective kinase inhibitor AZD4205.</strong> Jason G. Kettle, Stockport, United Kingdom</td>
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<td>3:35 p.m.</td>
<td>980  <strong>BAY-299, a novel chemical probe for in-depth analysis of the function of the bromodomain proteins BRPF2 and TAF1.</strong> Léa Bouché, Berlin, Germany</td>
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<td>3:50 p.m.</td>
<td>981  <strong>The design and characterization of a selective TRIM24 degrader.</strong> Lara N. Gechijian, Boston, MA</td>
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<td>4:05 p.m.</td>
<td>982  <strong>Development of homogeneous dual-drug ADCs: Application to the codelivery of auristatin payloads with complementary antitumor activities.</strong> Matthew R. Levengood, Bothell, WA</td>
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<tr>
<td>4:20 p.m.</td>
<td>983  <strong>Identification of potent, highly selective and orally available ATR inhibitor BAY 1895344 with favorable PK properties and promising efficacy in monotherapy and combination in preclinical tumor models.</strong> Ulrich T. Luecking, Berlin, Germany</td>
</tr>
<tr>
<td>4:35 p.m.</td>
<td>984  <strong>Identification of potent and highly selective PTEFb inhibitor BAY 1251152 for the treatment of cancer: From p.o. to i.v. application via scaffold hops.</strong> Ulrich T. Luecking, Berlin, Germany</td>
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SUNDAY, APRIL 2

East Salon C, Level 1, Washington Convention Center

Clinical Research

Cancer Survivorship and Quality of Life

Cochairs: Tara Sanft, Chicago, IL; Jack F. Whelan, Andover, MA

3:00 p.m. Introduction

3:05 p.m.  985 Adipose tissue inflammation in breast cancer survivors: Effects of a 16-week aerobic and resistance exercise intervention. Christina M. Dieli-Conwright, Los Angeles, CA

3:20 p.m.  986 Targeting nicotinic acetylcholine receptors for the prevention and reversal of chemotherapy-induced peripheral neuropathy. S. Lauren Kyte, Richmond, VA

3:35 p.m.  987 Unanticipated cardiotoxicity due to targeted anticancer therapy in hematologic malignancies patients: Natural history and risk factors. Chintan Shah, Gainesville, FL

3:50 p.m.  988 Effect of a supervised exercise intervention on sarcopenic obesity and metabolic syndrome in prostate cancer patients: A randomized pilot study. Jacqueline L. Kiwata, Los Angeles, CA

4:05 p.m.  989 Do physician-reported toxicities accurately reflect patient-reported symptom burden? An analysis of ESAS and CTCAE for patients with lung cancer. Hsiang-Hsuan M. Yu, Tampa, FL

4:20 p.m.  990 Patterns of racial disparities in health-related quality of life among colorectal cancer patients and relationship with survival. Michelle A. T. Hildebrandt, Houston, TX

4:35 p.m.  991 Association of high-sensitivity C-reactive protein with health-related quality of life among breast cancer survivors. Hyun Jeong Cho, Seoul, Republic of Korea

Room 145, Level 1, Washington Convention Center

Clinical Research

Laboratory and Computational Tools to Enhance Clinical Decision Making

3:00 p.m. Introduction

3:05 p.m.  992 Patient-derived tumor organoids of neuroendocrine prostate cancer. Loredana Puca, New York, NY

3:20 p.m.  993 Diagnostic leukapheresis (DLA): Molecular characterization and organoid culture of circulating tumor cells (CTC) from metastatic castration resistant prostate cancer (mCRPC). Maryou B. Lambros, London, United Kingdom

3:35 p.m.  994 Diagnosing leukemia structural variations via a novel genome mapping approach. Christopher Pool, Hershey, PA
3:50 p.m.  995  Impact of molecular subtypes on predicting chemotherapy response and survival in muscle invasive bladder cancer. Woonyoung Choi, Houston, TX

4:05 p.m.  996  A translational phosphoproteomic approach to study differences in \textit{KRAS} signaling in pancreatic, colorectal, and lung cancers. Udai Banerji, London, United Kingdom

4:20 p.m.  997  Impact of a personalized medicine research program (PMRP), using targeted tumor profiling and a cloud based clinical trials matching platform, on clinical decision-making. Thomas D. Brown, Seattle, WA

4:35 p.m.  998  OPeN: The oncology precision network data sharing consortium. Lincoln Nadauld, St. George, UT

Room 206, Level 2, Washington Convention Center
Endocrinology
\textbf{Estrogen Receptor in Cancer Progression and Therapies}

\textbf{Cochairs:} Adrian V. Lee, Pittsburgh, PA; Sheila A. Stewart, St. Louis, MO

3:00 p.m.  Introduction

3:05 p.m.  999  ESR1 mutations activate and confer hormone resistance via distinct mechanisms. Weiyi Toy, New York, NY

3:20 p.m.  1000  Estrogen receptor coactivator MED1 in breast tumorigenesis and therapeutic resistance. Xiaoting Zhang, Cincinnati, OH

3:35 p.m.  1001  ESR1 mutations confer novel metastatic functions in genome-edited breast cancer models. Zheqi Li, Pittsburgh, PA

3:50 p.m.  1002  An epigenetic strategy to degrade the estrogen receptor in breast cancer. Cynthia A. Zahnow, Baltimore, MD

4:05 p.m.  1003  Extraneural ER \textsuperscript{\alpha}-mTOR signaling rewires cancer cell metabolism during obesity-associated breast cancer. Zeynep Madak Erdogan, Urbana, IL

4:20 p.m.  1004  LDLR knockdown reduces the growth of Her2 overexpressing breast cancer in mouse models of hyperlipidemia. Emily J. Gallagher, New York, NY

4:35 p.m.  1005  Interaction between the estrogen receptor and fibroblast growth factor receptor pathways in non-small cell lung cancer. Laura P. Stabile, Pittsburgh, PA

\textbf{PROGRAM GUIDE} 95
Room 152, Level 1, Washington Convention Center
Experimental and Molecular Therapeutics
Novel Mechanisms of Drug Resistance

Cochairs: John C. Schmitz, Pittsburgh, PA; John S. Lazo, Charlottesville, VA

3:00 p.m. Introduction

3:05 p.m. 1006 Drug-tolerant persister cancer cells are vulnerable to GPX4 inhibition. Matthew J. Hangauer, San Francisco, CA

3:20 p.m. 1007 SHP2 inhibition restores sensitivity to ALK inhibition in resistant ALK-rearranged non-small cell lung cancer (NSCLC). Leila Dardaei, Charlestown, MA

3:35 p.m. 1008 Gain-of-function kinase library screen identifies FGFR1 amplification as a mechanism of resistance to antiestrogens and CDK4/6 inhibitors in ER+ breast cancer. Luigi Formisano, Nashville, TN

3:50 p.m. 1009 Comprehensive ctDNA sequencing reveals mechanisms of resistance to rociletinib in EGFR T790M-mutated NSCLC. Elena Helman, Redwood City, CA (not eligible for CME credit)

4:05 p.m. 1010 Genomic analysis of recurrent ovarian cancer in patient-derived xenografts treated with platinum and taxane chemotherapy. Elizabeth Stover, Boston, MA

4:20 p.m. 1011 RNAseq analysis obtained from on-purpose tumor biopsies of patients in the MATCH-R trial allows the identification of potential mechanisms of acquired resistance to PD(L)1 therapies. Loic Verlingue, Villejuif, France

4:35 p.m. 1012 Patient-derived tumor microenvironment models uncover nonautonomous TKI resistance mechanisms in NSCLC. Haichuan Hu, Charlestown, MA

Room 146, Level 1, Washington Convention Center
Immunology
Novel Insights into Mechanisms of Response to Immunotherapy

Cochairs: Patrick Hwu, Houston, TX; Lisa M. Coussens, Portland, OR

3:00 p.m. Introduction

3:05 p.m. 1013 Location matters: Unique functional and transcriptional, but not flow cytometric, characteristics of intratumoral FOXP3+ Tregs vs. Tregs from other sites of patients with lung tumors. Tatiana Akimova, Philadelphia, PA

3:20 p.m. 1014 Selective impairment of intratumoral regulatory T cells by targeting Ezh2 enhances cancer immunity. David Q. Wang, San Francisco, CA
3:35 p.m.  1015  Directionality of T-cell-mediated cross-protection against the same tumor in lungs versus skin. Masaki Terabe, Bethesda, MD

3:50 p.m.  1016  Evaluation of progression associated neoeitopes and immune contexture in pulmonary premalignancy. Kostyantyn Krysan, Los Angeles, CA

4:05 p.m.  1017  Lipid metabolic reprogramming drives resistance to PD1 blockade. Maria A. Cortez, Houston, TX

4:20 p.m.  1018  High-resolution microbiome profiling and genome wide arrays uncover bacteria driven alterations of oncogenic and immune pathways in head and neck cancer patients treated with surgery, chemo-radiation, and PD-1 checkpoint blockade therapy. Rafael E. Guerrero-Preston, Baltimore, MD

4:35 p.m.  1019  In vivo CRISPR screening identifies Ptpn2 as a target for cancer immunotherapy. Robert T. Manguso, Boston, MA

Room 147, Level 1, Washington Convention Center
Molecular and Cellular Biology/Genetics
Chromatin Structure and Function
Chair: Cigall Kadoch, Boston, MA

3:00 p.m.  Introduction

3:05 p.m.  1020  BRD9 defines a novel mammalian SWI/SNF (BAF) complex configuration which supports proliferation in AML. Brittany C. Michel, Boston, MA

3:20 p.m.  1021  Mutations in SWI/SNF chromatin remodeling complex sensitize tumors to OXPHOS inhibition. Yonathan Lissanu Deribe, Houston, TX

3:35 p.m.  1022  Chromatin remodeler HELLS is an epigenetic driver for hepatocellular carcinoma progression. Cheuk-Ting Law, Hong Kong Island, Hong Kong

3:50 p.m.  1023  Activation of proto-oncogenes by enhancer-hijacking in high-risk neuroblastoma. Daniel Dreidax, Heidelberg, Germany

4:05 p.m.  1024  Genome-wide examination of topological variability reveals cell type-specific mechanisms of oncogene activation. Caleb Lareau, Heidelberg, Germany

4:20 p.m.  1025  Controlled and endogenous depletion of a synthetic lethal target in human cancer cell lines via SMASH degron engineering. Florencia Rago, Cambridge, MA

4:35 p.m.  1026  Identify BRD4 as a facilitator of replication stress response signaling. Jingwen Zhang, Waltham, MA (not eligible for CME credit)
Room 150, Level 1, Washington Convention Center

**Molecular and Cellular Biology/Genetics**

**Oncogenes and Tumor Suppressors 1: Function and Therapeutic Vulnerabilities**

**Cochairs:** Thomas F. Westbrook, Houston, TX; Linda J. Z. Penn, Toronto, ON, Canada

- **3:00 p.m.** Introduction
- **3:05 p.m.** 1027 Development of orthotopically grafted organoid models to study pancreatic cancer progression. Chang-Il Hwang, Cold Spring Harbor, NY
- **3:20 p.m.** 1028 Genetic disruption of Kras sensitizes lung cancer cells to Fas-mediated apoptosis. Haiwei Mou, Worcester, MA
- **3:35 p.m.** 1029 MAPK-mediated immunomodulation in disseminated murine Emu-TCL1 chronic lymphocytic leukemia. Aparna Lakshmanan, Columbus, OH
- **3:50 p.m.** 1030 Metabolic reprogramming caused by mutations of the Fbw7 ubiquitin ligase in colorectal cancer. Ryan J. Davis, Seattle, WA
- **4:05 p.m.** 1031 Nuclear relocalization of NPM1c induces terminal differentiation and cell growth arrest. Lorenzo Brunetti, Houston, TX
- **4:20 p.m.** 1032 Identification of Ran binding protein 6 as a novel negative regulator of EGFR and candidate tumor suppressor in glioblastoma. Wan-Ying Hsieh, New York, NY
- **4:35 p.m.** 1033 Estrogen receptor gene fusions drive endocrine therapy resistance in estrogen receptor positive breast cancer. Jonathan T. Lei, Houston, TX

Room 144, Level 1, Washington Convention Center

**Tumor Biology**

**Animal Models of Human Oncogenesis**

**Cochairs:** Alex Kentsis, New York, NY; Birgit Knoechel, Boston, MA

- **3:00 p.m.** Introduction
- **3:05 p.m.** 1034 Role of KEAP1/NRF2 and TP53 mutations in lung squamous cell carcinoma development and radiation resistance. Youngtae Jeong, Stanford, CA
- **3:20 p.m.** 1035 Direct evidence for a protumor role of APOBEC3A in cancer initiation and progression in vivo: Enhanced mutagenesis and immune suppression in a novel humanized autochthonous model of pancreatic cancer. Andrew D. Rhim, Houston, TX
- **3:35 p.m.** 1036 Non-myogenic origin of embryonal rhabdomyosarcoma. Catherine J. Drummond, Memphis, TN
3:50 p.m.  1037  Progression from melanocytic nevi to melanoma is associated with increased genomic mutations in a UV-induced mouse model of human melanoma. Helen Michael, Bethesda, MD

4:05 p.m.  1038  The KIT-V654A second site mutation confers perinatal lethality and increased oncogenesis in a mouse model of GIST. Jennifer Q. Zhang, New York, NY

4:20 p.m.  1039  Disruption of circadian clockwork in in vivo reprogramming induced mouse kidney cancer and human Wilms tumor. Munehiro Ohashi, Kyoto, Japan

4:35 p.m.  1040  LIN28B-mediated let-7 independent activation of AKT promotes neuroblastoma pathogenesis. Ting Tao, Boston, MA

Room 202, Level 2, Washington Convention Center
Tumor Biology
Niches and Routes of Metastasis

Cochairs: Qing Chen, Philadelphia, PA; Paula M. Vertino, Atlanta, GA

3:00 p.m.  Introduction

3:05 p.m.  1041  Binding of soluble DC-HIL to endothelial cell creates immunosuppression on premetastatic niches. Vijay Ramani, Dallas, TX

3:20 p.m.  1042  CLIC4 is incorporated into extracellular vesicles of murine breast cancer cells and may influence metastatic burden. Alayna B. Craig-Lucas, Bethesda, MD

3:35 p.m.  1043  CSF-1R inhibitor prevented premetastatic lung niches in metastatic mammary tumor. Thaiz F. Borin, Augusta, GA

3:50 p.m.  1044  Development of a miRNA-based signature to predict human cancer metastasis. Lian Willetts, Edmonton, AB, Canada

4:05 p.m.  1045  Understanding breast cancer metastasis through circulating tumor cells. Remi Klotz, Los Angeles, CA

4:20 p.m.  1046  Conditional knockout of N-Myc and STAT Interactor disrupts normal mammary development and enhances metastatic ability of mammary tumors. Hawley Christine Pruitt, Birmingham, AL

4:35 p.m.  1047  Role of endocytosis in NM23 mediated motility suppression. Imran Khan, Bethesda, MD
SUNDAY, APRIL 2

**MEET AND GREET • 3:45 p.m.–4:30 p.m.**

AACRcentral Amphitheater (Booth 1125), Lower Level, Washington Convention Center

*Meet the Mentor: Undergraduate Focus*
(not eligible for CME credit)

**Chair:** Kathleen W. Scotto, New Brunswick, NJ

**Mentor:** Pamela Anne Marino, Bethesda, MD

**AWARDS AND LECTURES • 4:00 p.m.–4:45 p.m.**

Ballroom A-B, Level 3, Washington Convention Center

*Thirteenth Annual AACR-Irving Weinstein Foundation Distinguished Lecture*

*Changing Cell Fate for the Treatment of Cancer*

Leonard I. Zon, Boston, MA

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

AACR Publications Booth (2731), Lower Level, Washington Convention Center

*Meet the Editor-in-Chief of Cancer Research: George C. Prendergast, PhD*
(not eligible for CME credit)

George C. Prendergast, Wynnewood, PA

**NCI/NIH-SPONSORED SESSION • 4:00 p.m.–6:00 p.m.**

Marquis Ballroom Salons 3-4, Meeting Level 2, Marriott Marquis DC

*Translating Cancer Technologies from Lab to Market - Success Stories from the NCI SBIR Program*
(not eligible for CME credit)

**Moderator:** Michael Weingarten, Bethesda, MD

**Speakers:** Nathan Caffo, Seattle, WA
Scott C. Kachlany, Kendall Park, NJ
Raj K. Singh, Birmingham, AL
AWARDS AND LECTURES • 4:15 p.m.–5:15 p.m.

Room 207, Level 2, Washington Convention Center
Special MiCR Presentation Honoring Dr. Jane Cooke Wright (not eligible for CME credit)
4:15 p.m. Chair: Rick A. Kittles, Tucson, AZ

Twelfth Annual AACR-Minorities in Cancer Research Jane Cooke Wright Memorial Lectureship
Cancer Health Equity in Clinical Research: Reaching Underserved Populations
4:30 p.m. Carol L. Brown, New York, NY

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

Room 207, Level 2, Washington Convention Center
Presidential Address
Leading Discoveries, Targeting Cures, Saving Lives
Nancy E. Davidson, Seattle, WA

Ballroom C, Level 3, Washington Convention Center
Twentieth Annual Pezcoller Foundation–AACR International Award for Cancer Research
BRCA1, Other Fanconi Gene, and swi/SNF Function Co-sustain Mammary Epithelial Differentiation through DNA Damage Repair
David M. Livingston, Boston, MA

TOWN MEETING • 5:30 p.m.-7:00 p.m.

East Salon A-B, Level 1, Washington Convention Center
Chemistry in Cancer Research Working Group (CICR) Town Hall Meeting and Reception
(not eligible for CME credit)
Chair: Steven K. Davidsen
See online itinerary for details.
**SUNDAY, APRIL 2**

**TOWN MEETING • 6:00 p.m.–8:00 p.m.**

Independence Ballroom A-D, Meeting Level 4, Marriott Marquis DC

**Cancer Immunology Working Group (CIMM)**

**Town Hall Meeting and Reception**

(not eligible for CME credit)

Chair: Patrick Hwu

See online itinerary for details.

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**SPECIAL SESSION • 6:30 p.m.–8:30 p.m.**

Level 3 South Pre-function, Washington Convention Center

**Networking Hubs**

(not eligible for CME credit)

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**TOWN MEETING • 6:30 p.m.–8:30 p.m.**

Independence Ballroom E-H, Meeting Level 4, Marriott Marquis DC

**Pediatric Cancer Working Group Town Hall Meeting and Networking Reception**

(not eligible for CME credit)

**Speakers:**
- Garrett M. Brodeur, Philadelphia, PA
- Crystal L. Mackall, Stanford, CA

Panel discussion with the organizers of the AACR Childhood Cancer Predisposition Workshop

**Panelists:**
- David Malkin, Toronto, ON, Canada
- Kim Nichols, Memphis, TN
- Sharon E. Plon, Houston, TX
- Joshua D. Schiffman, Salt Lake City, UT
MONDAY, APRIL 3

● SPECIAL SESSION • 6:45 a.m.–8:00 a.m.

Room 140, Level 1, Washington Convention Center
Annual Business Meeting of Members
(not eligible for CME credit)

Participants in speaking order:
Margaret Foti, Philadelphia, PA
Nancy E. Davidson, Seattle, WA
William N. Hait, Raritan, NJ
José Baselga, New York, NY
Michael A. Caligiuri, Columbus, OH

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

Room 202, Level 2, Washington Convention Center
Altered Super Enhancer Function and Genome Topology in Cancer Pathogenesis and Therapy
A. Thomas Look, Boston, MA

Room 151, Level 1, Washington Convention Center
Ancestrally Conserved Mechanisms of Epigenetic Regulation in Cancer Progression
Melissa B. Davis, Athens, GA

Room 152, Level 1, Washington Convention Center
Brain Metastasis: Unique Challenges and Great Opportunities
Dihua Yu, Houston, TX

Room 204, Level 2, Washington Convention Center
Circadian Clocks Mechanisms Controlling Carcinogenesis and Cancer Treatments
Francis Levi, Coventry, United Kingdom
MONDAY, APRIL 3

Meet-the-Expert Sessions (cont’d)

Room 150, Level 1, Washington Convention Center
**Defects in Epithelial Extrusion Can Drive Carcinoma Formation and Progression**
Jody S. Rosenblatt, Salt Lake City, UT

East Salon A-B, Level 1, Washington Convention Center
**Control of Cancer Cell Phenotype by Covalent Cytosine Modifications**
Lucy A. Godley, Chicago, IL

Room 146, Level 1, Washington Convention Center
**Functional Characterization of Nonprotein Coding Variants**
Matthew L. Freedman, Boston, MA

Room 145, Level 1, Washington Convention Center
**The Future of Cancer Imaging**
Christopher H. Contag, Stanford, CA

Room 206, Level 2, Washington Convention Center
**Meet Your Surgeon, Enhance Your Research**
Shelley Hwang, Durham, NC

Ballroom C, Level 3, Washington Convention Center
Room 201, Level 2, Washington Convention Center
**The Molecular Basis for Leukemia in Children with Down Syndrome**
John Crispino, Chicago, IL

**Neoadjuvant Approaches Provide Insight into Immunosuppression and Biomarkers of Response to Immune Checkpoints and Inflammatory Agonists**
Robert L. Ferris, Pittsburgh, PA

East Salon C, Level 1, Washington Convention Center
**Notes from the Field: Cancer Prevention in Rural China**
Thomas W. Kensler, Pittsburgh, PA

Room 144, Level 1, Washington Convention Center
**Nutrition and Fasting in Cancer Therapy**
Valter D. Longo, Los Angeles, CA
Room 147, Level 1, Washington Convention Center
**Physical Activity and Therapeutic Response**
Jeffrey A. Meyerhardt, Boston, MA

Room 207, Level 2, Washington Convention Center
**Regulation of Immune Cell Function and Spatiality by Diverse Stromal Niches**
Viviana Cremasco, Cambridge, MA

Room 143, Level 1, Washington Convention Center
**Transcriptional Coupling of Nutrient Sensing and Growth Control**
Donald E. Ayer, Salt Lake City, UT

● **POSTER SESSIONS** • 8:00 a.m.-12:00 p.m.

Exhibit Hall, Lower Level, Washington Convention Center
*(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/AACR2017), and the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

**Experimental and Molecular Therapeutics**

Section 1  Combination Strategies: Novel Agents and Standard Therapies
Section 2  Combination Therapy 1
Section 3  DNA Repair
Section 4  New Targets 1
Section 5  Novel Molecular Targets 1
Section 6  Reversal of Drug Resistance
Section 7  Targeting Growth Factor and Intracellular Signaling

**Cancer Chemistry**

Section 9  Cheminformatics and Computational Strategies for Drug Discovery
Section 35  Late-Breaking Research: Cancer Chemistry
MONDAY, APRIL 3
Poster Sessions (cont’d)

Prevention Research
Section 10  Biologic and Biochemical Mechanisms in Cancer Prevention

Epidemiology
Section 11  Genetic Variation (Non-GWAS) and Cancer Risk, Prognosis, or Mechanisms
Section 12  Genome-Wide Association Studies/Post-GWAS Studies

Molecular and Cellular Biology/Genetics
Section 13  Cell Growth Signaling Pathways 3
Section 14  Cell Growth Signaling Pathways 4
Section 15  Epigenetics 1
Section 16  Genomic Instability and Cancer Therapy
Section 17  Genomics in Inherited Susceptibility and Preneoplastic Conditions
Section 18  MicroRNA Regulation of Cancer Biology 2
Section 19  Mitochondria, Autophagy, and Cancer Metabolism
Section 20  Targeting Aberrant Transcription in Cancer
Section 21  Tumor Suppressors 1: Modeling, Metabolism, and Epigenetics
Section 36  Late-Breaking Research: Molecular and Cellular Biology 2

Bioinformatics and Systems Biology
Section 24  Functional and Genomic Analysis of Cancer

Endocrinology
Section 25  Prostate Cancer Biology and Therapy

Immunology
Section 26  Cytokines: The First Modern Immunotherapies
Section 27  Tumor Microenvironment and Checkpoints
Section 28  Tumor Models and Assays

Clinical Research
Section 29  Adaptive Immunity to Cancer
Section 30  Liquid Biopsies 1: Circulating Tumor Cells
Section 31  Molecular Classification of Tumors
Section 32  Predictive Biomarkers 1
Section 34  Late-Breaking Research: Clinical Research 1
**Clinical Trials**

Section 33  Phase I Clinical Trials in Progress

**Tumor Biology**

Section 37  Angiogenesis and Vascular Biology 2
Section 38  Cell Culture and Animal Models of Cancer 2
Section 39  Imaging for Cancer Diagnosis and Image-Guided Therapy
Section 40  Migration and Invasion 2
Section 41  Normal and Neoplastic Stem Cells
Section 42  Pediatric Cancer 1: Biomarkers, Preclinical Models, and New Targets
Section 43  Regulation and Imaging of Tumor Metastasis
Section 44  Tumor Microenvironment 2

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

Hall D-E, Level 2, Washington Convention Center

**The Immune System and Cancer**

**Chair:** Elizabeth M. Jaffee, Baltimore, MD

8:15 a.m.  **Introduction.** Elizabeth M. Jaffee, Baltimore, MD

8:16 a.m.  **Immune checkpoint blockade in cancer therapy: Insights, opportunities, and prospects for cures.** James P. Allison, Houston, TX

8:45 a.m.  **Microbiome and cancer therapies.** Laurence Zitvogel, Villejuif, France

9:15 a.m.  **Genetically engineered T cells for cancer.** Crystal L. Mackall, Stanford, CA

9:45 a.m.  **Cell states linked to immunotherapy response and resistance.** Levi A. Garraway, Indianapolis, IN

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**Program Guide**

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MONDAY, APRIL 3

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

Independence Ballroom A, Level 5B, Grand Hyatt Washington
Women in Cancer Research Career Mentoring Session
(not eligible for CME credit)
Cochairs: Lucile L. Adams-Campbell, Washington, DC; Morag Park, Montréal, Quebec, Canada

8:20 a.m. Title to be announced. Caroline Dive, Manchester, United Kingdom
8:40 a.m. Roundtable Discussion 1
9:25 a.m. Roundtable Discussion 2
   Roundtable Mentors
   Eva Szabo, Bethesda, MD
   Cigall Kadoch, Boston, MA
   Charles A. Omer, Waltham, MA
   Varsha Gandhi, Houston, TX
   Elizabeth L. Travis, Houston, TX
   Louise M. Perkins, Washington, DC
   Danny R. Welch, Kansas City, KS
   Additional Mentors to be announced

10:10 a.m. Closing Remarks

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

AACR Publications Booth (2731), Lower Level, Washington Convention Center
Meet the Editor-in-Chief of Cancer Epidemiology, Biomarkers & Prevention:
Timothy R. Rebbeck, PhD
(not eligible for CME credit)

Timothy R. Rebbeck, Boston, MA
NCI/NIH-SPONSORED SESSION • 10:30 a.m.–12:00 p.m.

Marquis Ballroom Salons 3-4, Meeting Level 2, Marriott Marquis DC

**Highlights of Research Resources at the Frederick National Lab for Cancer Research**
(not eligible for CME credit)

**Moderator:** Michelle A. Berny-Lang, Bethesda, MD

**Speakers:** Andrew A. Quong, Frederick, MD
Ligia Pinto, Frederick, MD
Jennifer Grossman, Frederick, MD
Gordon R. Whiteley, Frederick, MD
Amanda G. Paulovich, Seattle, WA
Jeffrey R. Whiteaker, Seattle, WA

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

Constitution Ballroom C-E, Level 3B, Grand Hyatt Washington

**Clinical Careers for Nonclinicians, Organized by the Associate Member Council (AMC)**
(not eligible for CME credit)

**Careers in basic and translational sciences.** J. Carl Barrett, Waltham, MA

**Careers in a clinical setting.** Lee W. Jones, New York, NY

**Appraisal of clinical data: Careers in regulatory affairs.** John K. Leighton, Silver Spring, MD
MONDAY, APRIL 3

CLINICAL TRIALS PLENARY SESSION 3 • 10:30 a.m.–12:45 p.m.

Ballroom C, Level 3, Washington Convention Center
Cyclin-Dependent Kinase and PARP Inhibitor Clinical Trials

Chair: Elizabeth M. Swisher, Seattle, Washington

10:30 a.m. Introduction

10:35 a.m. CT044 MONARCH 1: Final overall survival analysis of a phase 2 study of abemaciclib, a CDK4 and CDK6 inhibitor, as monotherapy, in patients with HR+/HER2- breast cancer, after chemotherapy for advanced disease. Hope S. Rugo, San Francisco, CA

10:55 a.m. CT045 Ribociclib + letrozole for first-line treatment of hormone receptor-positive (HR+), human epidermal growth factor receptor 2-negative (HER2-) advanced breast cancer (ABC): Efficacy by baseline tumor markers. Fabrice Andre, Villejuif, France

11:15 a.m. Discussant. Filipa Lynce, Washington, DC

11:25 a.m. CT046 Phase I dose escalation study of the CDK4/6 inhibitor palbociclib in combination with the MEK inhibitor PD-0325901 in patients with RAS mutant solid tumors. Geoffrey I. Shapiro, Boston, MA

11:35 a.m. CT047 Phase 1 dose-escalation study of the CDK inhibitor dinaciclib in combination with the PARP inhibitor veliparib in patients with advanced solid tumors. Geoffrey I. Shapiro, Boston, MA

11:45 a.m. Discussant. Timothy A. Yap, Sutton, United Kingdom

11:55 a.m. CT048 Phase 1/2 study of olaparib tablets and temozolomide in patients with small cell lung cancer (SCLC) following failure of prior chemotherapy. Anna F. Farago, Boston, MA

12:15 p.m. Discussant. Caroline Dive, Manchester, United Kingdom

12:25 p.m. Discussion
MAJOR SYMPOSIA • 10:30 a.m.–12:15 p.m.

Room 152, Level 1, Washington Convention Center
Epigenetic Therapy: What Is It, Where Are We, and What Does the Future Hold?

Chair: Shelley L. Berger, Philadelphia, PA

10:30 a.m.  Introduction
10:35 a.m.  Targeting aberrant gene silencing in cancer. Jean-Pierre J. Issa, Philadelphia, PA
11:05 a.m.  Lysine specific demethylase-1 (LSD-1) inhibitors for treatment of cancer.
Sunil Sharma, Salt Lake City, UT
11:35 a.m.  Genomic and epigenomic mechanisms utilized by mutant p53. Shelley L. Berger, Philadelphia, PA

Room 146, Level 1, Washington Convention Center
Mechanisms Regulating Immune Checkpoint Therapies

Chair: Pamela S. Ohashi, Toronto, ON, Canada

10:30 a.m.  Introduction
10:35 a.m.  Next-generation anti-CTLA-4 antibodies. Alan J. Korman, Redwood City, CA [SY09-01]*
Seishi Ogawa, Kyoto-shi Sako-ku, Japan [SY09-02]*
11:15 a.m.  Evolution of neoantigen landscape during immune checkpoint blockade in non-small cell lung cancer.
Valsamo Anagnostou, Baltimore, MD [NG01]*
11:35 a.m.  Evaluating potential mechanisms regulating the response to checkpoint therapy.
Pamela S. Ohashi, Toronto, ON, Canada

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings (the abstract number is listed in brackets above).
Ballroom A-B, Level 3, Washington Convention Center

**Pan-cancer Genomic Analysis (ends at 12:45 p.m.)**

**Chair:** Gad Getz, Charlestown, MA

10:30 a.m. **Introduction**

10:40 a.m. **Title to be announced.** Lincoln Stein, Toronto, ON, Canada

10:55 a.m. **Pan-cancer study of recurrent and heterogeneous RNA aberrations and association with whole-genome variants.** Angela Norie Brooks, Santa Cruz, CA [SY10-02]*

11:10 a.m. **The genetic archeology of 2,663 cancers.** Peter Van Loo, London, United Kingdom

11:25 a.m. **Pan-cancer driver discovery.** Gad Getz, Charlestown, MA

11:40 a.m. **Discussion**

11:45 a.m. **Introduction: AACR Project GENIE.** Charles L. Sawyers, on behalf of AACR Project GENIE Consortium, New York, NY

11:55 a.m. **Landscape analysis of the initial data release from AACR Project GENIE.** Ethan Cerami, on behalf of AACR Project GENIE Consortium, Boston, MA [LB-102]

12:05 p.m. **Landscape of somatic ERBB2 Mutations: Findings from AACR GENIE and comparison to ongoing ERBB2 mutant basket study.** Alison Schram, on behalf of AACR Project GENIE Consortium, New York, NY [LB-103]

12:15 p.m. **Clinical actionability and clinical trial matching for GENIE patient genotypes using My Cancer Genome, Personalized Cancer Therapy, and OncoKB.** Christine M. Micheel, on behalf of AACR Project GENIE Consortium, Nashville, TN [LB-104]

12:25 p.m. **Characterization of total mutational burden in the GENIE cohort: Small and large panels can provide TMB information but to varying degrees.** Alexander S. Baras, on behalf of the AACR Project GENIE Consortium, Baltimore, MD [LB-105]

12:35 p.m. **Discussion**

*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 206, Level 2, Washington Convention Center
Survivorship: Where Is the Science Headed?

Chair: Patricia A. Ganz, Los Angeles, CA

10:30 a.m. Introduction

10:35 a.m. Survivorship science at the NCI: Present and future. Julia H. Rowland, Bethesda, MD

11:05 a.m. Cancer and accelerated aging: Insights into pathophysiology and prevention. Saro Armenian, Duarte, CA

11:35 a.m. Symptom science in cancer survivors: Advances in biology and management. Patricia A. Ganz, Los Angeles, CA

Room 202, Level 2, Washington Convention Center
The Effects of Tumor Microenvironment on Metastasis and Therapy Resistance

Chair: Ashani T. Weeraratna, Philadelphia, PA

10:30 a.m. Introduction

10:35 a.m. Lymphatic vessels: Balancing immune priming and immune evasion in melanoma. Amanda W. Lund, Portland, OR [NG02]*

10:55 a.m. Melanoma in the Wnt-er of life: How aging affects tumor progression. Ashani T. Weeraratna, Philadelphia, PA

11:20 a.m. Forcing tumor progression and aggression. Valerie M. Weaver, San Francisco, CA

11:45 a.m. Imaging therapy failure. Erik Sahai, London, United Kingdom

Room 151, Level 1, Washington Convention Center
The Unfolded Protein Response in Tumor Biology

Chair: Amato J. Giaccia, Stanford, CA

10:30 a.m. Introduction

10:35 a.m. Established and novel targets of the UPR in cancer from animal models to functional screens. Constantinos Koumenis, Philadelphia, PA

11:05 a.m. Targeting the Ire-XBP-1 pathway. Albert C. Koong, Stanford, CA

11:35 a.m. GRP78/BiP: Cancer’s comrade in crime. Amy S. Lee, Los Angeles, CA [SY13-03]*

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings (the abstract number is listed in brackets above).
MONDAY, APRIL 3

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

Room 150, Level 1, Washington Convention Center
*Cancer Predisposition in Pediatric Oncology*

**Chair:** Sharon E. Plon, Houston, TX

**10:30 a.m.**  Telomere biology and human disease: Progress from the ends. Sharon A. Savage, Rockville, MD

**11:00 a.m.**  Exploring the complex molecular nature of Li-Fraumeni syndrome. David Malkin, Toronto, Ontario, Canada

**11:30 a.m.**  The landscape of pediatric cancer predisposition derived from genomic sequencing. Sharon E. Plon, Houston, TX

Room 207, Level 2, Washington Convention Center
*Recent Advances in Immunotherapy Diagnostics*

**Chair:** David L. Rimm, New Haven, CT

**10:30 a.m.**  DNA-based approaches to examining determinants of response and resistance to PD-1 blockade. Matthew David Hellmann, New York, NY

**11:00 a.m.**  Tumor immunoarchitecture: Additional predictive factors for cancer immunotherapy response. Janis Marie Taube, Baltimore, MD

**11:30 a.m.**  PD-L1-based predictive factors as companion diagnostics for immunotherapy. David L. Rimm, New Haven, CT

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

Room 147, Level 1, Washington Convention Center
*Gastric Cancer and Esophageal Adenocarcinoma: Biology, Treatment, and Heterogeneity between Tumor Types and Populations*

**Chair:** Patrick B. O. Tan, Singapore, Singapore

**10:30 a.m.**  Genomic and epigenomic heterogeneity of gastric and esophageal cancer. Patrick B. O. Tan, Singapore, Singapore
11:00 a.m.  Tumors as organs: Influence of noncancerous cells on progression and response to therapy. Heike I. Grabsch, Maastricht, Netherlands

11:30 a.m.  Clinical management of esophageal and gastric cancer: What’s shared and what’s not? Jaffer A. Ajani, Houston, TX

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

Room 145, Level 1, Washington Convention Center
Diet and Precision Medicine in Cancer Prevention: The Role of Genetic Background, the Microbiome, and Epigenetic Mechanisms

Chair: Scott Bultman, Chapel Hill, NC

10:30 a.m.  Diet and gut microbiota influence an epigenetic mechanism of tumor suppression. Scott J. Bultman, Chapel Hill, NC

10:55 a.m.  Marine omega-3 polyunsaturated fatty acid and colorectal cancer prevention and treatment. Mingyang Song, Boston, MA [NG03]*

11:15 a.m.  Genes, diet, and microRNAs and cancer. Lynnette R. Ferguson, Auckland, New Zealand

11:40 a.m.  Periconceptional nutrition influences metastable epialleles associated with human cancer. Robert A. Waterland, Houston, TX

Room 144, Level 1, Washington Convention Center
Implementation Science for Prevention

Chair: Graham A. Colditz, St. Louis, MO

10:30 p.m.  Towards a national strategy to increase HPV vaccination. Electra D. Paskett, Columbus, OH

11:00 a.m.  Using implementation science to reduce urban and rural cancer disparities. Celette S. Skinner, Dallas, TX

11:30 a.m.  Improving implementation of tobacco treatment guidelines in public dental care. Jamie S. Ostroff, 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 3

MINISYMPOSIUM • 10:30 a.m.–12:15 p.m.

Room 143, Level 1, Washington Convention Center
Advancing Clinical Trial Design in Regulatory Science and Policy

Cochairs: Lisa LaVange, Silver Spring, MD; Lillian L. Siu, Toronto, Ontario, Canada

3594 Adaptively randomized seamless-phase multiarm platform trial: Glioblastoma Multiforme Adaptive Global Innovative Learning Environment (GBM AGILE). Donald A. Berry, Houston, TX

3597 Experiences and lessons from innovative dose escalation designs in early-phase oncology. Jiawen Zhu, New York, NY

3596 How many tumor indications should be initially studied in clinical development of next-generation immunotherapies? Cong Chen, Collegeville, PA

3595 Under-reporting of research biopsies in clinical trials in oncology. Christine M. Parseghian, Houston, TX

MAJOR SYMPOSIUM • 10:30 a.m.–12:30 p.m.

East Salon A-B, Level 1, Washington Convention Center
Presidential Select Symposium: Cancer Health Disparities

Chair: Nancy E. Davidson, Seattle, WA
Moderator: Nancy E. Davidson, Seattle, WA

10:30 a.m. Introduction

10:40 a.m. Colon cancer screening and genetics. John M. Carethers, Ann Arbor, MI [SY14-01]*

11:00 a.m. Genomics in precision medicine and prostate cancer in African Americans. John D. Carpsten, Los Angeles, CA

11:20 a.m. Disparities in Hispanic populations. Marcia R. Cruz-Correa, San Juan, PR

11:40 a.m. Disparities in Native American populations. Cheryl L. Willman, Albuquerque, NM

*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 • 10:30 a.m.–12:30 p.m.

Room 204, Level 2, Washington Convention Center

Pancreatic Cancer Action Network-AACR Grantee Discussion and Poster Session
(not eligible for CME credit)

Chair: Steven D. Leach, New York, NY

Discussion Moderators: Steven D. Leach, New York, NY; Rosalie C. Sears, Portland, OR

Pancreatic Cancer Action Network-AACR Inaugural Research Acceleration Network Grant, in memory of Skip Viragh; CAPS multicenter trial: Imaging and markers for pancreatic cancer screening. Michael G. Goggins, Baltimore, MD

2014 Pancreatic Cancer Action Network-AACR Research Acceleration Network Grant, in memory of Skip Viragh; Developing a novel oxidative phosphorylation inhibitor in pancreatic cancer. Giulio F. Draetta, Houston, TX

2015 Pancreatic Cancer Action Network-AACR Research Acceleration Network Grant; Defining novel combination KRAS-targeted therapeutic strategies. Channing J. Der, Chapel Hill, NC

2014 Pancreatic Cancer Action Network-AACR Research Acceleration Network Grant, supported by the Fredman Family Foundation; GVAX + CRS-207 heterologous prime boost vaccination with PD-1 blockade. Dung T. Le, Baltimore, MD

2015 Pancreatic Cancer Action Network-AACR Research Acceleration Network Grant, supported by Celgene; Eliminating T cell barriers in pancreatic cancer patients. Steven D. Leach, New York, NY


Pancreatic Cancer Action Network-AACR Inaugural Research Acceleration Network Grant, supported by Tempur-Pedic in memory of Tim Miller; Accelerating development of CD40 therapy for pancreatic cancer. Robert H. Vonderheide, Philadelphia, PA

Poster Presentations: 2016 Pathway to Leadership grant recipients

2016 Pancreatic Cancer Action Network-AACR Pathway to Leadership Grant; The epigenetic plasticity of pancreatic adenocarcinoma. Rohit Chandwani, New York, NY

2016 Pancreatic Cancer Action Network-AACR Pathway to Leadership Grant; The role and regulation of HNF1A in pancreatic cancer cells. Ethan V. Abel, Ann Arbor, MI

2016 Pancreatic Cancer Action Network-AACR Pathway to Leadership Grant, in memory of Carina Rogerson; Syndecan-1 is a novel regulator for nutrient salvage pathway. Wantong Yao, Houston, TX

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MONDAY, APRIL 3

● SPECIAL SESSION • 12:00 p.m.–12:30 p.m.

AACRcentral Amphitheater (Booth 1125), Lower Level, Washington Convention Center
Tumor Microenvironment Working Group (TME) Networking Session with Early-Career Researchers
(not eligible for CME credit)

Moderator: Cyrus M. Ghajar, Seattle, WA
Speakers: Eric C. Holland, Seattle, WA
Alana L. Welm, Salt Lake City, UT

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

Room 202, Level 2, Washington Convention Center
SU2C Scientific Session: Translating Advances in Immunotherapy to Patient Benefit
(not eligible for CME credit)

Moderator: Phillip A. Sharp, Cambridge, MA

12:30 p.m. Opening remarks from the SU2C Scientific Advisory Committee Chairperson. Phillip A. Sharp, Cambridge, MA
12:35 p.m. Immunotherapeutic targets in childhood cancers: Not a trickle down from adult malignancies. John M. Maris, Philadelphia PA
12:58 p.m. Epigenetic therapy—where does it stand as an option to improve the efficacy of immune checkpoint therapy? Stephen B. Baylin, Baltimore, MD
1:21 p.m. Increased mutational load and a dormant TIL phenotype define non-small cell lung carcinomas (NSCLCs) sensitive to immune checkpoint blockers. Kurt A. Schalper, New Haven, CT
1:44 p.m. SU2C-Lustgarten Foundation Pancreatic Immunotherapy Dream Team: Targeting immune vulnerabilities in pancreatic cancer. Lisa M. Coussens, Portland, OR
2:07 p.m. Antigen discovery in human pancreatic cancer. Vinod Balachandran, New York, NY
NCI/NIH-SPONSORED SESSION • 1:00 p.m.–1:45 p.m.

Marquis Ballroom Salons 3-4, Meeting Level 2, Marriott Marquis DC
NCI Cancer Imaging Program Informatics Integration
(not eligible for CME credit)

Speakers: Janet F. Eary, Bethesda, MD

Additional speakers to be announced

MAJOR SYMPOSIA • 1:00 p.m.–2:45 p.m.

East Salon A-B, Level 1, Washington Convention Center
Adaptive Response to Therapy

Chair: Joan S. Brugge, Boston, MA

1:00 p.m. Introduction

1:05 p.m. Systems analysis of adaptive responses in patient-derived ovarian cancer xenografts to identify combination therapies and predictive biomarkers. Joan S. Brugge, Boston, MA

1:35 p.m. Adaptive resistance: Lessons for a prospective genomic profiling initiative. David B. Solit, New York, NY

2:05 p.m. Leveraging adaptive responses to targeting DNA damage response. Gordon B. Mills, Houston, TX

Room 150, Level 1, Washington Convention Center
Clonal Selection, Resistance, and Progression in Pediatric Cancer

Chair: Charles G. Mullighan, Memphis, TN

1:00 p.m. Introduction

1:05 p.m. Genetic heterogeneity and clonal evolution: Lessons from acute lymphoblastic leukemia. Charles G. Mullighan, Memphis, TN

1:35 p.m. Molecular heterogeneity through the life cycle of medulloblastoma. Michael D. Taylor, Toronto, ON, Canada

2:05 p.m. Genetic and nongenetic mechanisms of progression in pediatric solid tumors. Olivier Delattre, Paris, France
MONDAY, APRIL 3

Room 147, Level 1, Washington Convention Center

**Diet, Microbiome, and Cancer**

*Chair:* Stephen J. D. O’Keefe, Pittsburgh, PA

1:00 p.m. *Introduction*

1:05 p.m. *Prospective cohort studies of diet, the gut microbiome, and colorectal cancer.* Andrew T. Chan, Boston, MA

1:35 p.m. *How can intestinal microbes trigger cancer?* Christian Jobin, Gainesville, FL

2:05 p.m. *Can a change in diet change your cancer risk?* Stephen J. D. O’Keefe, Pittsburgh, PA [SY17-03]*

Ballroom A-B, Level 3, Washington Convention Center

**Genetic Influences on Anticancer Immunity**

*Chair:* Drew M. Pardoll, Baltimore, MD

1:00 p.m. *Introduction*

1:05 p.m. *Title to be announced.* Drew M. Pardoll, Baltimore, MD

2:05 p.m. *The multifaceted functions of the PD-1 pathway.* Arlene H. Sharpe, Boston, MA

1:35 p.m. *Targets and resistors of antitumor immunity.* Nir Hacohen, Charlestown, MA

Room 207, Level 2, Washington Convention Center

**Inflammation and Cancer**

*Chair:* Michael Karin, La Jolla, CA

1:00 p.m. *Introduction*

1:05 p.m. *Tumor-elicited inflammation in colorectal cancer.* Michael Karin, La Jolla, CA [SY19-01]*

1:35 p.m. *Microbes in cancer: Friends or foes?* Giorgio Trinchieri, Bethesda, MD

2:05 p.m. *Inflammation-driven cancer: Host and microbial pathways.* Fiona Powrie, Oxford, United Kingdom [SY19-03]*

Room 206, Level 2, Washington Convention Center

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings (the abstract number is listed in brackets above).
AACR-Bayard D. Clarkson Symposium: RNA Processing and Editing in Cancer

Chair: Catriona H. Jamieson, La Jolla, CA

1:00 p.m. Introduction

1:05 p.m. The role of RNA editing in leukemia stem cell evolution. Catriona H. M. Jamieson, La Jolla, CA

1:35 p.m. Circ-RNAs and fusion-Circ-RNAs in tumorigenesis. Pier Paolo Pandolfi, Boston, MA

2:05 p.m. Imaging stem cell signals in cancer progression and therapy resistance. Tannishtha Reya, La Jolla, CA

Room 152, Level 1, Washington Convention Center

Targeting Residual Disease

Chair: Alice T. Shaw, Boston, MA

1:00 p.m. Introduction

1:05 p.m. Novel therapeutic strategies for targeting postsurgical residual disease in breast cancer. Mitchell Dowsett, London, United Kingdom

1:35 p.m. Mechanisms of residual disease during targeted therapy. Trever G. Bivona, San Francisco, CA

2:05 p.m. Cancer evolution as a therapeutic target. Alberto Bardelli, Candiolo, Italy [SY21-03]*

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

Room 146, Level 1, Washington Convention Center

Clonality in Normal Tissue and Its Relationship with Malignancy

Chair: Peter J. Campbell, Cambridge, United Kingdom

1:00 p.m. Tissue-specific mutation accumulation in human adult stem cells during life. Ruben van Boxtel, Utrecht, Netherlands

1:30 p.m. Somatic mutations in normal human hematopoietic stem cells. Peter J. Campbell, Cambridge, United Kingdom

2:00 p.m. Clinical implications of clonal hematopoiesis. Andy Futreal, 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).
MONDAY, APRIL 3

Ballroom C, Level 3, Washington Convention Center

**Liquid Biopsies: The New Pathology**

**Chair:** Victor E. Velculescu, Baltimore, MD

- **1:00 p.m.** Liquid biopsy in breast cancer: Circulating tumor cells (CTCs) and circulating cell-free tumor DNA (ctDNA) for prognosis, disease monitoring, and modeling of tumor heterogeneity. Massimo Cristofanilli, Chicago, IL
- **1:30 p.m.** First validation, then discovery: Establishing truth from cfDNA genotyping. Geoffrey R. Oxnard, Boston, MA
- **2:00 p.m.** Liquid biopsy analyses for detection and characterization of human cancer. Victor E. Velculescu, Baltimore, MD

Room 151, Level 1, Washington Convention Center

**PARP Inhibitors: To Combine or Not Combine; That Is the Question**

**Chair:** Johann S. de Bono, Sutton, United Kingdom

- **1:00 p.m.** Introduction: PARP inhibitors so far. Johann S. de Bono, Sutton, United Kingdom
- **1:05 p.m.** Mechanism-driven combinatorial therapy of inhibitors of PARP inhibitor and other kinases. Mien-Chie Hung, Houston, TX
- **1:35 p.m.** The study of PARPi resistance using genetically engineered mouse models for BRCA1/2-mutated breast cancer. Sven Rottenberg, Amsterdam, Netherlands
- **2:05 p.m.** Rationally combining PARP inhibitors with DNA-damaging agents: Will it be possible? Ruth Plummer, Newcastle Upon Tyne, United Kingdom
- **2:35 p.m.** Conclusion: What next for PARP inhibitors? Johann S. de Bono, Sutton, United Kingdom

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**RECENT ADVANCES IN ORGAN SITE RESEARCH**

1:00 p.m.–2:45 p.m.

Room 144, Level 1, Washington Convention Center

**Dharma Master Jiantai Recent Advances in Lung Cancer Session: New Developments or Insight into Lung Cancer Evolution and Metastases**

**Chair:** Roman K. Thomas, Cologne, Germany

- **1:00 p.m.** Chromosomal order and chaos in lung cancer evolution. Charles Swanton, London, United Kingdom
- **1:30 p.m.** Novel insights into the small cell lung cancer genome. Roman K. Thomas, Cologne, Germany
2:00 p.m.  Functional lung cancer genomics through in vivo genome editing. Monte M. Winslow, Stanford, CA

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

Room 145, Level 1, Washington Convention Center
*From Germline Risk and Premalignant Biology to Immune-Prevention of Colorectal Cancer*

**Chair:** Eduardo Vilar-Sanchez, Houston, TX

1:00 p.m.  Germline precision prevention: Accelerating evaluation of variants in known CRC susceptibility genes and identifying novel CRC genes. Sean V. Tavtigian, Salt Lake City, UT

1:30 p.m.  Tackling the microbiota for colorectal cancer prevention. Cynthia L. Sears, Baltimore, MD

2:00 p.m.  Developing a premalignant cancer genome atlas for colorectal cancer. Eduardo Vilar-Sanchez, Houston, TX

**SPECIAL SESSION** • 1:00 p.m.–2:45 p.m.

Hall D-E, Level 2, Washington Convention Center
*Beau Biden Cancer Moonshot: Progress and Promise (not eligible for CME credit)*

**Moderator:** Nancy E. Davidson, Executive Director of Oncology, Fred Hutchinson Cancer Research Center, and AACR President

**Speakers:** Joe Biden, 47th Vice President of the United States, and led the Cancer Moonshot Initiative in 2016 (invited)
Elaine Chao, Secretary of Transportation
Fran Drescher, Actress and founder of *Cancer Schmancer*
Richard Pazdur, Director, FDA Oncology Center of Excellence
Douglas R. Lowy, Acting Director, NCI
Michael A. Caligiuri, Director, The Ohio State University Comprehensive Cancer Center, and AACR President-Elect
Elizabeth M. Jaffee, cochair of the Cancer Moonshot Blue Ribbon Panel, and Deputy Director, The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins
Tom Price, Secretary of Health and Human Services (invited)
Members of Congress (invited)
MONDAY, APRIL 3

POSTER SESSIONS • 1:00 p.m.-5:00 p.m.

Exhibit Hall, Lower Level, Washington Convention Center
(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/AACR2017), and the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

Experimental and Molecular Therapeutics

Section 1 Cell Death Targets
Section 2 Combination Therapy 2
Section 3 Drug Resistance: Other Topics
Section 4 Growth Factor and Hormone Receptors as Therapeutic Targets
Section 5 Mechanism of Drug Action
Section 6 New Targets 2
Section 7 Targeting p53, Apoptosis, and the Cell Cycle
Section 35 Late-Breaking Research: Experimental and Molecular Therapeutics 1

Cancer Chemistry

Section 8 Drug Delivery
Section 9 Proteomics and Mass Spectrometry 2

Prevention Research

Section 10 Molecular Targets and Cancer Prevention

Epidemiology

Section 11 Biomarkers of Risk and Prognosis
Section 12 Tobacco, Alcohol, and Other Risk Factors

Molecular and Cellular Biology/Genetics

Section 13 Apoptosis and Other Regulated Cell Death in Cancer
Section 14 CDKs and CDK Inhibitors
Section 15 Cell Growth Signaling Pathways 5
Section 16 Epigenetics 2
Section 17 Genome-Wide Analysis of Transcriptional Regulation
Section 18 Genomic Landscape of Lymphoma, Leukemia, and Lung, Bladder, and Other Cancers
Section 19  Homologous Recombination and DNA Double-Strand Break Repair
Section 20  Metabolomics and Metabolic Regulation
Section 21  MicroRNAs and Other Noncoding RNAs as Tumor Suppressors or Oncogenes 1
Section 22  Nuclear Oncogenes and Tumor Suppressors

Scientist<-->Survivor Program
Section 23  Advocates Poster Session 2

Bioinformatics and Systems Biology
Section 24  Computational Tools and Databases

Immunology
Section 25  Checkpoints 2: Small-Molecule Inhibitors
Section 26  Immune Response to Hematopoietic Tumors: New Development in Tumor Immunology
Section 27  Inflammation and Cancer

Clinical Research
Section 29  Clinical Molecular Genetics and Laboratory Correlates
Section 30  Liquid Biopsies 2: cfDNA
Section 31  Outcomes in Patients and Survivors
Section 32  Predictive Biomarkers 2

Clinical Trials
Section 33  Phase III Clinical Trials and Phase II/III Clinical Trials in Progress

Tumor Biology
Section 36  Late-Breaking Research: Tumor Biology 1
Section 38  Cell Culture and Animal Models of Cancer 3
Section 39  Gene Expression in Metastatic Progression
Section 40  Imaging Cancer Metabolism, Therapeutic Targets, and Treatment Response
Section 41  Signaling in Cancer Stem Cells
Section 42  Tumor Evolution and Heterogeneity 1
Section 43  Tumor Microenvironment 3
Section 44  Tumor Microenvironment 4
MONDAY, APRIL 3

○ **MEET AND GREET** • 1:45 p.m.–2:15 p.m.

AACRcentral Amphitheater (Booth 1125), Lower Level, Washington Convention Center

**Meet the AACR Foundation: Executive Director and Board of Trustees**

*(not eligible for CME credit)*

**Moderator:** Mitch Stoller, Philadelphia, PA

○ **NCI/NIH-SPONSORED SESSION** • 2:00 p.m.–3:00 p.m.

Marquis Ballroom Salons 3-4, Meeting Level 2, Marriott Marquis DC

**NIH-Supported International COnsortium of METabolomics Studies (COMETS)**

*(not eligible for CME credit)*

**Moderator:** Krista Anne Zanetti, Rockville, MD

**Speakers:**
- Steven C. Moore, Rockville, MD
- Marinella Temprosa, Rockville, MD

○ **ASSOCIATE MEMBER COUNCIL (AMC) MEET AND GREET**

3:00 p.m.–4:30 p.m.

AACRcentral (Booth 1125), Associate Member Resource Ctr, Lower Level, Washington Convention Center

*(not eligible for CME credit)*

**Chair:** Diana M. Merino, Bethesda, MD

**Chair-Elect:** Ken Dutton-Regester, Brisbane, Queensland, Australia

**Past Chair:** Mark D. Stewart, Washington, DC

**Council Members:** Brian J. Abraham, Cambridge, MA

**Members:**
- Allison S. Betof, New York, NY
- Wenji Guo, Baltimore, MD
- Francis W. Hunter, Auckland, New Zealand
- Katherine L. Jameson, Nashville, TN
- Selena Lin, Santa Monica, CA
- Maeve Mullooly, Bethesda, MD
- Colles O. Price, Boston, MA
- Nardin N. Samuel, Toronto, ON, Canada
- Shane R. Stecklein, Houston, TX
- Kekoa A. Taparra, Rochester, MN
**CLINICAL TRIALS MINISYMPOSIUM 2 • 3:00 p.m.–5:30 p.m.**

Ballroom C, Level 3, Washington Convention Center

*Update, Novel Indication, and New Immuno-oncology Clinical Trials*

**Chair:** Alexandra Snyder, New York, NY

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

### 3:05 p.m.
**CT074** Non-comparative, open-label, multiple cohort, phase 1/2 study to evaluate nivolumab (NIVO) in patients with virus-associated tumors (CheckMate 358): Efficacy and safety in Merkel cell carcinoma (MCC).
Suzanne L. Topalian, Baltimore, MD

### 3:20 p.m.
**CT073** Immunomodulatory effects of nivolumab and ipilimumab in combination or nivolumab monotherapy in advanced melanoma patients: CheckMate 038.
Antoni Ribas, Los Angeles, CA

### 3:35 p.m.
**CT075** Overall survival (OS) results from a phase III trial of nivolumab (NIVO) combined with ipilimumab (IPI) in treatment-naïve patients with advanced melanoma (CheckMate 067).
James Larkin, London, United Kingdom

### 3:50 p.m.
**CT076** Multicenter phase II study of nivolumab in previously treated patients with recurrent and metastatic non-keratinizing nasopharyngeal carcinoma—Mayo clinic Phase 2 Consortium P2C-MN026, NCI9742, NCT02339558.
Brigette B. Ma, Hong Kong, Hong Kong

### 4:05 p.m.
**CT077** Five-year follow-up from the CA209-003 study of nivolumab in previously treated advanced non-small cell lung cancer (NSCLC): Clinical characteristics of long-term survivors.
Julie Brahmer, Baltimore, MD

### 4:20 p.m.
**CT078** Impact of disease burden and transplant on long-term survival after CD19 CAR therapy in adults with relapsed B-cell acute lymphoblastic leukemia.
Jae H. Park, New York, NY

### 4:35 p.m.
**CT079** Durable responses to avelumab (anti-PD-L1) in patients with Merkel cell carcinoma progressed after chemotherapy: 1-year efficacy update.
Howard L. Kaufman, New Brunswick, NJ

### 4:50 p.m.
**CT080** Pharmacokinetic and pharmacodynamic analysis of M7824, a dual anti-PD-L1 and TGFβ TRAP molecule, in the first-in-human phase I dose escalation study.
Zhigang Kang, Bethesda, MD

### 5:05 p.m.
**CT081** Molecular correlates of differential response to Atezolizumab +/- Bevacizumab vs Sunitinib in a Phase II study in untreated metastatic renal cell carcinoma (RCC) patients.
David McDermott, Boston, MA

### 5:20 p.m.
**CT082** Impact of tumor mutation burden on the efficacy of first-line nivolumab in stage IV or recurrent non-small cell lung cancer: An exploratory analysis of CheckMate 026.
Solange Peters, Lausanne, Switzerland
MONDAY, APRIL 3

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

East Salon A-B, Level 1, Washington Convention Center
AACR-JCA Joint Symposium: Cancer Metabolomics

Cochairs: M. Celeste Simon, Philadelphia, PA; Chiaki Takahashi, Kanazawa, Japan

3:00 p.m.  Regulation of metabolism by RB tumor suppressor gene. Chiaki Takahashi, Kanazawa, Japan  [SY22-01]*

3:30 p.m.  Tumor suppression by p62 through the metabolic reprogramming of the stroma. Jorge Moscat, La Jolla, CA  [SY22-02]*

4:00 p.m.  Multi-omics analyses of paired normal and tumor tissues reveals when and what causes altered metabolism in colorectal cancer. Tomoyoshi Soga, Tsuruoka, Japan  [SY22-03]*

4:30 p.m.  Metabolic adaptations and renal cancer. M. Celeste Simon, Philadelphia, PA  [SY22-04]*

○ MINISYMPOSIA • 3:00 p.m.–5:00 p.m.

Room 151, Level 1, Washington Convention Center
Clinical Research
Clinical Biomarkers

Cochairs: Vincent A. Miller, Cambridge, MA; Leisha A. Emens, Baltimore, MD

3:05 p.m.  2986  Atezolizumab in metastatic TNBC (mTNBC): Long-term clinical outcomes and biomarker analyses. Peter Schmid, London, United Kingdom

3:20 p.m.  2987  Validation and clinical feasibility of a comprehensive genomic profiling assay to identify likely immunotherapy responders through tumor mutational burden (TMB). Daniel S. Lieber, Cambridge, MA  (not eligible for CME credit)

3:35 p.m.  2988  Immunogenomic analyses of tumor cells and microenvironment in patients with advanced melanoma before and after treatment with nivolumab. Timothy A. Chan, New York, NY

3:50 p.m.  2989  Expression of immune checkpoints proteins and their prognostic relevance in prostate cancer. Ronald Simon, Hamburg, Germany

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings (the abstract number is listed in brackets above).
4:05 p.m.  2990  Polyfunctional anti-CD19 CAR T cells determined by single-cell multiplex proteomics associated with clinical activity in patients with advanced non-Hodgkin’s lymphoma. John Rossi, Santa Monica, CA (not eligible for CME credit)

4:20 p.m.  2991  Integrative analysis of molecular and drug response data from clinical samples and PDTXs to identify pharmacogenomic associations in breast cancer. Maurizio Callari, Cambridge, United Kingdom

4:35 p.m.  2992  Identification of NOTCH1 inactivating mutation as a therapeutic vulnerability to PI3K/mTOR pathway inhibition in head and neck squamous cell carcinoma (HNSCC). Vaishnavi Sambandam, Houston, TX

Room 152, Level 1, Washington Convention Center
Clinical Research
Innate Immune Mechanisms in Cancer Treatment

Cochairs: Robert J. Binder, Pittsburgh, PA; Xiaokui Zhang, Warren, NJ

3:05 p.m.  2993  STING signaling in breast tumor microenvironment modulates immune checkpoint blockade efficacy in the neu-N mouse model of breast cancer. Jeremy B. Foote, Baltimore, MD

3:20 p.m.  2994  Engineered STING-targeting immunotherapy delays B16 melanoma tumor growth and significantly improves animal survival as compared to an immune-checkpoint inhibitor. Andrea Amalfitano, East Lansing, MI

3:35 p.m.  2995  Development of a novel highly potent TLR8 selective agonist for cancer immunotherapy. Yuxun Wang, Shanghai, China

3:50 p.m.  2996  Immune checkpoint protein VISTA suppresses Toll-like receptor signaling and the production of inflammatory cytokines. Wenwen Xu, Milwaukee, WI

4:05 p.m.  2997  The tetravalent bispecific antibody AFM13 engages and primes innate immune cells for anti-cancer immunity. Martin Treder, Heidelberg, Germany

4:20 p.m.  2998  Elotuzumab can costimulate NK cell responses by engaging SLAMF7. Tatiana Pazina, Philadelphia, PA

4:35 p.m.  2999  NKG2A checkpoint receptor expression on tumor-infiltrating CD8+ T cells restrains efficacy of immunotherapy. Thorbald van Hall, Leiden, Netherlands
MONDAY, APRIL 3

Minisymposia (cont’d)

Room 204, Level 2, Washington Convention Center

Clinical Research

Predictors and Drivers of Pediatric Tumors

Cochairs: Angelika Eggert, Berlin, Germany; David Malkin, Toronto, ON, Canada

3:05 p.m.  3000  Defining the subclonal landscape of high-risk neuroblastoma. Jo Lynne Harenza, Philadelphia, PA

3:20 p.m.  3001  Germline mutations in cancer predisposition genes and risk for subsequent neoplasms among long-term survivors of childhood cancer in the St. Jude Lifetime Cohort. Zhaoming Wang, Memphis, TN

3:35 p.m.  3002  Therapeutic targeting of PGBD5-induced DNA repair dependence in pediatric solid tumors. Anton Henssen, New York, NY

3:50 p.m.  3003  Exome analysis of known hereditary cancer genes in 122 children with rhabdomyosarcoma. Talia Wegman-Ostrosky, Bethesda, MD

4:05 p.m.  3004  Comparison of somatic alterations in the genome and transcriptome of 1,705 pediatric leukemia and solid tumors: a report from the Children’s Oncology Group (COG) - NCI TARGET Project. Xiaotu Ma, Memphis, TN

4:20 p.m.  3005  Whole-genome sequencing identified novel non-coding mutations causal of oncogene activation in T-cell acute lymphoblastic leukemia. Maoxiang Qian, Memphis, TN

4:35 p.m.  3006  Oncogenic activity of H3.3 K27M in a spontaneous DIPG mouse model. Jon D. Larson, Memphis, TN

Room 201, Level 2, Washington Convention Center

Epidemiology

Cancer Epidemiology and Prevention

Chair: James V. Lacey, Duarte, CA

3:05 p.m.  3007  Tobacco smoking, alcohol use and risk of hepatocellular carcinoma and intrahepatic cholangiocarcinoma: The Liver Cancer Pooling Project. Jessica Leigh Petrick, Bethesda, MD

3:20 p.m.  3008  Obesity, physical activity, and breast cancer survival among older breast cancer survivors in the CPS-II Nutrition Cohort. Maret L. Maliniak, Atlanta, GA

3:35 p.m.  3009  Lipid-lowering drug use and risk of fatal prostate cancer in the Atherosclerosis Risk in Communities (ARIC) Study. Alison M. Mondul, Ann Arbor, MI

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<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>4:05 p.m.</td>
<td>3011</td>
<td>Dietary fat, fatty acids, and ovarian cancer risk: Preliminary findings from the Shanghai Women's Health Study.</td>
<td>Eftitian Y. Akam, Nashville, TN</td>
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<tr>
<td>4:20 p.m.</td>
<td>3012</td>
<td>Long-term aspirin use and total and cancer-specific mortality.</td>
<td>Yin Cao, Boston, MA</td>
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<td>4:35 p.m.</td>
<td>3013</td>
<td>Duration of oral contraceptive use and the prevention of gynecologic cancers: Modification by modifiable factors?</td>
<td>Kara A. Michels, Bethesda, MD</td>
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Room 147, Level 1, Washington Convention Center

**Experimental and Molecular Therapeutics**

**Identification of Molecular Targets**

_Chair: Giulio F. Draetta, Houston, TX_

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>3:05 p.m.</td>
<td>3014</td>
<td>BCL3 over-expression contributes an in vivo growth advantage in a B-cell lymphoma xenograft model and is a risk factor for ibrutinib relapse in CLL.</td>
<td>Erin Hertlein, Columbus, OH</td>
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<td>3:20 p.m.</td>
<td>3015</td>
<td>Selective inhibition of mutant KRAS cell and tumor growth by PHT-7.3, an inhibitor of the KRas signaling nanocluster protein Cnk1.</td>
<td>Roisin Delaney, La Jolla, CA</td>
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<tr>
<td>3:35 p.m.</td>
<td>3016</td>
<td>Identification of protein arginine methyltransferase 1 as novel epigenetic vulnerability in KRAS/p53 mutant PDAC primary patient models.</td>
<td>Virginia Giuliani, Houston, TX</td>
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<td>3:50 p.m.</td>
<td>3017</td>
<td>Inhibition of YAP/TAZ-dependent transforming properties in LATS1/2 deleted RPE1 cells by MAPKAPK5 targeting.</td>
<td>Min Hwan Kim, Daejeon, Republic of Korea</td>
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<td>4:05 p.m.</td>
<td>3018</td>
<td>RET rearrangements as promising therapeutic targets in breast cancer.</td>
<td>Bhavna S. Paratala, New Brunswick, NJ</td>
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<td>4:20 p.m.</td>
<td>3019</td>
<td>The role of TACC3 in the progression from ductal carcinoma in situ to invasive breast cancer.</td>
<td>Maya Mathew, Maywood, IL</td>
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<td>4:35 p.m.</td>
<td>3020</td>
<td>Novel therapeutic targets in head and neck cancer.</td>
<td>Maria Kondratyev, Oakville, ON, Canada</td>
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MONDAY, APRIL 3

Ballroom A-B, Level 3, Washington Convention Center

Immunology
Adaptive Immunity in the Tumor Microenvironment

Chair: Charles G. Drake, New York, NY

3:05 p.m.  3021  CCR5 inhibition: Macrophage repolarization therapy for colorectal cancer. Niels Halama, Heidelberg, Germany

3:20 p.m.  3022  Novel hydrocarbon stapled peptide inhibitors suppress β-catenin dependent cancer growth and immunomodulate colorectal tumors. David Zhu, Boston, MA

3:35 p.m.  3023  The antitumor activity of immunotoxins is enhanced by tofacitininib. Nathan Simon, Bethesda, MD

3:50 p.m.  3024  CD4+ outperform CD8+ central memory-derived CAR T cells, mediating persistent antitumor responses and long-term eradication of glioblastoma. Dongrui Wang, Duarte, CA

4:05 p.m.  3025  Preclinical characterization of a novel monoclonal antibody targeting a neo-antigen expressed in ovarian and GI malignancies. Kristen Zeligs, Bethesda, MD

4:20 p.m.  3026  Targeting GPX4 in tumor-associated stromal cells increases inflammatory-cell infiltration. Shrikanta Chattopadhyay, Boston, MA

4:35 p.m.  3027  Dissecting mechanisms of anti-PD-1 therapy with massively parallel single-cell RNA-sequencing. Brian C. Miller, Boston, MA

Room 206, Level 2, Washington Convention Center

Molecular and Cellular Biology/Genetics
Breakthroughs in the Control, Function, and Drivers of Oncogenesis

Cochairs: Michael A. Dyer, Memphis, TN; Conor C. Lynch, Tampa, FL

3:05 p.m.  3028  Reactive oxygen species induced nuclear translocation of c-MET via INTERNET mechanism. Mei-Kuang Chen, Houston, TX

3:20 p.m.  3029  An in vivo role for Argonaute 2 in KRAS driven pancreatic cancer. Sunita Shankar, Ann Arbor, MI

3:35 p.m.  3030  Mutant p53-driven metastasis explored utilizing a traceable, conditional osteosarcoma model. Rasoul Pourebrahimbabadi, Houston, TX

3:50 p.m.  3031  PHIP is a therapeutic target for triple negative solid tumors. David De Semir, San Francisco, CA

4:05 p.m.  3032  Direct regulation of alternative splicing by Smad3 through PCBP1 is essential to the tumor-promoting role of transforming growth factor beta1. Veenu Tripathi, Bethesda, MD
4:20 p.m.  3033  The PRL family of tyrosine phosphatases as a novel drug target in acute lymphoblastic leukemia. Jessica S. Blackburn, Lexington, KY

4:35 p.m.  3034  A programmed ribosomal frameshifting defect potentiates the transforming activity of the JAK2-V617F mutation. Yousuf A. Khan, Potomac, MD

Room 145, Level 1, Washington Convention Center
Molecular and Cellular Biology/Genetics
High Throughput Genomics Dissecting Cancer Development and Vulnerabilities
Chair: Eliezer M. Van Allen, Brookline, MA

3:05 p.m.  3035  Decomposing oncogenic transcriptional signatures to generate maps of divergent cellular states. William J. Kim, Cambridge, MA

3:20 p.m.  3036  Real-time genomic characterization of metastatic pancreatic cancer to enable precision medicine. Andrew J. Aguirre, Boston, MA

3:35 p.m.  3037  Dissecting treatment resistance in patients with ovarian cancer and PDX-models using single-cell RNA-sequencing. Benjamin Izar, Cambridge, MA

3:50 p.m.  3038  Bridging the gap between NGS data and its usability: Cancer gene discovery through massive-scale transcriptomic analyses and development of a powerful web-tool for dissemination of these findings. Yashar Niknafs, Ann Arbor, MI

4:05 p.m.  3039  Combinatorial CRISPR-Cas9 gene knockout to enable genetic interaction mapping in human cells. John Paul Shen, La Jolla, CA

4:20 p.m.  3040  Functional genomic screening identifies USP11 as a novel regulator of ERα transcription in breast cancer. Lisa Dwane, Dublin, Ireland

4:35 p.m.  3041  Duplex Sequencing detects cancer-associated mutations arising during normal aging: Clonal evolution over a century of human lifetime. Jesse J. Salk, Seattle, WA
MONDAY, APRIL 3

Minisymposia (cont’d)

East Salon C, Level 1, Washington Convention Center

Molecular and Cellular Biology/Genetics

The Riddle of the Noncoders: New Functional Roles for miRNAs, Long Noncoding RNAs, and mRNAs

Cochairs: George A. Calin, Houston, TX; Muller Fabbri, Los Angeles, CA

3:05 p.m.  3042  MIR142 loss-of-function mutations promote leukemogenesis through derepression of ASH1L resulting in increased HOX gene expression. Juo-Chin Yao, St. Louis, MO

3:20 p.m.  3043  A novel Cpa3-Cre; miR-9fl/fl mouse reveals a functional role for miR-9 in promoting mast cell invasion via up-regulation of CMA1. Joelle M. Fenger, Columbus, OH

3:35 p.m.  3044  Rapid decay of engulfed extracellular miRNA by XRN1 exonuclease promotes transient epithelial-mesenchymal transition. Paul Hofman, Nice, France

3:50 p.m.  3045  Engineering Mesenchymal Stem Cells (MSCs) to support tumor-targeted delivery of exosome-encapsulated microRNA-379. Roisin M. Dwyer, Galway, Ireland

4:05 p.m.  3046  Identification of lncRNAs involved in regulation of androgen receptor splice variants in prostate cancer through CRISPR-Cas9-based screen. Tsui-Ting Ho, Jackson, MS

4:20 p.m.  3047  PRC2-mediated silencing of circRNA CDR1as drives miR-7-independent melanoma metastasis. Doug Hanniford, New York, NY

4:35 p.m.  3048  A noncoding function of TYRP1 mRNA promotes melanoma growth. Marie-Dominique Galibert, Rennes, France

Room 144, Level 1, Washington Convention Center

Tumor Biology

Early Stages of Metastatic Dissemination

Cochairs: Paula Hurley, Baltimore, MD; Maria S. Sosa, New York, NY

3:05 p.m.  3049  Tracing the origin of disseminated tumor cells in breast cancer using single-cell sequencing. Jonas Demeulemeester, London, United Kingdom

3:20 p.m.  3050  Polymorphisms in the arntl2 promoter affect breast cancer metastasis susceptibility. Ngoc-Han Ha, Bethesda, MD

3:35 p.m.  3051  Mechanism of early dissemination and metastasis in Her2+ mammary cancer. Julio A. Aguirre-Ghiso, New York, NY

3:50 p.m.  3052  Defining the role of EMT in breast cancer dormancy and metastasis in vivo. Kay T. Yeung, San Diego, CA
MONDAY, APRIL 3

4:05 p.m.  3053 Stability and stemness of the hybrid epithelial-mesenchymal phenotype. Mohit Kumar Jolly, Houston, TX

4:20 p.m.  3054 Tracing EMT with fluorescent biosensors (chromobodies) in living cancer cells. Julia Maier, Reutlingen, Germany

4:35 p.m.  3055 A permanent lung imaging window reveals, for the first time, the steps of extravasation, seeding and growth of early metastatic dissemination. Sonia E. Voiculescu, Bronx, NY

Room 150, Level 1, Washington Convention Center
Tumor Biology
Tumor and Stromal Cell Interactions

Cochairs: Bi-Sen Ding, New York, NY; Jason M. Butler, New York, NY

3:00 p.m. Introduction

3:05 p.m.  3056 Genetic deletion of insulin-like growth factor binding protein-7 (IGFBP7) promotes hepatocellular carcinoma (HCC): A novel role of IGFBP7 in regulating antitumor immune surveillance. Maaged A. Akiel, Richmond, VA

3:20 p.m.  3057 Gut microbiome controls liver metastasis. Chi Ma, Bethesda, MD

3:35 p.m.  3058 Syndecan-1 mediates breast cancer metastasis to the brain through IL-8 and PECAM-1 signaling. Sierra Mosticone Wangensteen, Richmond, VA

3:50 p.m.  3059 UHRF1 deficiency exerts antitumor immune responses in non-small cell lung cancer. Handan Xiang, Durham, NC

4:05 p.m.  3060 Role of curcumin in targeting cancer-associated fibroblasts and modulation of tumor microenvironment in dendritic cell-based immunotherapy. Sheefa Mirza, Ahmedabad, India

4:20 p.m.  3061 Tumor-derived PAI-1 promotes macrophage M2 polarization by stimulating an autocrine IL-6/STAT3 pathway. Marta H. Kubala, Los Angeles, CA

4:35 p.m.  3062 Metformin inhibits TGFβ-induced stromal ECM remodeling to impede invasion in ovarian cancer. Peter C. Hart, Chicago, IL
MONDAY, APRIL 3

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

Room 202, Level 2, Washington Convention Center

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

**Moderator:** Phillip A. Sharp, Cambridge, MA

3:00 p.m.  Opening remarks from the SU2C Scientific Advisory Committee Chairperson. Phillip A. Sharp, Cambridge, MA

3:05 p.m.  Modeling tumor heterogeneity and drug response in organoids. Mathew Garnett, Cambridge, United Kingdom

3:28 p.m.  Speaker to be announced

3:51 p.m.  Novel agents targeting breast cancer vulnerabilities. David W. Cescon, Toronto, Ontario, Canada

4:02 p.m.  Personalizing therapeutic choice and risk assessment for ovarian cancer. Barbara Norquist, Seattle, WA

4:37 p.m.  Speaker to be announced

**AWARDS AND LECTURES** • 3:15 p.m.–4:00 p.m.

Room 140, Level 1, Washington Convention Center

An Update from the NCI’s Acting Director

Douglas R. Lowy, Bethesda, MD

**AWARDS AND LECTURES** • 3:30 p.m.–4:15 p.m.

Hall D-E, Level 2, Washington Convention Center

Inaugural AACR-Waun Ki Hong Award for Outstanding Achievement in Cancer Research Therapeutic Resistance in Melanoma

Roger S. Lo, Los Angeles, CA
MEET AND GREET • 4:00 p.m.–5:00 p.m.

AACR Publications Booth (2731), Lower Level, Washington Convention Center

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

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

Room 146, Level 1, Washington Convention Center

Special WICR Presentation Honoring Dr. Charlotte Friend
(not eligible for CME credit)

4:15 p.m. Chair: Patricia M. LoRusso, New Haven, CT

Room 146, Level 1, Washington Convention Center

Twentieth Annual AACR-Women in Cancer Research Charlotte Friend Memorial Lectureship
Multilevel Molecular Analyses in Breast Cancer: Gauging Inter- and Intra-tumor Heterogeneity and Elucidating Its Role in Treatment Response

4:30 p.m. Anne-Lise Børresen-Dale, Oslo, Norway
MONDAY, APRIL 3

**NCI/NIH-SPONSORED SESSION • 4:15 p.m.–6:15 p.m.**

Marquis Ballroom Salons 3-4, Meeting Level 2, Marriott Marquis DC

**NCI’s Center for Cancer Genomics and Cloud Pilots Initiatives: Using Large-Scale Data to Advance Precision Oncology** *(not eligible for CME credit)*

**Cochairs:** Jaime Guidry Auvil, Bethesda, MD; Jean C. Zenklusen, Bethesda, MD; Anthony Kerlavage, Bethesda, MD

**CCG Structural Genomics Initiatives: The Cancer Genome Atlas (TCGA), Clinical Trials Sequencing Program (CTSP) & Cancer Driver Discovery Program (CDDP).** Jean C. Zenklusen, Bethesda, MD

**CCG Structural Genomics Initiatives: ALCHEMIST & Exceptional Responders (ER).** Roy Tarnuzzer, Bethesda, MD

**CCG Structural Genomics Initiatives: Burkitt Lymphoma Genome Sequencing Project (BLGSP) & HIV+ Tumor Molecular Characterization Project (HTMCP).** Nicholas B. Griner, Bethesda, MD

**CCG Structural Genomics Initiatives: Therapeutically Applicable Research to Generate Effective Treatments (TARGET).** Jaime Guidry Auvil, Bethesda, MD

**CCG Functional Genomics Initiatives: Cancer Target and Driver Discovery (CTD2) Network Updates.** Subhashini Jagu, Bethesda, MD

**CCG Functional Genomics Initiatives: Human Cancer Models Initiative.** Caitlyn Barrett, Bethesda, MD

**CCG Computational Genomics Initiative: Genomic Data Commons.** Zhining Wang, Bethesda, MD

**Specific Cancer Genomics Cloud Pilot Initiatives: Seven Bridges Genomics CGC.** Brandi Davis Dusenbery, Cambridge, MA

**Specific Cancer Genomics Cloud Pilot Initiatives: Institute for Systems Biology CGC.** Sheila Reynolds, Seattle, WA

**Specific Cancer Genomics Cloud Pilot Initiatives: Broad Firecloud.** Gad Getz, Cambridge, MA

**Cancer Genomics Cloud Pilot User Talks: Sensitive and specific gene fusion detection in the NCI Seven Bridges Cloud Pilot.** Julia Salzman, Stanford, CA

**Cancer Genomics Cloud Pilot User Talks: Preprocessing, alignment, and quantification of thousands of RNA-sequencing samples in the cloud for a minimal cost.** Stephen Piccolo, Provo, UT

**Cancer Genomics Cloud Pilot User Talks: Overcoming computational limitations in large scale cancer genomic projects with Firecloud.** Chip Stewart, Cambridge, MA
MEET THE RESEARCH ICON • 4:30 p.m.–5:00 p.m.

AACRcentral Amphitheater (Booth 1125), Lower Level, Washington Convention Center
Meet the Research Icon: Carlos L. Arteaga, MD, FAACR, Organized by the Associate Member Council (AMC)
(not eligible for CME credit)
Carlos L. Arteaga, Nashville, TN

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

Room 207, Level 2, Washington Convention Center
Fifty-Seventh Annual AACR G.H.A. Clowes Memorial Award
The Makings of Human B Cell Lymphoma
Riccardo Dalla-Favera, New York, NY

SPECIAL SESSION • 4:45 p.m.–6:00 p.m.

Marquis Ballroom Salons 1-2, Meeting Level 2, Marriott Marquis DC
Targeted Immunotherapeutics Interactome: Beyond Checkpoint Inhibitors
(not eligible for CME credit)
Cochairs: Justin Guinney, Seattle, WA; Rodrigo Dienstmann, Barcelona, Spain

FORUMS • 5:00 p.m.–6:30 p.m.

Room 147, Level 1, Washington Convention Center
Antibody-Drug Conjugates versus Small Molecule-Drug Conjugates: Where Size Matters
Chair: Jennifer R. Cochran, Stanford, CA
Panel: Philip S. Low, W. Lafayette, IN
        Peter D. Senter, Bothell, WA
MONDAY, APRIL 3

Room 151, Level 1, Washington Convention Center
**Aspirin and Cancer Prevention: Ready for Prime Time?**

**Chair:** Andrew T. Chan, Boston, MA

**Panel:** John Burn, Newcastle-upon-Tyne, United Kingdom
Ernest T. Hawk, Houston, TX

Room 144, Level 1, Washington Convention Center
**Is the Cancer Stem Cell an Induced State or a Cellular Entity?**

**Chair:** John E. Dick, Toronto, ON, Canada

**Panel:** Cedric Blanpain, Bruxelles, Belgium
Geoffrey M. Wahl, La Jolla, CA

Room 150, Level 1, Washington Convention Center
**Preclinical Human Cancer Models that May Guide Therapeutic Development**

**Chair:** David A. Tuveson, Cold Spring Harbor, NY

**Panel:** Alana L. Welm, Salt Lake City, UT
James M. Olson, Seattle, WA

Room 152, Level 1, Washington Convention Center
**Should Cancer Genetic Testing Be Offered to Everyone Regardless of Family History?**

**Chair:** Judy E. Garber, Boston, MA

**Population BRCA1/2 testing in Ashkenazi Jewish populations.** Ephrat Levy-Lahad, Jerusalem, Israel

**Considerations for broadening cancer susceptibility testing in specific populations.** William D. Foulkes, Montreal, QC, Canada

Room 145, Level 1, Washington Convention Center
**The Obesity-Cancer Link: Is It Reversible?**

**Chair:** Stephen D. Hursting, Chapel Hill, NC

**Panel:** Carol J. Fabian, Westwood, KS
Henry J. Thompson, Ft. Collins, CO
● SPECIAL SESSIONS • 5:00 p.m.–6:30 p.m.

Room 202, Level 2, Washington Convention Center

AACR/ASCO Joint Session: Clinical Implications of Tumor Heterogeneity

**Cochairs:** Nancy E. Davidson, Seattle, WA; Daniel F. Hayes, Ann Arbor, MI

- **5:00 p.m.** Tumor heterogeneity: From Virchow to victory? Daniel F. Hayes, Ann Arbor, MI
- **5:10 p.m.** Tumor heterogeneity and therapeutic resistance. Jeffrey A. Engelman, Cambridge, MA
- **5:30 p.m.** Tracking genomic heterogeneity during cancer progression. Elaine R. Mardis, Columbus, OH
- **5:50 p.m.** Heterogeneity in breast tumors: More than the sum of its parts. Kornelia Polyak, Boston, MA
- **6:10 p.m.** Clinical implications. Nancy E. Davidson, Seattle, WA
- **6:20 p.m.** Wrap up and Q&A

Ballroom A-B, Level 3, Washington Convention Center

Are There New Hallmarks of Cancer?

**Cochairs:** Douglas Hanahan, Lausanne, Switzerland; Robert A. Weinberg, Cambridge, MA

**Topics**

- Recap of the current hallmarks conceptualization. Douglas Hanahan, Lausanne, Switzerland
- Emerging hallmarks. Robert A. Weinberg, Cambridge, MA
- New “enabling characteristics” and new suspects in the tumor microenvironment. Douglas Hanahan, Lausanne, Switzerland

● TOWN MEETINGS • 5:00 p.m.–6:30 p.m.

Constitution Ballroom C-E, Level 3B, Grand Hyatt Washington

Minorities in Cancer Research Town Meeting
(not eligible for CME credit)

**Chair:** Rick A. Kittles, Tucson, AZ
MONDAY, APRIL 3

Liberty Ballroom, Meeting Level 4, Marriott Marquis DC

Radiation Science and Medicine Working Group Town Hall Meeting and Networking Reception
(not eligible for CME credit)

Chair: Theodore S. Lawrence, Ann Arbor, MI
Moderator: David R. Gius, Chicago, IL
Panelists: Mohamed Abazeed, Cleveland, OH
Timothy A. Chan, New York, NY
Maximilian Diehn, Stanford, CA
Sunitha NAGRATH, Ann Arbor, MI

AWARDS AND LECTURES • 5:15 p.m.–6:00 p.m.

East Salon A-B, Level 1, Washington Convention Center
Eleventh Annual AACR Princess Takamatsu Memorial Lectureship
Lymphoma Therapy Inspired by Functional and Structural Genomics
Louis M. Staudt, Bethesda, MD

SPECIAL SESSION • 5:30 p.m.–6:15 p.m.

Treasury Room, Meeting Level 2, Marriott Marquis DC
Molecular Epidemiology Working Group (MEG) Networking Session with Early-Career Researchers, Part 2: Meet the MEG Experts
(not eligible for CME credit)

Chair: Susan E. Hankinson, Amherst, MA

Job opportunities in industry. Edith A. Perez, South San Francisco, CA

Working in academia. Luis G. Carvajal-Carmona, Davis, CA

Working in consortia. Sophia S. Wang, Duarte, CA

Negotiations: What to consider and strategies to optimize. Melissa L. Bondy, Houston, TX;
Marc T. Goodman, Los Angeles, CA

Advice from the NCI: Grant (including Training Grant) applications. Leah E. Mechanic, MD;
Jonathan S. Wiest, Bethesda, MD
SPECIAL SESSION • 6:00 p.m.–8:00 p.m.

Independence Ballroom A-D, Meeting Level 4, Marriott Marquis DC

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

6:00 p.m.  CIMM Chair: Opening remarks. Patrick Hwu, Houston, TX
6:15 p.m.  Targeting the molecular switch controlling immune suppression for cancer therapy. Judith A. Varner, La Jolla, CA
6:45 p.m.  Interferon signaling and resistance mechanisms to cancer immune checkpoint blockade. Andy J. Minn, Philadelphia, PA
7:15 p.m.  Impacts of tumor cell-intrinsic signaling on the induction and recruitment of antitumor effector T cells. Stefani Spranger, Chicago, IL
7:45 p.m.  TME Chair-Elect: Closing remarks. Valerie M. Weaver, San Francisco, CA

TOWN MEETING • 6:30 p.m.–8:00 p.m.

Independence Ballroom E-H, Meeting Level 4, Marriott Marquis DC

Molecular Epidemiology Working Group (MEG)
Town Hall Meeting and Reception (not eligible for CME credit)

Chair: Susan E. Hankinson, Amherst, MA

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

Independence Ballroom A, Level 5B, Grand Hyatt Washington

Minorities in Cancer Research Professional Advancement Session: Navigating the Road to a Successful Career in Cancer Research (not eligible for CME credit)

Cochairs: Christopher S. Lathan, Boston, MA; Brian M. Rivers, Atlanta, GA

6:30 p.m.  Welcome
6:55 p.m.  Roundtable Discussion 1
7:40 p.m.  Roundtable Discussion 2
Roundtable Mentors to be announced
MEET-THE-EXPERT SESSIONS • 7:00 a.m.–8:00 a.m.

Room 146, Level 1, Washington Convention Center
**Big Data, Omics, and Precision Medicine**
Yu Shyr, Nashville, TN

East Salon A-B, Level 1, Washington Convention Center
**Breast Cancer Genomics and Biomarkers of Therapeutic Responsiveness**
Charles M. Perou, Chapel Hill, NC

Room 152, Level 1, Washington Convention Center
**Changing Landscape of Early Phase Clinical Trials in Oncology**
Shivaani Kummar, Palo Alto, CA

Room 201, Level 2, Washington Convention Center
**Community-Driven Approaches in Cancer Education and Prevention: A Model to Advance Cancer Health Equity**
Brian M. Rivers, Atlanta, GA

Room 150, Level 1, Washington Convention Center
**Dynamics of the Physical Microenvironment: Relevance to Cancer**
Claudia Fischbach-Teschl, Ithaca, NY

Room 206, Level 2, Washington Convention Center
**Elucidating Mechanisms to Overcome Endocrine Therapy Resistance**
Myles A. Brown, Boston, MA

Room 147, Level 1, Washington Convention Center
**Exosomal MicroRNAs Shape the Immune Response and the Biology of the Tumor Microenvironment**
Muller Fabbri, Los Angeles, CA

Room 145, Level 1, Washington Convention Center
**Immunity and Inflammation in Pulmonary Premalignancy**
Steven M. Dubinett, Los Angeles, CA
East Salon C, Level 1, Washington Convention Center
Reprogramming the Tumor Microenvironment Using Angiotensin System Inhibitors to Enhance Cancer Treatment: Bench to Bedside
Rakesh K. Jain, Boston, MA

Room 151, Level 1, Washington Convention Center
The Role of Surgery in Metastatic Disease
Peter L. J. Naredi, Gothenburg, Sweden

Room 207, Level 2, Washington Convention Center
Strategies for Molecular Imaging of Cancer Immunotherapy
David R. Piwnica-Worms, Houston, TX

Room 144, Level 1, Washington Convention Center
Targeting Epigenetic Dependencies in Pediatric Cancers
Kimberly Stegmaier, Boston, MA

Room 143, Level 1, Washington Convention Center
Use of Whole Genome DNA Sequencing and Single Cell RNA Sequencing to Identify Oncogenic Phenotypes of Individual Subclones Present in a Tumor
Andrea Bild, Salt Lake City, UT

Ballroom C, Level 3, Washington Convention Center
Using Genomics in the Clinic to Predict/Harness Neoantigen Biomarkers of Checkpoint Therapy
Catherine J. Wu, Boston, MA

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

Marquis Ballroom Salons 3-4, Meeting Level 2, Marriott Marquis DC
Utilizing “Normal” Genomic Data from the GTEx Project in Cancer Research (not eligible for CME credit)

Moderators: Helen M. Moore, Bethesda, MD; Abhi Rao, Bethesda, MD

Overview of GTEx program and resources. Simona Volpi, Rockville, MD

GTEx: Normal comparator data for cancer research. Gad Getz, Charlestown, MA

Characterizing tumor-adjacent normal tissue: Is it really normal? Dvir Aran, San Francisco, CA

Utilizing GTEx data in the Exceptional Responders program. Linghua Wang, Houston, TX
POSTER SESSIONS • 8:00 a.m.-12:00 p.m.

Exhibit Hall, Lower Level, Washington Convention Center

(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/AACR2017), and the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

Experimental and Molecular Therapeutics
Section 2 Determinants of Drug Sensitivity and Resistance
Section 3 Differentiation Therapy
Section 4 Drug Delivery Technology and Antibody Technology
Section 5 Molecular Medicine
Section 6 Molecular Targeted Therapies 1
Section 7 Novel Mechanisms 1
Section 8 Novel Molecular Targets 2

Cancer Chemistry
Section 9 Drug Design and Optimization Strategies

Prevention Research
Section 10 Strategies and Biomarkers for Clinical Prevention
Section 34 Late-Breaking Research: Epidemiology and Prevention Research

Epidemiology
Section 11 Survivorship Research
Section 34 Late-Breaking Research: Epidemiology and Prevention Research

Molecular and Cellular Biology/Genetics
Section 13 Autophagy and Cancer
Section 14 Cell Growth Signaling Pathways 6
Section 15 Epigenetics 3
Section 16 Genomic Landscape of Breast, Prostate, Ovarian, Melanoma, and Thyroid Cancers
Section 17 Genotype-Phenotype Associations
Section 18 MicroRNAs and Other Noncoding RNAs as Tumor Suppressors or Oncogenes 2
Section 19 Mitosis, Telomeres, and Proliferation Control
Section 20 Noncoding RNAs and Cancer: Expression, Function, and Therapeutics
Section 21 Oncogenic Transcription Factors
Section 22 Regulation of Metabolic Pathways in Cancer

**Bioinformatics and Systems Biology**
Section 23 Sequencing Analysis and Algorithms

**Endocrinology**
Section 25 Nuclear Receptors and Endocrine Oncology Therapies

**Immunology**
Section 26 BITES Bispecifics and Checkpoints
Section 27 Dendritic Cells as Critical Immune Targets
Section 28 Inflammation in the Tumor Microenvironment
Section 35 Late-Breaking Research: Immunology

**Clinical Research**
Section 29 Clinical Laboratory and Imaging Correlates
Section 30 Innate Effectors in Immunity to Cancer
Section 31 Liquid Biopsies 3: Circulating Tumor Cells, Extracellular Vesicles, and Exosomes
Section 32 Predictive Biomarkers 3

**Clinical Trials**
Section 33 Phase I Clinical Trials

**Tumor Biology**
Section 36 Late-Breaking Research: Tumor Biology 2
Section 37 Cell Culture and Animal Models of Cancer 4
Section 38 Pediatric Cancer 2: Epigenetics and Stem Cells
Section 39 Targeting Cancer Stem Cells
Section 40 Tumor Cell Dissemination and the Premetastatic Niche
Section 41 Tumor Evolution and Heterogeneity 2
Section 42 Tumor Microenvironment 5
Section 43 Tumor Microenvironment 6
PLENARY SESSION • 8:15 a.m.–10:15 a.m.

Hall D-E, Level 2, Washington Convention Center
Opportunities in Precision Cancer Medicine

Chair: Sandra J. Horning, San Francisco, CA

8:15 a.m. Introduction. Sandra J. Horning, San Francisco, CA
8:16 a.m. Leveraging premalignant biology for immune-based cancer prevention. Scott M. Lippman, La Jolla, CA
8:45 a.m. Precision medicine and cancer health disparities. Chanita Hughes-Halbert, Charleston, SC
9:15 a.m. Precision medicine lessons from window-of-opportunity trials. Jennifer Rubin Grandis, San Francisco, CA
9:45 a.m. Drug resistance: Tailoring therapies to mechanisms to improve outcomes. Alice T. Shaw, Boston, MA

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

Marquis Ballroom Salon 5, Meeting Level 2, Marriott Marquis DC
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

9:00 a.m. Welcome
9:10 a.m. Understanding cancer. William G. Nelson, Baltimore, MD
9:30 a.m. Keys to cancer prevention. Lucile L. Adams-Campbell, Washington, DC
9:50 a.m. Break
10:05 a.m. Message from a cancer survivor. Jameisha B. Brown, Bryan, TX
10:25 a.m. Why cancer research needs you!
10:45 a.m. Remarks from Career Development Committee and introduction of mentors
11:00 a.m. Tour of exhibits and posters
12:30 p.m.  Lunch
1:15 p.m.  Cancer Bowl
1:45 p.m.  Student poster session
2:20 p.m.  Closing

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

AACR Publications Booth (2731), Lower Level, Washington Convention Center

*Meet the Editor-in-Chief of Molecular Cancer Therapeutics: Napoleone Ferrara, MD*  
(not eligible for CME credit)

Napoleone Ferrara, La Jolla, CA

**SPECIAL SESSION • 10:30 a.m.–11:00 a.m.**

AACR Central Amphitheater (Booth 1125), Lower Level, Washington Convention Center

*Cancer Immunology Working Group (CIMM) Networking Session with Early-Career Researchers*  
(not eligible for CME credit)

**Moderator and Presenter:** Drew M. Pardoll, Baltimore, MD
TUESDAY, APRIL 4

CLINICAL TRIALS PLENARY SESSION 4 • 10:30 a.m.–12:45 p.m.

Ballroom C, Level 3, Washington Convention Center

Novel Immuno-oncology Agent Clinical Trials

Chair: Antoni Ribas, Los Angeles, CA

10:30 a.m.  Introduction

10:33 a.m.  CT114  The MITCI (Phase 1b) study: A novel immunotherapy combination of intralesional Coxsackievirus A21 and systemic ipilimumab in advanced melanoma patients with or without previous immune checkpoint therapy treatment. Darren R. Shafren, New Lambton, Australia

10:48 a.m.  CT115  Phase 1b KEYNOTE 200 (STORM study): A study of an intravenously delivered oncolytic virus, Coxsackievirus A21 in combination with pembrolizumab in advanced cancer patients. Darren R. Shafren, New Lambton, Australia

11:03 a.m.  Discussant to be announced

11:13 a.m.  CT116  BMS-986205, an optimized indoleamine 2,3-dioxygenase 1 (IDO1) inhibitor, is well tolerated with potent pharmacodynamic (PD) activity, alone and in combination with nivolumab (nivo) in advanced cancers in a phase 1/2a trial. Lillian L. Siu, Toronto, ON, Canada

11:28 a.m.  CT117  Interim analysis of the Phase 2 clinical trial of the IDO pathway inhibitor indoximod in combination with pembrolizumab for patients with advanced melanoma. Yousef Zakharia, Iowa City, IA

11:43 a.m.  Discussant. Laura Q. M. Chow, Seattle, WA

11:53 a.m.  CT118  T4 immunotherapy of head and neck squamous cell carcinoma using pan-ErbB targeted CAR T-cells. Sophie Papa, London, United Kingdom

12:08 p.m.  Discussant to be announced

12:18 p.m.  CT119  CPI-444, an oral adenosine A2a receptor (A2aR) antagonist, demonstrates clinical activity in patients with advanced solid tumors. Leisha Emens, Baltimore, MD

12:33 p.m.  Discussant. Bin Zhang, Chicago, IL

12:43 p.m.  Discussion
MAJOR SYMPOSIA • 10:30 a.m.–12:15 p.m.

East Salon A-B, Level 1, Washington Convention Center

Host Immunity to Oncogenic Viruses

Chair: Blossom A. Damania, Chapel Hill, NC

10:30 a.m. Introduction

10:35 a.m. KSHV: Immune evasion and oncogenesis. Blossom A. Damania, Chapel Hill, NC [SY23-01]*

11:05 a.m. Host immune responses to HPV and HPV vaccines. Ligia Pinto, Frederick, MD [SY23-02]*

11:35 a.m. How does HTLV-1 cause leukemia? Charles Bangham, London, United Kingdom [SY23-03]*

Room 146, Level 1, Washington Convention Center

Dharma Master Jiantai Symposium in Biomarkers: Liquid Biopsies—Emerging Technologies to Monitor Cancer Progression and Guide Treatment Selection

Chair: Daniel A. Haber, Charlestown, MA

10:30 a.m. Introduction

10:35 a.m. High-throughput CTC detection for noninvasive cancer monitoring. Daniel A. Haber, Charlestown, MA [SY24-01]*

11:05 a.m. Personalized cancer detection and monitoring via deep sequencing of circulating tumor DNA. Maximilian Diehn, Stanford, CA

11:35 a.m. Inferring expressed tumor driver genes by whole-genome sequencing of plasma DNA for monitoring treatments. Michael R. Speicher, Graz, Austria

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings (the abstract number is listed in brackets above).
Hall D-E, Level 2, Washington Convention Center

**Mechanisms of Primary and Acquired Resistance to Immunotherapy**

**Chair:** Robert H. Vonderheide, Philadelphia, PA

10:30 a.m. **Introduction**

10:35 a.m. **Mechanisms of resistance to anti-PD-1 immunotherapy through interferon pathway mutations.** Jesse Zaretsky, Los Angeles, CA [NG04]*

10:55 a.m. **Antigenic strength vs. tumor microenvironment in determining cancer immunosurveillance.** Robert H. Vonderheide, Philadelphia, PA [SY25-02]*

11:20 a.m. **From the clinic to the lab: Investigating response and resistance mechanisms to immune checkpoint therapy.** Padmanee Sharma, Houston, TX [SY25-03]*

11:45 a.m. **Tumor and host factors regulating immunotherapy responsiveness.** Thomas F. Gajewski, Chicago, IL [SY25-04]*

Room 147, Level 1, Washington Convention Center

**Molecular Signatures as a Window on Etiology**

**Chair:** Michael R. Stratton, Cambridge, United Kingdom

10:30 a.m. **Introduction**

10:35 a.m. **An overview of mutational signatures.** Michael R. Stratton, Cambridge, United Kingdom

11:05 a.m. **A rogues’ gallery of mutational signatures and their causes and consequences.** Steven G. Rozen, Closter, NJ

11:35 a.m. **Local variation of mutation rate in tumors caused by differential DNA repair efficiency.** Nuria Lopez-Bigas, Barcelona, Spain

Room 150, Level 1, Washington Convention Center

**Pediatric Cancer: Epigenetics and Chromatin**

**Chair:** Charles W. Roberts, Memphis, TN

10:30 a.m. **Introduction**

10:35 a.m. **Epigenetic vulnerabilities in pediatric solid tumors.** Rani E. George, Boston, MA

11:05 a.m. **SWI/SNF (BAF) complex mutations in cancer.** Charles W.M. Roberts, Memphis, TN

11:35 a.m. **Oncohistones in cancer: Pickpockets and epigenome hijackers.** Nada Jabado, Montréal, QC, Canada

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings (the abstract number is listed in brackets above).
Room 207, Level 2, Washington Convention Center

**Systemic Metabolic Dysfunction and Cancer**

**Chair:** Cornelia M. Ulrich, Salt Lake City, UT

10:30 a.m. **Introduction**

10:35 a.m. **Stromal contributions of adipocytes to cancer.** Philipp E. Scherer, Dallas, TX [SY28-01]*

11:05 a.m. **The adipose-cancer link: From microenvironment to metabolomics.** Cornelia M. Ulrich, Salt Lake City, UT [SY28-02]

11:35 a.m. **Wasting metabolism: Cancer cachexia and beyond.** Stephan Herzig, Heidelberg, Germany

Room 145, Level 1, Washington Convention Center

**Targeting DNA Damage/Repair in the Genome**

**Chair:** Samuel Aparicio, Vancouver, BC, Canada

10:30 a.m. **Introduction**

10:35 a.m. **Targeting DNA repair factor dysfunction in advanced prostate cancer.** Karen E. Knudsen, Philadelphia, PA [SY29-01]*

11:05 a.m. **Novel mechanisms of PARP inhibitor resistance.** Alan D. D’Andrea, Boston, MA [SY29-02]*

11:35 a.m. **Targeting DNA damage/repair deficiencies in breast/ovarian cancers.** Samuel Aparicio, Vancouver, BC, Canada

**Recent Advances in Diagnostics and Therapeutics Research** • 10:30 a.m. – 12:15 p.m.

Room 151, Level 1, Washington Convention Center

**Combining Imaging and Therapy in Cancer: Advances in Theranostics**

**Chair:** Carolyn J. Anderson, Pittsburgh, PA

10:30 a.m. **Theranostics with Alpha and Auger electron-emitting targeted radionuclide therapy agents.** Michael R. Zalutsky, Durham, NC

11:00 a.m. **177Lu-labeled small molecule theranostics for metastatic melanoma and prostate cancer.** Carolyn J. Anderson, Pittsburgh, PA

11:30 a.m. **Recent advances in theranostics targeting PSMA and CXCR4.** Margret Schottelius, Munich, Germany

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings (the abstract number is listed in brackets above).
Ballroom A-B, Level 3, Washington Convention Center

CRISPR Technologies and the Identification of Cancer

Chair: William C. Hahn, Boston, MA

10:30 a.m.  Systematic identification of cancer dependencies and targets. William C. Hahn, Boston, MA

11:05 a.m.  Domain-focused CRISPR screening. Christopher R. Vakoc, Cold Spring Harbor, NY

11:40 a.m.  CRISPR-Cas9-based genetic screens to cancer. David M. Sabatini, Cambridge, MA

RECENT ADVANCES IN ORGAN SITE RESEARCH

10:30 a.m.–12:15 p.m.

Room 202, Level 2, Washington Convention Center

Advances in Breast Cancer Therapy

Chair: Leisha A. Emens, Baltimore, MD

10:30 a.m.  Targeting the Cyclin D:cdk-4/6 pathway in ER + breast cancer: Opportunities and challenges. Dennis J. Slamon, Los Angeles, CA

11:00 a.m.  Breast cancer immunotherapy: Recent success and new strategies. Leisha A. Emens, Baltimore, MD

11:30 a.m.  Targeting genomic instability for breast cancer treatment. Andrew Tutt, London, United Kingdom

Room 144, Level 1, Washington Convention Center

Biology and Treatment of Hepatocellular Carcinoma

Chair: J.H. Ou, Los Angeles, CA

10:30 a.m.  Hepatitis B virus and autophagy in hepatocarcinogenesis. J.H. Ou, Los Angeles, CA

11:00 a.m.  Noninvasive DNA and glycoproteomic detection and characterization of hepatocellular carcinoma. Timothy M. Block, Doylestown, PA

11:30 a.m.  From HBV and HCV pathobiology to the prevention of hepatocellular carcinoma in the clinic. Fabien Zoulim, Utrecht, Netherlands
**RECENT ADVANCES IN PREVENTION RESEARCH**  
10:30 a.m.–12:15 p.m.

Room 152, Level 1, Washington Convention Center  
**The Emerging Role of Inherited Genetic Risk Factors in Precision Prevention**

**Chair:** Kenneth Offit, New York, NY

- **10:30 a.m.**  
  *Next generation germline sequencing to target prevention.* Kenneth Offit, New York, NY

- **11:00 a.m.**  
  *Toward a biological basis for cancer prevention and early detection.*  
  Timothy R. Rebbeck, Boston, MA

- **11:30 a.m.**  
  *Recent advances in precision prevention for inherited GI cancer syndromes: The case for Lynch syndrome and FAP.*  
  Niloy Jewel Samadder, Salt Lake City, UT

**REGULATORY SCIENCE AND POLICY SESSION**  
10:30 a.m.–12:15 p.m.

Room 143, Level 1, Washington Convention Center  
**Reference Materials for Next Generation Sequencing (NGS)-Based Tests**

**Cochairs:** Elaine R. Mardis, Columbus, MO; David Litwack, Silver Spring, MD

**Speakers:**  
- Zivana Tezak, Silver Spring, MD  
- Maryellen de Mars, Manassas, VA  
- Girish Putcha, Columbia, SC  
- Marc Salit, Stanford, CA  
- Kenna Mills Shaw, Houston, TX  
- Jeffrey M. Trent, Phoenix, AZ
TUESDAY, APRIL 4

★ SCIENCE POLICY SESSION • 10:30 a.m.-12:15 p.m.

Room 201, Level 2, Washington Convention Center
The Potential Impact on Cancer Patients of a Repeal or Revision of the Affordable Care Act
Chair: Gilbert S. Omenn, Ann Arbor, MI
Speakers: Andrea Bargellini, Bronx, NY
Diana Chingos, Los Angeles, CA
Chiara D’Agostino, Montclair, NJ

★ MAJOR SYMPOSIUM • 10:30 a.m.-12:30 p.m.

Room 206, Level 2, Washington Convention Center
Minorities in Cancer Research Scientific Symposium: The Role of Diverse Populations in Precision Medicine
Co-chairs: Rick A. Kittles, Tucson, AZ; Laura Fejerman, Berkeley, CA

10:30 a.m. Introduction
10:40 a.m. The mutational landscapes of African American colon cancers. Kishore Guda, Cleveland, OH
11:00 a.m. Polygenic risk score for breast cancer risk prediction in Latinas: Does one size fit all? Elad Ziv, San Francisco, CA
11:20 a.m. Prostate cancer in African Americans: Unique molecular and genomic characteristics and how they might impact treatment and prognosis. Isaac J. Powell, Detroit, MI
11:40 a.m. Human demographic history impacts genetic risk prediction across diverse populations. Eimear Kenny, New York, NY
12:00 p.m. Panel discussion
12:25 p.m. Closing
NCI/NIH-SPONSORED SESSION • 10:30 a.m.–12:30 p.m.

Marquis Ballroom Salons 3-4, Meeting Level 2, Marriott Marquis DC
Funding Opportunities for Cancer Research at Multiple National Institutes of Health (NIH) Institutes and Centers with NIH Experts
(not eligible for CME credit)

Cochairs: Phuong Kim Pham, Bethesda, MD; Julia T. Arnold, Bethesda, MD

Speakers:
- Julia T. Arnold, Bethesda, MD
- Alison Deckhut Augustine, Bethesda, MD
- Jane W. Fountain, Bethesda, MD
- Pamela Anne Marino, Bethesda, MD
- Kimberly A. McAllister, Res. Triangle Park, NC
- Gary J. Murray, Bethesda, MD
- Phuong Kim Pham, Bethesda, MD
- Syed Musaddaq Quadri, Bethesda, MD
- Sundar Venkatachalam, Bethesda, MD

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

East Salon C, Level 1, Washington Convention Center
Radiation Science and Medicine Working Group Special Scientific Session: Fundamental Advances in Induced Modeling and Signatures for Radiation Carcinogenesis

Moderator: Robert G. Bristow, Toronto, ON, Canada

10:30 a.m. Introduction. Robert G. Bristow, Toronto, ON, Canada

10:40 a.m. Sublethal activation of caspases and its roles in radiation therapy and carcinogenesis. Chuan-Yuan Li, Durham, NC

11:08 a.m. Radiation exposure alters the adaptive landscape for oncogenic events. James V. DeGregori, Aurora, CO

11:36 p.m. Mutational signatures of radiation exposure. Peter J. Campbell, Cambridge, United Kingdom

12:04 p.m. Post-radiation mutational signatures. Jean L. Nakamura, San Francisco, CA
Special Sessions (cont’d)

TUESDAY, APRIL 4

Marquis Ballroom Salons 1-2, Meeting Level 2, Marriott Marquis DC

**SU2C Innovative Research Grant Poster Session**
(not eligible for CME credit)

**Targeting cellular plasticity in individual basal-type breast cancer cells.** John G. Albeck, Davis, CA

**Uncovering how Rad51 paralog mutations contribute to cancer predisposition.** Kara A. Bernstein, Pittsburgh, PA

**Phospholipid messengers as drivers of dendritic cell dysfunction in cancer.** Juan R. Cubillos-Ruiz, New York, NY

**Metabolic reprogramming using oncolytic viruses to improve immunotherapy.** Greg M. Delgoffe, Pittsburgh, PA

**“Weak links” in cancer proteostasis networks as new therapeutic targets.** Martin Kampmann, San Francisco, CA

**Algorithmically-driven quantitative combination cancer therapy engineering.** Daniel Landau, New York, NY

**Deubiquitinating enzymes as novel anticancer targets.** Li Ma, Houston, TX

**Imaging cell-level heterogeneity in solid tumors for personalized treatment.** Melissa C. Skala, Madison, WI

**Defining the metabolic dependencies of tumors.** Matthew G. Vander Heiden, Cambridge, MA

**Defining the mechanistic connections between injury, regeneration, and cancer.** Hao Zhu, Dallas, TX

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**CAREER DISCUSSIONS • 11:30 a.m.–12:15 p.m.**

AACRcentral Amphitheater (Booth 1125), Lower Level, Washington Convention Center

**Putting Yourself on the Map: Strategies to Increase Your Visibility within the Academic Community, Organized by the Associate Member Council (AMC)**
(not eligible for CME credit)

**Speakers:** Christine M. Lovly, Nashville, TN
Nikhil Wagle, Newton, MA
● **MEET AND GREET • 12:00 p.m.-1:00 p.m.**

AACRcentral (Booth 1125), WICR Resource Center, Lower Level, Washington Convention Center

**Meet the AACR-Women in Cancer Research Charlotte Friend Memorial Lecturer**

(not eligible for CME credit)

Anne-Lise Børresen-Dale, Oslo, Norway

● **MEET THE RESEARCH ICON • 12:30 p.m.-1:00 p.m.**

AACRcentral Amphitheater (Booth 1125), Lower Level, Washington Convention Center

**Meet the Research Icon: Karen H. Vousden, PhD, Organized by the Associate Member Council (AMC)**

(not eligible for CME credit)

Karen H. Vousden, Glasgow, United Kingdom

● **MEET AND GREET • 12:30 p.m.-1:30 p.m.**

AACRcentral (Booth 1125), MICR Resource Center, Lower Level, Washington Convention Center

**Meet the Director and Staff of the NCI Center to Reduce Cancer Health Disparities**

(not eligible for CME credit)

**Chair:** Sanya A. Springfield, Bethesda, MD
TUESDAY, APRIL 4

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

Marquis Ballroom Salons 3-4, Meeting Level 2, Marriott Marquis DC

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

Cochairs: Thomas J. Siepmann, Springfield, VA; Phuong Kim Pham, Bethesda, MD

Speakers: Joseph G. Contrera, Baltimore, MD
   Jason V. Cristofaro, Bethesda, MD
   Steven M. Ferguson, Rockville, MD
   Phuong Kim Pham, Bethesda, MD
   Sana Pratt, Bethesda, MD
   Rayna Bauzo Rodriguez, Alexandria, VA
   Thomas J. Siepmann, Springfield, VA

**SPECIAL SESSION** • 12:45 p.m.–2:45 p.m.

East Salon C, Level 1, Washington Convention Center

Pediatric Cancer Working Group Special Scientific Session: Emerging Topics in Pediatric Cancer

Moderators: Crystal L. Mackall, Stanford, CA; Garrett M. Brodeur, Philadelphia, PA

12:45 p.m. Epimutations in childhood cancer. Frank Westermann, Heidelberg, Germany

1:15 p.m. Exploiting metabolic dependencies encoded by MYC hyperactivation. Michael D. Hogarty, Philadelphia, PA

1:45 p.m. Identification of pediatric solid tumor vulnerabilities through integrated analysis. Michael A. Dyer, Memphis, TN

2:15 p.m. Qualitative and quantitative imaging in pediatric oncology. Mary-Louise Greer, Toronto, ON, Canada
MEET AND GREET • 1:00 p.m.–2:00 p.m.

AACR Publications Booth (2731), Lower Level, Washington Convention Center
Meet the Editor-in-Chief of Cancer Prevention Research: Scott M. Lippman, MD
(not eligible for CME credit)

Scott M. Lippman, La Jolla, CA

MAJOR SYMPOSIA • 1:00 p.m.–2:45 p.m.

Room 152, Level 1, Washington Convention Center
Dysregulation of MicroRNAs Leads to Target Therapy
Chair: Carlo M. Croce, Columbus, OH

1:00 p.m. Introduction
1:05 p.m. The new genetics and treatment of CLL. Carlo M. Croce, Columbus, OH
1:30 p.m. MicroRNA-based therapeutics in cancer. Frank J. Slack, Boston, MA
1:55 p.m. TP53-mediated human cancer susceptibility is defined by epigenetic dysregulation of microRNA-34A. Nardin Samuel, Markham, Ontario, Canada [NG05]*
2:15 p.m. About Chomsky, patterns, and noncoding RNAs cancer therapeutics. George A. Calin, Houston, TX [SY32-04]*

Hall D-E, Level 2, Washington Convention Center
Immunometabolism in Immunotherapy
Chair: Jonathan D. Powell, Baltimore, MD

1:00 p.m. Introduction
1:05 p.m. Targeting metabolism to enhance immunotherapy. Jonathan D. Powell, Baltimore, MD [SY33-01]*
1:35 p.m. Fueling T cells and antitumor immunity. Jeffrey C. Rathmell, Nashville, TN [SY33-02]*
2:05 p.m. Impact of metabolic deviations in neoplastic cells on anticancer immunosurveillance. Guido Kroemer, Villejuif, France

*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 202, Level 2, Washington Convention Center

**International Cancer Genomic Studies**

**Chair:** Bin Tean Teh, Academia, Singapore

1:00 p.m.  Introduction

1:05 p.m.  Insights from genomics inform molecular pathogenesis, classification, and therapy for Barrett’s esophagus and esophageal adenocarcinoma. Rebecca C. Fitzgerald, Cambridge, United Kingdom

1:35 p.m.  Cancer genome profiling in diverse patient populations. John D. Carpten, Los Angeles, CA

2:05 p.m.  Updates on Asia-centric cancer genomics: Biliary tract and herbal carcinogen-related cancers. Bin Tean Teh, Academia, Singapore

Room 146, Level 1, Washington Convention Center

**Metastasis and the Tumor Microenvironment**

**Chair:** Melody A. Swartz, Chicago, IL

1:00 p.m.  Introduction

1:05 p.m.  Macrophages--evildoers in cancer. Jeffrey W. Pollard, Edinburgh, United Kingdom [SY31-02]*

1:35 p.m.  Cellular and molecular deconvolution of human pancreatic cancers. Andreas Trumpp, Heidelberg, Germany

2:05 p.m.  Lymphatic transport of tumor-secreted exosomes. Melody A. Swartz, Chicago, IL

Ballroom A-B, Level 3, Washington Convention Center

**Single Cell Cancer Genomics: From Tumor Heterogeneity to Drug Target Discovery**

**Chair:** Ido Amit, Rehovot, Israel

1:00 p.m.  Introduction

1:05 p.m.  An atlas of the tumor immune system. Dana Pe’er, New York, NY

1:35 p.m.  Dissecting tumor heterogeneity by microtissue phenotyping and single cell transcriptomics. Roland Eils, Heidelberg, Germany

2:05 p.m.  The power of one: Cancer-immunology in the age of single cell genomics. Ido Amit, Rehovot, Israel

*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 147, Level 1, Washington Convention Center

**Surgery in the 21st Century: Convergence of Genes, Imaging, and Robots**

**Chair:** Dan Theodorescu, Aurora, CO

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

**1:05 p.m.** Imaging to stage tumor prior to surgery. Wolfgang A. Weber, New York, NY

**1:30 p.m.** Optimizing neoadjuvant therapy prior to surgery: Biomarker and target discovery. Dan Theodorescu, Aurora, CO [SY36-01]*

**1:55 p.m.** Surgery using intraoperative molecular imaging. Sunil Singhal, Philadelphia, PA

**2:20 p.m.** Monitoring cancer and predicting recurrence using cell-free tumor DNA. Nitzan Rosenfeld, Cambridge, United Kingdom

Room 207, Level 2, Washington Convention Center

**Dharma Master Jiantai Symposium in Targeted Therapy: Transformative Small Molecule Therapies**

**Chair:** Kevan Michael Shokat, San Francisco, CA

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

**1:05 p.m.** Targeting KRAS mutant cancers with a covalent G12C-specific inhibitor. Yi Liu, La Jolla, CA (not eligible for CME credit)

**1:35 p.m.** Ligand-directed degradation of GSPT1 by a novel cereblon modulator drives potent antitumor effects. Philip Chamberlain, San Diego, CA [SY37-02]*

**2:05 p.m.** Overcoming kinase inhibitor resistance and dealing with biologic redundancy: mTOR and K-Ras. Kevan Michael Shokat, San Francisco, CA

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings (the abstract number is listed in brackets above).
TUESDAY, APRIL 4

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

Room 150, Level 1, Washington Convention Center

**Nanotechnology for Cancer Diagnosis and Therapy**

Chair: Ugur Sahin, Mainz, Germany

1:00 p.m.  **Nanoparticle delivery of drugs and genes to desmoplastic tumors.** Leaf Huang, Chapel Hill, NC

1:30 p.m.  **Oncolytic viruses for the treatment of cancer.** John C. Bell, Ottawa, ON, Canada

2:00 p.m.  **Systemic delivery of mRNA for cancer immunotherapy.** Ugur Sahin, Mainz, Germany (not eligible for CME credit)

East Salon A-B, Level 1, Washington Convention Center

**New Mechanisms of Intercellular Communication: Extracellular Vesicles and Extracellular RNAs**

Chair: Clotilde Thery, Paris, France

1:00 p.m.  **Biogenesis and functions of EVs and associated nucleic acids in tumor-immune system crosstalk.** Clotilde Thery, Paris, France

1:30 p.m.  **Extracellular RNAs as liquid biopsy source for cancer diagnostics.** D. Michiel Pegtel, Amsterdam, Netherlands

2:00 p.m.  **Exploiting exosomes biology for diagnosis and treatment of pancreatic cancer.** Raghu Kalluri, Houston, TX

**RECENT ADVANCES IN ORGAN SITE RESEARCH**

1:00 p.m.–2:45 p.m.

Room 145, Level 1, Washington Convention Center

**The Molecular Pathogenesis of Myelodysplasia**

Chair: Maria Eugenia Figueroa, Ann Arbor, MI

1:00 p.m.  **The genetics of myeloid neoplasia: From clonal hematopoiesis to acute leukemia.** Benjamin L. Ebert, Boston, MA
1:30 p.m. Epigenetic deregulation of aging hematopoietic stem cells. Maria Eugenia Figueroa, Miami, FL

2:00 p.m. Understanding and targeting spliceosomal gene mutations in MDS. Omar Abdel-Wahab, New York, NY

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

Ballroom C, Level 3, Washington Convention Center

**Premalignant Lesions as Targets for Immunoprevention**

Chair: Olivera J. Finn, Pittsburgh, PA

1:00 p.m. The cystine/glutamate anitporter (xCT): A new cancer stem cell target for anticancer vaccines. Federica Cavallo, Turin, Italy

1:25 p.m. Vaccination in patients with low-grade glioma aiming at prevention of high-grade transformation. Hideho Okada, San Francisco, CA

1:50 p.m. Antigens and vaccines for prevention of nonviral cancers. Olivera J. Finn, Pittsburgh, PA

2:15 p.m. Synthetic DNA vaccine technology for immuno-oncology applications. David Weiner, Philadelphia, PA

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

Room 143, Level 1, Washington Convention Center

**Immuno-oncology Combination Therapies**

Chair: Geoffrey Kim, Silver Spring, MD

Speakers: Chao Liu, Silver Spring, MD
Amy Rosenberg, Silver Spring, MD
Daniel S. Chen, San Francisco, CA
Bernard Fox, Portland, OR
Elizabeth Jaffee, Baltimore, MD
Sreeneeranj Kasichayanula, Thousand Oaks, CA (not eligible for CME credit)
TUESDAY, APRIL 4

○ SCIENCE POLICY SESSION • 1:00 p.m.-2:45 p.m.

Room 201, Level 2, Washington Convention Center
E-cigarettes: Are They a Public Health Threat or a Useful Cessation Tool?

Chair: Benjamin A. Toll, Charleston, SC
Speakers: Rachel Grana, Rockville, MD
Roy S. Herbst, New Haven, CT
Brian Kelly, Atlanta, GA
Lion Shahab, London, United Kingdom

○ POSTER SESSIONS • 1:00 p.m.-5:00 p.m.

Exhibit Hall, Lower Level, Washington Convention Center
(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/AACR2017), and the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

Experimental and Molecular Therapeutics
Section 1 Assay Technology
Section 2 Combination Therapies and Approaches to Sensitize Cancer Cells to Drugs
Section 3 Mechanistic Understanding of Novel Anticancer Therapies
Section 4 Molecular Targeted Therapies 2
Section 5 New Targets and New Drugs
Section 6 Novel Mechanisms 2
Section 7 Targeting Protein Kinases and DNA Repair

Cancer Chemistry
Section 8 Drug Screening Innovation

Prevention Research
Section 10 Population Science in Cancer Prevention Research
Epidemiology
Section 11 Biomarkers of Endogenous or Exogenous Exposures, Early Detection, and Biologic Effects
Section 12 Familial and Hereditary Cancers

Molecular and Cellular Biology/Genetics
Section 13 Cell Death in Cancer
Section 14 Cell Growth Signaling Pathways 7
Section 15 Epigenetics 4
Section 16 Genomic Landscape of Head and Neck and GI Cancers
Section 17 Metabolic Regulation and Cancer Therapy 1
Section 18 MicroRNA Profiling in Cancer
Section 20 Oncogenes and Tumor Suppressors 2
Section 21 Post-transcriptional and Translational Regulation in Cancer
Section 22 Tumor Hypoxia and the Unfolded Protein Response
Section 35 Late-Breaking Research: Molecular and Cellular Biology 3

Bioinformatics and Systems Biology
Section 24 Modeling and Algorithms

Immunology
Section 25 Clinical Immunotherapy, Viruses, and Bacteria
Section 26 Immunoconjugates and Antibodies
Section 27 Innate Immune Response to Cancer

Clinical Research
Section 28 Diagnostic Biomarkers
Section 29 Epigenetics and DNA Repair
Section 30 Immunomodulatory Agents and Therapeutics
Section 31 Prognostic Biomarkers 1
Section 32 Radiobiology and Radiotherapy
Section 34 Late-Breaking Research: Clinical Research 2/Endocrinology

Clinical Trials
Section 33 Phase I-III Clinical Trials and Pediatric Clinical Trials
TUESDAY, APRIL 4

**Tumor Biology**
Section 37  Cancer Stem Cells
Section 38  Carcinogenesis, Models, and Tumor Biology
Section 39  Cell Culture and Animal Models of Cancer 5
Section 41  Metastasis Suppressors and Promoters
Section 42  Pediatric Cancer 3: Genetics and Genomics
Section 43  Therapeutic Intervention of Cancer and Metastasis
Section 44  Tumor Microenvironment 7

**MEET AND GREET • 1:30 p.m.-2.30 p.m.**

AACRcentral Amphitheater (Booth 1125), Lower Level, Washington Convention Center
**Meet the 2017-2018 AACR President, Michael A. Caligiuri, MD**
(not eligible for CME credit)
Michael A. Caligiuri, Columbus, OH

**MEET AND GREET • 2:00 p.m.–3:00 p.m.**

AACR Publications Booth (2731), Lower Level, Washington Convention Center
**Meet the Editor-in-Chief of Molecular Cancer Research:**
Karen E. Knudsen, PhD
(not eligible for CME credit)
Karen E. Knudsen, Philadelphia, PA

**MEET AND GREET • 2:30 p.m.–3:15 p.m.**

AACRcentral Amphitheater (Booth 1125), Lower Level, Washington Convention Center
**Meet the Career Development Committee**
(not eligible for CME credit)
Chair: Kathleen W. Scotto, New Brunswick, NJ
• **NCI/NIH-SPONSORED SESSION** • 2:45 p.m.–4:45 p.m.

Marquis Ballroom Salons 3-4, Meeting Level 2, Marriott Marquis DC
**NCI Cross-Disciplinary Programs Supporting Integrated Cancer Research**
(not eligible for CME credit)

**Moderator:** Juli Klemm, Rockville, MD

**IMAT, ITCR, CSBC, and PS-ON program overviews**
**Speakers:** Anthony Dickherber, Marietta, GA
Juli Klemm, Rockville, MD
Shannon Hughes, Bethesda, MD
Nastaran Zahir Kuhn, Bethesda, MD

**Technologies for advanced -omic analysis**
**Speakers:** Chang Lu, Blacksburg, VA
Alexander Krasnitz, Cold Spring Harbor, NY
Peter A. Sims, New York, NY

**Technologies for defining the cancer interactome**
**Speakers:** Zhenghe John Wang, Cleveland, OH
Joshua M. Stuart, Santa Cruz, CA
Nevan J. Krogan, San Francisco, CA

• **AWARDS AND LECTURES** • 3:00 p.m.–3:45 p.m.

Room 202, Level 2, Washington Convention Center
**Eleventh Annual AACR Award for Outstanding Achievement in Chemistry in Cancer Research**
**PROTACs: Targeted Protein Degradation as a Therapeutic Strategy**

Craig M. Crews, New Haven, CT
TUESDAY, APRIL 4

REGULATORY SCIENCE AND POLICY SESSION
3:00 p.m.–4:45 p.m.

Room 143, Level 1, Washington Convention Center
New Drugs—A Review of Recently Approved Breakthrough Therapies

Chair: Amy E. McKee, Silver Spring, MD

Speakers: Sanjeeve Balasubramaniam, Silver Spring, MD
          Leslie Doros, Silver Spring, MD
          Daniel Suzman, Silver Spring, MD
          Deborah Armstrong, Baltimore, MD
          Dan Theodorescu, Aurora, CO
          Katie Armstrong, Boston, MA

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

Hall D-E, Level 2, Washington Convention Center
Novel Agent and Intervention Clinical Trials

Chair: Hui Gan, Melbourne, Australia

3:00 p.m. Introduction

3:05 p.m. CT149 Copanlisib in patients with relapsed or refractory indolent B-cell lymphoma: Primary results of the pivotal Chronos-1 study. Martin Dreyling, Munich, Germany

3:20 p.m. CT150 Optimizing the therapeutic index of HDM2 inhibition: Results from a dose- and regimen-finding Phase I study of NVP-HDM201 in patients with TP53 wt advanced tumors. David M. Hyman, New York, NY

3:35 p.m. CT151 CNS activity of ensartinib in ALK-positive non-small cell lung cancer patients. Leora Horn, Nashville, TN

3:50 p.m. CT152 Phase I dose- and regimen-finding study of NVP-HDM201 in patients with advanced TP53 wt acute leukemias. Eytan Stein, New York, NY

4:05 p.m. CT153 First-in-human study of the first-in-class fatty acid synthase (FASN) inhibitor TVB-2640. Gerald Falchook, Denver, CO

4:20 p.m. CT154 Optimization of the dose and schedule of an HDM2 inhibitor NVP-HDM201 in a first-in-human Phase I study using a mechanism-based PK/PD model. Christophe Meille, Basel, Switzerland
4:35 p.m.  **CT155**  Phase 2 study of sacituzumab govitecan (IMMU-132), an anti-Trop-2/SN-38 antibody-drug conjugate (ADC), in patients with pretreated metastatic small-cell lung cancer (mSCLC).  Jhanelle E. Gray, Tampa, FL

4:50 p.m.  **CT156**  Novel neoadjuvant targeted therapy trial yields insight into molecular mechanisms of response.  Scott E. Woodman, Houston, TX

**FORUM**  • 3:00 p.m.–5:00 p.m.

Room 140, Level 1, Washington Convention Center

**Minorities in Cancer Research Forum: Academic Relevance: Mission-Driven Career**  
(Not eligible for CME credit)

**Cochairs:** Robert A. Winn, Chicago, IL; Sanya A. Springfield, Bethesda, MD

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

3:10 p.m.  **Empowering patients through research and engagement.**  Victoria L. Seewaldt, Duarte, CA

3:30 p.m.  **Examining cancer disparities through a basic science lens.**  Clayton Yates, Tuskegee, AL

3:50 p.m.  **Developing a health disparities research agenda.**  Lucile L. Adams-Campbell, Washington, DC

4:10 p.m.  **Panel discussion moderator and closing remarks.**  Robert A. Winn, Chicago, IL

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

Room 152, Level 1, Washington Convention Center

**AACR-CSCO Joint Symposium: Tumor Microenvironment**

**Cochairs:** David C. Lyden, New York, NY; Ruibao Ren, Shanghai, China

3:00 p.m.  **Tumor exosomes prepare premetastatic niches at organ-specific sites.**  David C. Lyden, New York, NY

3:30 p.m.  **Communication between cancer cells and immune cells in the tumor microenvironment: A therapeutic implication.**  Jiuwei Cui, Changchun, China

4:00 p.m.  **Decoding the premetastatic niche with label-free Raman spectroscopic imaging.**  Ishan Barman, Baltimore, MD

4:30 p.m.  **Targeting RAS in cancer.**  Ruibao Ren, Shanghai, China

**PROGRAM GUIDE**
TUESDAY, APRIL 4

Late-Breaking Minisymposium • 3:00 p.m.–5:00 p.m.

Room 147, Level 1, Washington Convention Center

Late-Breaking Research
Chair: Andrea Califano, New York, NY

3:00 p.m. Introduction
3:05 p.m. LB-285 Glycemia is positively associated with prostate cancer mortality in white and black men without diabetes when better classifying hyper- and normoglycemia using 3 biomarkers. Michael Marrone, Baltimore, MD
3:20 p.m. LB-286 ARID1A loss impairs enhancer-mediated gene regulation and drives colon cancer in mice. Radhika Mathur, Boston, MA
3:35 p.m. LB-287 Identification of patients at risk for tumor predisposition syndromes based on the evaluation of sporadic cancer exome sequencing data: Experiences from the NCT/DKTK MASTER program. Evelin Schröck, Dresden, Germany
3:50 p.m. LB-288 An allosteric PRC2 inhibitor targeting the H3K27me3 binding pocket of EED. Wei Qi, Shanghai, China
4:05 p.m. LB-289 Computational detection of oncogene-centric pathway members. Joshua Broyde, New York, NY
4:20 p.m. LB-290 Oncometabolites induce a BRCAness state that can be exploited by PARP inhibitors. Ranjit S. Bindra, New Haven, CT
4:35 p.m. LB-291 Identification of CMTM6 and CMTM4 as PD-L1 protein regulators. Chong Sun, Amsterdam, The Netherlands
4:50 p.m. Discussion

Minisymposia • 3:00 p.m.–5:00 p.m.

Room 146, Level 1, Washington Convention Center

Clinical Research
Liquid Biopsies 4
Chair: Luis A. Diaz, Baltimore, MD; Shyamala Maheswaran, Charlestown, MA

3:00 p.m. Introduction
3:05 p.m. 4949 Longitudinal monitoring of cell-free DNA in patients with small cell lung cancer reveals dynamic insights into treatment efficacy and disease relapse. Christine M. Lovly, Nashville, TN
3:20 p.m.  4950  The emergence of ESR1 mutations is associated with aromatase inhibitor and fulvestrant therapy. Yanan Kuang, Boston, MA

3:35 p.m.  4951  Dynamics of KIT exon 11 mutations in cell free plasma DNA of patients treated for advanced gastrointestinal stromal tumors: Results from the Dutch GIST bio-databank. Pieter A. Boonstra, Groningen, Netherlands

3:50 p.m.  4952  Whole exome sequencing of circulating tumor DNA highlights spatial and temporal tumor heterogeneity in neuroblastoma. Gudrun Schleiermacher, Paris, France

4:05 p.m.  4953  Single cell signaling analysis reveals circulating tumor cell markers of drug susceptibility and tumor heterogeneity. N. Murat Karabacak, Charlestown, MA

4:20 p.m.  4954  Clinical validation of a cell-free DNA liquid biopsy approach for noninvasive molecular profiling. Monica Nesselbush, Baltimore, MD

4:35 p.m.  4955  PD-L1 expression on circulating epithelial tumor cells (CETCs) correlates with the presence of metastasis in breast cancer patients and differs from PD-L2 expression. Monika Pizon, Bayreuth, Germany

Room 204, Level 2, Washington Convention Center

Epidemiology

Molecular and Genetic Epidemiology

Cochairs: Lorelei A. Mucci, Boston, MA; Celine M. Vachon, Rochester, MN

3:00 p.m.  Introduction

3:05 p.m.  4956  Transcriptome-wide association study identifies new prostate cancer susceptibility genes in the OncoArray data. Nicholas Mancuso, Los Angeles, CA

3:20 p.m.  4957  Gene expression signature of Gleason score is associated with prostate cancer outcomes in a radical prostatectomy cohort. Min A. Jhun, Seattle, WA

3:35 p.m.  4958  Prediagnostic peripheral blood DNA methylation and lung cancer survival. Jennifer A. Doherty, Salt Lake City, UT

3:50 p.m.  4959  The RANK-axis and breast cancer risk by hormone receptor subtype: Results from the EPIC cohort. Renée T. Fortner, Heidelberg, Germany

4:05 p.m.  4960  Recent ultraviolet radiation exposure and circulating immunosuppressive T-regulatory cells. Dana E. Rollison, Tampa, FL

4:20 p.m.  4961  The oral microbiome and prospective risk for esophageal cancer: A population-based nested case-control study. Brandilyn A. Peters, New York, NY

4:35 p.m.  4962  Geographic disparities in prevalence of baseline prostate inflammation and prostate cancer risk: Results from a multinational trial. Emma H. Allott, Chapel Hill, NC
Room 144, Level 1, Washington Convention Center

Experimental and Molecular Therapeutics
Novel Approaches for Experimental Therapeutics

Cochairs: Lori S. Friedman, South San Francisco, CA; Pamela Carroll, Boston, MA

3:00 p.m.  Introduction

3:05 p.m.  4963  Novel hexavalent GITR agonists stimulate T cells and enhance memory formation. Meinolf Thiemann, Heidelberg, Germany (not eligible for CME credit)

3:20 p.m.  4964  Structure, in vitro biology and in vivo pharmacodynamic characterization of a novel clinical IDO1 inhibitor. John T. Hunt, Princeton, NJ

3:35 p.m.  4965  Sustained tumor regressions and significant improvements in therapeutic index for a lead monomethyl auristatin E nanoparticle-drug conjugate, CRLX701, with the potential for improved anticancer effects. Liang Zhao, Waltham, MA

3:50 p.m.  4966  Phospho-proteome analyses confirm the unique mode of action of MP0274, an apoptosis inducing, biparatopic HER2-targeting DARPin® drug candidate. Ulrike Fiedler, Schlieren-Zurich, Switzerland (not eligible for CME credit)

4:05 p.m.  4967  RAF kinase inhibition synergizes with MEK inhibitors in KRAS mutant tumors. Ivana Yen, Schlieren-Zurich, Switzerland (not eligible for CME credit)

4:20 p.m.  4968  Importance of tumor microenvironment in the preclinical estrogen receptor positive breast cancer—primary tumor and bone metastasis models. Jenni Bernoulli, Turku, Finland (not eligible for CME credit)

4:35 p.m.  4969  Impaired PARP1 DNA repair defines chemosensitivity in IDH1 mutant cell. Yanxin Lu, Bethesda, MD

Room 151, Level 1, Washington Convention Center

Experimental and Molecular Therapeutics
Novel Small Molecular Targets and Approaches

Cochairs: Scott Kopetz, Houston, TX; John J. Wright, Houston, TX

3:00 p.m.  Introduction

3:05 p.m.  4970  Oxidative phosphorylation as a target in triple negative breast cancer therapy. Funda Meric-Bernstam, Houston, TX

3:20 p.m.  4971  IACS-010759, a novel inhibitor of complex I in Phase I clinical development to target OXPHOS dependent tumors. Joseph R. Marszalek, Houston, TX

3:35 p.m.  4972  Novel Ras inhibitor DC070-547 potently and selectively blocks Ras-RBD binding, EGFR binding to Ras signaling complex, EGFR activation of Ras signaling, and growth of Ras-driven lung tumor cells. Bing Zhu, Mobile, AL
3:50 p.m.  4973  Discovery of LY3214996, a selective and novel ERK1/2 inhibitor with potent antitumor activities in cancer models with MAPK pathway alterations. Shripad V. Bhagwat, Indianapolis, IN (not eligible for CME credit)

4:05 p.m.  4974  Pharmacogenomic interactions in glioblastoma cell line models. Ruben Ferrer-Luna, Boston, MA

4:20 p.m.  4975  A small molecule pan Id protein antagonist shows strong antitumor activity. Paulina M. Wojnarowicz, New York, NY

4:35 p.m.  4976  Ricolinostat, a selective HDAC6 inhibitor with immunomodulatory properties, has significant antimelanoma activity in vitro and in vivo. Fengdong Cheng, Washington, DC

Ballroom A-B, Level 3, Washington Convention Center

Immunology

Adoptive Cellular Therapy for Cancer

Cochairs: Michael T. Lotze, Pittsburgh, PA; Christian Hinrichs, Bethesda, MD

3:00 p.m. Introduction

3:05 p.m.  4977  Isolation and characterization of a PRAME-specific TCR with high avidity, potent antitumor efficacy and a favorable preclinical safety profile. Manon Weis, Planegg/Martinsried, Germany

3:20 p.m.  4978  Adoptively transferred CMV-specific T-cells recognizing dominant and sub-dominant pp65 epitopes demonstrate improved in vivo inhibition of tumor xenografts in combination with PD-1 inhibition. Aisha N. Hasan, New York, NY

3:35 p.m.  4979  Development of KITE-585: A fully human BCMA CAR T-cell therapy for the treatment of multiple myeloma. Gregor B. Adams, Santa Monica, CA (not eligible for CME credit)

3:50 p.m.  4980  Engineering adoptive T cell therapy for efficacy in ovarian cancer. Kristin G. Anderson, Seattle, WA

4:05 p.m.  4981  Extracellular spacer and co-stimulatory domains define target sensitivity and persistence of CAR T cells for the treatment of PSCA+ bone metastatic prostate cancer. Kelly Kennewick, Duarte, CA

4:20 p.m.  4982  Regression of metastatic breast cancer after adoptive cell transfer of tumor infiltrating lymphocytes and checkpoint blockade. Nikolaos Zacharakis, Bethesda, MD

4:35 p.m.  4983  T cells expressing chimeric PD1 receptors that contain a Dap10 costimulatory domain are a potential treatment for multiple types of cancer. Amorette E. Barber, Farmville, VA
Exploiting Metabolic Vulnerabilities to Treat Cancer

Chair: Matthew G. Vander Heiden, Cambridge, MA

3:00 p.m. Introduction

3:05 p.m. 4984 BNip3 suppresses hepatocellular carcinoma (HCC) growth by limiting lipogenesis. Kay F. Macleod, Chicago, IL

3:20 p.m. 4985 Understanding the vulnerabilities in cancer cells upon inhibition of glutathione synthesis. Isaac S. Harris, Boston, MA

3:35 p.m. 4986 Pancreatic cancers develop metabolic resistance pathways to glutaminase inhibition. Joseph D. Mancias, Boston, MA

3:50 p.m. 4987 ASS1 downregulation facilitates cancer cell survival in acidic environment. Ayelet Erez, Rehovot, Israel

4:05 p.m. 4988 Genome-wide CRISPR screen and metabolite profiling reveal a new mechanism of methotrexate sensitivity. Naama Kanarek, Cambridge, MA

4:20 p.m. 4989 3D spheroid screen yields SCD1 pathway inhibitors for the treatment of cancer. Sylvia Gruenewald, Berlin, Germany

4:35 p.m. 4990 High-throughput drug combination screening in tumor spheroids identifies context-dependent synthetic lethality. Wojciech Senkowski, Uppsala, Sweden

Transcriptional Regulation in Cancer Cells

Cochairs: Rani E. George, Boston, MA; Paul A. Northcott, Memphis, TN

3:00 p.m. Introduction

3:05 p.m. 4991 Dynamic reprogramming of the chromatin landscape in cancer: Studies in real time. Ville Paakinaho, Bethesda, MD

3:20 p.m. 4992 Miswired super enhancer logic driving childhood sarcoma. Berkley E. Gryder, Bethesda, MD

3:35 p.m. 4993 The role of super-enhancers and genetic boundaries in gene regulation. Michaela Willi, Bethesda, MD

3:50 p.m. 4994 Understanding the MYC and WDR5 interaction at chromatin. Alissa D. Guarnaccia, Nashville, TN
4:05 p.m.  4995  Premature polyadenylation causes oncogenic truncations of the tumor suppressor genes **BRCA1**, **LATS1** and **MAGI3** in breast cancer. Thomas K. Ni, Boston, MA

4:20 p.m.  4996  The m^6^A hallmark of cancer: RNA demethylase ALKBH5 maintains tumorigenicity of glioblastoma stem-like cells by sustaining FOXM1 expression and cell proliferation. Sicong Zhang, Houston, TX

4:35 p.m.  4997  Specialized microRNP and translation mechanisms in quiescent cancer cells. Shobha Vasudevan, Boston, MA

Room 201, Level 2, Washington Convention Center
**Prevention Research**
**Biomarkers and Intervention Studies**

**Cochairs:** Brian M. Rivers, Atlanta, GA; Jong Y. Park, Tampa, FL

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

3:05 p.m.  4998  Breast tumor FOXA1 protein expression and reproductive characteristics among African-American and European-American women. Ting-Yuan David Cheng, Gainesville, FL

3:20 p.m.  4999  Stress, spiritual wellbeing and cancer risk among diverse racial faith-based communities: Elevated levels of stress proteomic biomarkers in breast cancer patients. Padma P. Tadi Uppala, Berrien Springs, MI

3:35 p.m.  5000  A stromal liver gene signature predictive of HCC risk across all liver disease etiologies. Shigeki Nakagawa, Kumamoto City, Japan

3:50 p.m.  5001  Functional biomarker discovery from cancer patient serum with PEP technology. Xing Wang, St. Louis, MO

4:05 p.m.  5002  Premalignant squamous cell lung carcinoma lesions have distinct molecular subtypes associated with histologic progression. Jennifer E. Beane, Boston, MA

4:20 p.m.  5003  Serum parathyroid hormone and risks of colorectal adenoma, adenoma recurrence and colorectal cancer, results from the Prostate, Lung, Colorectal, and Ovarian Cancer Screening Trial. Xiangzhu Zhu, Nashville, TN

4:35 p.m.  5004  Chemopreventive potential of **Lactobacillus kefiri** P-IF, a novel kefir product, on Ehrlich ascites carcinoma cells. Nariman K. Badr El-Din, Mansoura, Egypt
East Salon A-B, Level 1, Washington Convention Center

Tumor Biology

Microenvironmental Cues in Immune Escape and Therapy Resistance

Cochairs: Raghu Kalluri, Houston, TX; Valerie S. Lebleu, Houston, TX

3:00 p.m. Introduction

3:05 p.m.  5005 Inhibition of E-selectin or E-selectin together with CXCR4 resensitizes multiple myeloma to treatment. Barbara Muz, St. Louis, MO

3:20 p.m.  5006 Correlation between PD-L1 expression and tumor clinicopathologic characteristics in early stage breast cancer. Hadeel Assad, Southfield, MI

3:35 p.m.  5007 Role of the interferon-gamma response pathway in immune escape of colorectal carcinoma. Michael Stürzl, Southfield, MI, Germany

3:50 p.m.  5008 The brain microenvironment mediates resistance in luminal breast cancer to PI3K inhibition through HER3 activation. Gino B. Ferraro, Boston, MA

4:05 p.m.  5009 Self-renewal of hypoxic glioma stem-like cells is facilitated by secretion-mediated STAT3 activation. Damian A. Almiron Bonnin, Lebanon, NH

4:20 p.m.  5010 Activation of the notch signaling pathway confers a tumor-suppressive phenotype on melanoma-associated fibroblasts. Zhao-Jun Liu, Miami, FL

4:35 p.m.  5011 Tumor associated macrophages promote malignant phenotypes of disseminated human gastric cancer cells in intraperitoneal cancer immune microenvironment. Shuichi Sakamoto, Okayama, Japan

Room 206, Level 2, Washington Convention Center

Tumor Biology

Models for Treatment Resistance and Drug Discovery

Cochairs: Alejandro Gutierrez, Brookline, MA; Yoon-Jae Cho, Portland, OR

3:00 p.m. Introduction

3:05 p.m.  5012 Mouse-human co-clinical trials demonstrate superior efficacy with combinational approach of BKM120 and erbitux over BKM120 monotherapy in patients with recurrent and/or metastatic squamous cell carcinoma of head and neck (R/M-SCCHN). Hye Ryun Kim, Seoul, Republic of Korea

3:20 p.m.  5013 A 3D culture system identifies a new mode of cetuximab resistance and disease-relevant genes in colorectal cancer. Bhuminder Singh, Nashville, TN
3:35 p.m.  5014  Drug discovery for NF1-associated malignant peripheral nerve sheath tumors using the zebrafish model. Dong Hyuk Ki, Boston, MA

3:50 p.m.  5015  Innovative and predictive models against breast cancer. Séverine Tabone-Eglinger, Lyon, France

4:05 p.m.  5016  High-throughput patient-derived 3-dimensional organoid cultures as personalized models to assess drug response and post-treatment residual disease. Eugen Dhimolea, Boston, MA

4:20 p.m.  5017  Visualization of the mechanisms of metastasis within a biomimetic engineered tumor microenvironment encompassing a perfusable cylindrical 3D microvessel. Andrew D. Wong, Baltimore, MD

4:35 p.m.  5018  Dissecting antigen-specific T-cell response in a novel mouse model of colon cancer. Mary C. Beytagh, Cambridge, MA

Room 150, Level 1, Washington Convention Center

Tumor Biology

Tumor Stem Cell Biology

Cochairs: Sendurai A. Mani, Houston, TX; Jeremy N. Rich, Cleveland, OH

3:00 p.m.  Introduction

3:05 p.m.  5019  HMGA1 amplifies Wnt signaling and expands the intestinal stem cell compartment to drive premalignant polyposis in transgenic mice. Lingling Xian, Baltimore, MD

3:20 p.m.  5020  A genome-scale ORF screen reveals an alternative splicing program that regulates mesenchymal and stem-like cell states in breast cancer. Ji Li, Boston, MA

3:35 p.m.  5021  Semaphorin signal via MICAL3 induces symmetrical cell division of cancer stem-like cells to confer aggressiveness in breast cancer. Noriko Gotoh, Kanazawa, Japan

3:50 p.m.  5022  Keratin15 (Krt15)+ are radio resistant and tumor-initiating cells in the mouse small intestine. Véronique Giroux, Philadelphia, PA

4:05 p.m.  5023  Disruption of Monocarboxylate transporter-4 Basigin interaction as an effective strategy to inhibit hypoxic response, tumor growth and vascularization, and stem cell phenotype in human glioblastoma in vitro and in vivo. Raffaella Spina, Cleveland, OH

4:20 p.m.  5024  Unmasking heterogeneity within the adult mammary stem cell compartment. Jane E. Visvader, Parkville, Australia

4:35 p.m.  5025  EZH2 reprogramming confers intrinsic stem cell properties and developmental plasticity driving neuroendocrine prostate cancer. Alastair Davies, Vancouver, BC, Canada
TUESDAY, APRIL 4

● CAREER DISCUSSIONS • 3:30 p.m.–4:15 p.m.

AACRcentral Amphitheater (Booth 1125), Lower Level, Washington Convention Center
The Importance of Mentorship, Organized by the Associate Member Council (AMC)
(not eligible for CME credit)
Speakers: Ryan B. Corcoran, Boston, MA
Lindsay M. Morton, Bethesda, MD

● AWARDS AND LECTURES • 3:45 p.m.–4:30 p.m.

Ballroom C, Level 3, Washington Convention Center
Twenty-Sixth Annual AACR-American Cancer Society Award for Research Excellence in Cancer Epidemiology and Prevention
Decline in Prostate Cancer Rates: Bad News?
Meir J. Stampfer, Boston, MA

● MEET AND GREET • 4:30 p.m.–5:00 p.m.

AACRcentral Amphitheater (Booth 1125), Lower Level, Washington Convention Center
Meet the AACR Foundation: Runners for Research
(not eligible for CME credit)
Moderator: Danielle Triplett, Philadelphia, PA

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

Room 207, Level 2, Washington Convention Center
Twenty-Second Annual AACR Joseph H. Burchenal Memorial Award for Outstanding Achievement in Clinical Cancer Research
Cancer Genetics Come of Age
Judy E. Garber, Boston, MA
AWARDS AND LECTURES • 5:00 p.m.–5:45 p.m.

Ballroom A-B, Level 3, Washington Convention Center
Fifth Annual AACR-CRI Lloyd J. Old Award in Cancer Immunology
Vaccines for Cancer Prevention: The Risk Worth Taking
Olivera J. Finn, Pittsburgh, PA

FORUMS • 5:00 p.m.–6:30 p.m.

East Salon A-B, Level 1, Washington Convention Center
Early Detection of Lethal Cancers: Separating the Wheat from the Chaff
Chair: Barnett S. Kramer, Rockville, MD
Panel: Avrum E. Spira, Boston, MA
Laura J. Esserman, San Francisco, CA
Room 146, Level 1, Washington Convention Center

EMT and Metastasis: Is It Necessary?
Chair: Piyush B. Gupta, Cambridge, MA
Panel: Vivek Mittal, New York, NY
Thomas Brabletz, Erlangen, Germany
Room 152, Level 1, Washington Convention Center
Genomics and the Environment: Moving toward Precision Medicine in the Context of Health Disparities
Chair: Rick A. Kittles, Tucson, AZ
Panel: Laura Fejerman, Berkeley, CA
Carol R. Horowitz, New York, NY
Room 202, Level 2, Washington Convention Center
How Much of Cancer Is Bad Luck?
Chair: John D. Groopman, Baltimore, MD
Panel: Cristian Tomasetti, Baltimore, MD
Walter C. Willett, Boston, MA
Optimizing the Sequence of Anticancer Therapies

Chair: Christine M. Lovly, Nashville, TN
Panel: Roger S. Lo, Los Angeles, CA
Alice T. Shaw, Boston, MA

Precision Medicine: Will It Be of Benefit in Pediatric Cancer Patients?

Chair: John M. Maris, Philadelphia, PA
Panel: Sabine Mueller, San Francisco, CA
Charles G. Mullighan, Memphis, TN

NCI/NIH-SPONSORED SESSION • 5:00 p.m.–6:30 p.m.

NCI’s Provocative Questions Initiative: Objectives, Outcomes, Lessons Learned
(not eligible for CME credit)

Chair: Philip J. Daschner, Rockville, MD
Speakers: Phillip J. Daschner, Rockville, MD
Tiffany A. Wallace, Rockville, MD
Kelly Filipski, Bethesda, MD
Wendy Cozen, Los Angeles, CA
David L. Waning, Hershey, PA
SPECIAL SESSION • 5:00 p.m.–6:30 p.m.

Room 147, Level 1, Washington Convention Center
Advancing Cancer Therapy Using Data from the NIH LINCS Program

Cochairs: Peter K. Sorger, Boston, MA; Laura M. Heiser, Portland, OR

5:00 p.m. Introduction to the NIH LINCS Program. Peter K. Sorger, Boston, MA
5:15 p.m. Navigating the global landscape of cellular fate with LINCS data. Avi Ma’ayan, New York, NY
5:30 p.m. Mining LINCS drug-response databases to identify novel activities of investigational breast cancer therapeutics. Caitlin Mills, Boston, MA
5:45 p.m. The L1000 Platform and Next Generation Connectivity Map. Todd R. Golub, Cambridge, MA
6:00 p.m. Systematic study of the influence of the microenvironment on cancer cell phenotypes: An overview of the MEP-LINCS center. Laura M. Heiser, Portland, OR
6:15 p.m. Proteomic connectivity maps of chromatin and signaling for functional drug discovery. Jake Jaffe, Cambridge, MA

TOWN MEETING • 6:00 p.m.–8:00 p.m.

Marquis Ballroom Salons 6-10, Meeting Level 2, Marriott Marquis DC
Tumor Microenvironment Working Group (TME) Town Hall Meeting and Reception (not eligible for CME credit)

Chair: Valerie M. Weaver

See online itinerary for details.
WEDNESDAY, APRIL 5

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

Room 152, Level 1, Washington Convention Center
Analysis of Breast Cancer Development, Therapy Response, and Resistance in Mouse Models
Jos Jonkers, Amsterdam, Netherlands

Room 201, Level 2, Washington Convention Center
EGFR and HER2: Network Signaling and Next-Generation Drugs
Yosef Yarden, Rehovot, Israel

Room 151, Level 1, Washington Convention Center
Elucidating How Mutations in Calreticulin Cause Myeloproliferative Neoplasms
Ann Mullally, Boston, MA

Room 206, Level 2, Washington Convention Center
The Emerging Role of IncRNAs in Cancer Biology
Jean-Christophe W. Marine, Ghent, Belgium

Room 207, Level 2, Washington Convention Center
Genome-Inspired Approaches to Oncology Drug Discovery
Todd R. Golub, Cambridge, MA

Room 143, Level 1, Washington Convention Center
Improve Your Research with a New-Technologies Strategy
James V. Lacey, Duarte, CA

Room 144, Level 1, Washington Convention Center
Intermittent Dosing of Targeted Therapy to Prevent the Development of Resistance
Darrin D. Stuart, Marblehead, MA

Room 204, Level 2, Washington Convention Center
Mitochondria and Cancer
Dario C. Altieri, Philadelphia, PA
Room 145, Level 1, Washington Convention Center
**Optimizing Clinical Trials for Therapeutic Development**
Steven Piantadosi, Los Angeles, CA

Room 150, Level 1, Washington Convention Center
**Patterns of Somatic Mutation in Cancer**
Michael S. Lawrence, Cambridge, MA

East Salon C, Level 1, Washington Convention Center
**Progression of Premalignant Lesions**
Akinyemi Ojesina, Birmingham, AL

Room 202, Level 2, Washington Convention Center
**Using Mismatch Repair Deficiency as a Predictive Biomarker of Response to Checkpoint Blockade**
Dung T. Le, Baltimore, MD

**NCI/NIH-SPONSORED SESSION • 7:15 a.m.–8:00 a.m.**

Room 140, Level 1, Washington Convention Center
**The NCI PREVENT Cancer Preclinical Drug Development Program**
*(not eligible for CME credit)*

**Speaker:** Robert H. Shoemaker, Bethesda, MD
PLENARY SESSION • 8:00 a.m.–10:00 a.m.

Hall D-E, Level 2, Washington Convention Center
Convergence, Computation, and Cancer
Chair: Chi Van Dang, Philadelphia, PA

8:00 a.m. Introduction. Chi Van Dang, Philadelphia, PA

8:01 a.m. G-quadruplexes and DNA dynamics. Shankar Balasubramanian, Cambridge, United Kingdom [PL04-01]*

8:30 a.m. Activity-based biomarkers for noninvasive cancer detection. Sangeeta N. Bhatia, Cambridge, MA

9:00 a.m. Novel approaches for personalizing treatments: From nutrition to cancer. Eran Segal, Rehovot Israel, Israel [PL04-04 ]*

9:30 a.m. Mathematical modeling of cancer evolution. Franziska Michor, Boston, MA

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

Exhibit Hall, Lower Level, Washington Convention Center
(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/AACR2017), and the print Poster Sessions and Exhibits Guide. A limited number of copies of the print guide are available in the Exhibit Hall.

Experimental and Molecular Therapeutics
Section 1 Anticancer Precision Clinical Pharmacology
Section 2 Epigenetic Agents
Section 3 Gene- and Vector-Based Therapy
Section 4 Novel Chemotherapies
Section 5 Novel Drug Delivery Technology
Section 6 Oncogenes and Tumor Suppressors as Therapeutic Targets
Section 7 Preclinical Radiotherapeutics
Section 8 Transport and Metabolism
Section 34 Late-Breaking Research: Experimental and Molecular Therapeutics 2

*An extended abstract for this presentation is available in the Invited Abstracts section of the Proceedings (the abstract number is listed in brackets above).
**Cancer Chemistry**
Section 9  Chemical Biology and Structure Biology Approach to Study Cancers

**Prevention Research**
Section 11  Chemoprevention and Cancer

**Epidemiology**
Section 12  Health Disparities, Screening, and Risk Prediction
Section 13  Nutrition and Anthropometric Features

**Molecular and Cellular Biology/Genetics**
Section 14  Cell Growth Signaling Pathways
Section 15  Development of High Throughput Analytic Methods
Section 16  Epigenetics
Section 17  Genomic Analyses of Circulating Tumor Material and RNA
Section 18  Metabolic Regulation and Cancer Therapy
Section 19  MicroRNA Diagnostics and Therapeutics in Cancer
Section 20  Oxidative Stress, Autophagy, and Senescence
Section 21  Regulation of Oncogenic Transcription
Section 22  Tumor Suppressors
Section 36  Late-Breaking Research: Molecular and Cellular Biology

**Bioinformatics and Systems Biology**
Section 23  Systems Biology Approaches to Cancer Diagnostics and Disease Management

**Immunology**
Section 24  Enzymes and Hormones and Metabolism in Tumor Immunity
Section 25  Immune Checkpoints and Immunosurveillance

**Clinical Research**
Section 27  Clinical and Translational Endocrine Oncology
Section 28  Innate Immunity to Generate Adaptive Immunity
Section 29  Liquid Biopsies: cfDNA, MicroRNA, and Protein
Section 30  Prognostic Biomarkers

**PROGRAM GUIDE**
Tumor Biology
Section 37  Carcinogenesis and Human Tumors
Section 38  Cell Culture and Animal Models of Cancer 6
Section 39  Effects of Tumor-Microenvironment Crosstalk on Metastasis
Section 40  Pediatric Cancer 4: Immunology, Signaling, and the Tumor Microenvironment
Section 41  Radioprotectors, Radiosensitizers, and Radiation Resistance
Section 42  Tumor Cell Adhesion and Drug Resistance
Section 43  Tumor Microenvironment 8
Section 44  Tumor Microenvironment 9

● CAREER DISCUSSIONS • 10:15 a.m.–11:00 a.m.

AACRcentral Amphitheater (Booth 1125), Lower Level, Washington Convention Center
Searching for the Right Postdoctoral Position, Organized by the Associate Member Council (AMC)
(not eligible for CME credit)

Speakers: Shih-Wen “Wenny” Lin, South San Francisco, CA
Jessica N. Clague-DeHart, Duarte, CA

● NCI/NIH-SPONSORED SESSION • 10:15 a.m.–11:45 a.m.

Room 140, Level 1, Washington Convention Center
NCI Funding Opportunities to Increase Diversity in Cancer Research
(not eligible for CME credit)

Moderator: Peter O. Ogunbiyi, Bethesda, MD

Speakers: Alison Lin, Bethesda, MD
Nicole E. McNeil, Bethesda, MD
John O. Ojeifo, Bethesda, MD
Davyd Chung, Bethesda, MD
Behrous Davani, Bethesda, MD
MAJOR SYMPOSIA • 10:15 a.m.–12:00 p.m.

Room 207, Level 2, Washington Convention Center
**Bridging Big Data and Clinical Practice**

Chair: Li Ding, St. Louis, MO

10:15 a.m.  Introduction

10:20 a.m.  Beyond the exome: Noncoding alterations in cancer genomes. Matthew L. Meyerson, Boston, MA

10:50 a.m.  Identification of novel modulators of response to immune checkpoint blockade in lung cancer patients through the marrying of clinical and genomic data. Phil Stephens, Cambridge, MA [SY40-02]* (not eligible for CME credit)

11:20 a.m.  The application of integrative sequencing for precision oncology. Arul M. Chinnaiyan, Ann Arbor, MI

Ballroom A-B, Level 3, Washington Convention Center
**CAR T Cell Cancer Immunotherapy: Refinements for B Cell Malignancies and Emerging Opportunities in Solid Tumors**

Chair: Michael C. Jensen, Seattle, WA

10:15 a.m.  Introduction


10:50 a.m.  Defining the limitations of CD19CAR immunotherapy in pediatric ALL and development of effective countermeasures. Terry J. Fry, Bethesda, MD

11:20 a.m.  Progress and challenges in CAR T cell therapy for brain tumors. Christine E. Brown, Duarte, 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).
Hall D-E, Level 2, Washington Convention Center

**CRISPR and Functional Genomics**

**Chair:** Feng Zhang, Cambridge, MA

10:15 a.m.  **Introduction**

10:20 a.m.  **Mechanisms of oncogenic signaling and therapeutic resistance in lymphoma revealed by CRISPR-Cas9 screens.** Louis M. Staudt, Bethesda, MD

10:50 a.m.  **Linking cancer vulnerabilities to therapeutic development.** William R. Sellers, Cambridge, MA

11:20 a.m.  **High-throughput interrogation of cancer drug-resistance phenotypes.** Feng Zhang, Cambridge, MA

Ballroom C, Level 3, Washington Convention Center

**Myeloid Cell Reprogramming in the Tumor Microenvironment**

**Chair:** Michele De Palma, Lausanne, Switzerland

10:15 a.m.  **Introduction**

10:20 a.m.  **Dissecting tumor myeloid cell heterogeneity.** Miriam Merad, New York, NY

10:50 a.m.  **Reprogramming tumor macrophages for antitumor immunity.** Michele De Palma, Lausanne, Switzerland

11:20 a.m.  **Tissue-specificity of myeloid-mediated T-cell suppression in solid tumors.** Lisa M. Coussens, Portland, OR

East Salon A-B, Level 1, Washington Convention Center

**Proteomics Landscape of Cancer**

**Chair:** Matthias Mann, Martinsried, Germany

10:15 a.m.  **Introduction**

10:20 a.m.  **Translational mass spectrometry: Making the genome actionable for cancer patients.** Amanda G. Paulovich, Seattle, WA

10:50 a.m.  **A human pathology atlas: Expression profiles related to clinical outcome of cancers.** Mathias Uhlen, Solna, Sweden

11:20 a.m.  **Mass spectrometry-based proteomics to study cancer development and progression.** Matthias Mann, Martinsried, Germany
Room 146, Level 1, Washington Convention Center

**Role of Interferon Pathway Signaling in Cancer Immunotherapy**

*Chair:* Antoni Ribas, Los Angeles, CA

- **10:15 a.m.** Introduction
- **10:20 a.m.** Description of the IFN receptor pathway signaling and its relevance to cancer. Leonidas C. Platanias, Chicago, IL
- **10:50 a.m.** The independent roles of Type I IFN and IFN-gamma in natural and therapeutically induced immune responses to cancer. Robert D. Schreiber, St. Louis, MO
- **11:20 a.m.** Resistance to checkpoint blockade through IFN-g pathway alterations. Antoni Ribas, Los Angeles, CA

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**RECENT ADVANCES IN DIAGNOSTICS AND THERAPEUTICS RESEARCH • 10:15 a.m.–12:00 p.m.**

Room 202, Level 2, Washington Convention Center

**Novel Diagnostics and Patient Selection Approaches for Therapeutic Trials**

*Chair:* Scott Kopetz, Houston, TX

- **10:15 a.m.** Gene expression studies in breast cancer trials: Moving past ER and HER2. Lisa A. Carey, Chapel Hill, NC
- **10:45 a.m.** Realities and opportunities of DNA-based molecular profiling studies. Scott Kopetz, Houston, TX
- **11:15 a.m.** Tumor models as novel diagnostics: Finding drugs that work. James H. Doroshow, Bethesda, MD

Room 152, Level 1, Washington Convention Center

**Novel Targets in Hematologic Malignancies**

*Chair:* Mark Dawson, Victoria, Australia

- **10:15 a.m.** Targeting BCL2 and MCL1 in blood cancers: Practice, pitfalls, and possibilities. Andrew Roberts, Parkville Victoria, Australia
- **10:45 a.m.** Mechanisms of response and resistance to epigenetic therapies in myeloid malignancies. Mark Dawson, Victoria, Australia
- **11:15 a.m.** Novel therapeutic opportunities for germinal center B-cell lymphomas. Laura Pasqualucci, New York, NY
RECENT ADVANCES IN ORGAN SITE RESEARCH
10:15 a.m.–12:00 p.m.

Room 151, Level 1, Washington Convention Center
Bladder Cancer
Chair: Ellen C. Zwarthoff, Rotterdam, Netherlands

10:15 a.m.  Molecular subgrouping of bladder cancer, tumor clonality, and ctDNA follow-up in the clinic. Torben F. Ørntoft, Aarhus N, Denmark
10:40 a.m.  Genomic dissection of the clonal evolution dynamics of chemotherapy-resistant urothelial carcinoma. Bishoy M. Faltas, New York, NY [NG06]*
11:00 a.m.  Bladder cancer heterogeneity: Drivers or progenitor cells? Xue-Ru Wu, New York, NY
11:25 a.m.  Diagnostic and prognostic markers for patient management. Ellen C. Zwarthoff, Rotterdam, Netherlands

Room 145, Level 1, Washington Convention Center
Glioblastoma
Chair: Michael Prados, San Francisco, CA

10:15 a.m.  Glioblastoma: Where we are, where we have been, and what is next. Michael Prados, San Francisco, CA
10:30 a.m.  Immunotherapy for malignant gliomas: Current approaches, challenges, and opportunities. Duane A. Mitchell, Gainesville, FL
10:55 p.m.  Missing link in CNS anticancer drug development: Early markers of (sub)clinical effect. Timothy Cloughesy, Los Angeles, CA
11:20 a.m.  GBM AGILE: A collaborative next-generation clinical trial and learning system for GBM. Anna D. Barker, Scottsdale, AZ
RECENT ADVANCES IN PREVENTION RESEARCH
10:15 a.m.–12:00 p.m.

Room 150, Level 1, Washington Convention Center
Lung Cancer Screening: Biomarkers, Lung Cancer Modeling, and Smoking Cessation

Chair: Stephanie R. Land, Rockville, MD

10:15 a.m.  Smoking cessation in the context of lung cancer screening: State of the research. Stephanie R. Land, Rockville, MD

10:45 a.m.  Modeling smoking trends and lung cancer screening: Changes in eligibility and the potential impact of joint screening/cessation programs on smoking and lung cancer. Rafael Meza, Ann Arbor, MI

11:15 a.m.  IL-17 pathway is up-regulated in squamous cell lung cancer arising in patients with COPD. Jill M. Siegfried, Minneapolis, MN

Room 147, Level 1, Washington Convention Center
Obesity, Inflammation, and Cancer Prevention

Chair: Dipali Sharma, Baltimore, MD

10:15 a.m.  Molecular connections between obesity and cancer. Dipali Sharma, Baltimore, MD

10:45 a.m.  Inflammation and cancer: The role of exercise. Melinda L. Irwin, New Haven, CT

11:15 a.m.  Inflammation and cancer: The role of caloric restriction and weight loss. Wendy Demark-Wahnefried, Birmingham, AL
**WEDNESDAY, APRIL 5**

**MINISYMPOSIUM • 10:30 a.m.–12:00 p.m.**

Room 143, Level 1, Washington Convention Center

**Recent Trends in Regulatory Science**

**Cochairs:** Julia Beaver, Silver Spring, MD; Martha Donoghue, Silver Spring, MD

10:30 p.m. **5947**  The *NCI Best Practices for Biospecimen Resources: 2016 revised recommendations*. Abhi Rao, Bethesda, MD

11:00 p.m. **5946**  Universal consent for biospecimens: A novel electronic/video consent. Arash Naeim, Los Angeles, CA

11:30 p.m. **LB-338**  A critical evaluation of genomic data sharing: Barriers to accessing pediatric cancer genomic datasets: A Treehouse Childhood Cancer Initiative experience. Isabel Bjork, Santa Cruz, CA

**SPECIAL SESSION • 11:15 a.m.-12:00 p.m.**

AACR Amphitheater (Booth 1125), Lower Level, Washington Convention Center

**Keep Them Funded—Learn More about the Campaign for Early-Career Researchers**

(not eligible for CME credit)

**PLENARY SESSION • 12:15 p.m.–1:30 p.m.**

Hall D-E, Level 2, Washington Convention Center

**AACR Annual Meeting 2017 Highlights: Vision for the Future**

12:15 p.m. Introduction.

12:20 p.m. Basic science and translational implications. Kornelia Polyak, Boston, MA

12:40 p.m. Therapeutics. Elizabeth M. Jaffee, Baltimore, MD

1:00 p.m. Early detection and prevention research. Nancy E. Davidson, Seattle, WA

1:20 p.m. Wrap-up and vision for the future. Michael A. Caligiuri, Columbus, OH
TRAVEL AWARDS

SCHOLAR-IN-TRAINING AWARDS

The AACR is proud to offer Scholar-in-Training Awards to enable the participation of meritorious early-career scientists at the Annual Meeting 2017. Since its inception in 1986, the AACR Annual Meeting Scholar-in-Training Award program has provided more than 4,400 grants to young investigators and has received support from more than 50 cancer research foundations, corporations, individuals, and other organizations dedicated to the fight against cancer. This year, 14 organizations or individuals generously provided the funding to support this program. To commemorate the AACR’s 110th Anniversary, this funding recognizes 110 Scholar-in-Training Awardees.

The names and affiliations of the 2017 Scholar-in-Training Award recipients, along with the abstract numbers and titles of their presentations, are listed below.

2017 AACR Scholar-in-Training Awards

AACR has graciously donated funds to support early-career investigators who will be presenting meritorious proffered papers at the AACR Annual Meeting 2017.

Mark Hafner, PhD, Harvard Medical School, Boston, MA. Abstract 972. Improving pre-clinical cancer pharmacogenomics with novel drug sensitivity metrics based on growth rate inhibition.

Matthew L. Hedberg, MD, PhD, University of Pittsburgh School of Medicine, Pittsburgh, PA. Abstract 1779. Chronic NSAID use increases survival in PI3KCA-altered head and neck squamous cell carcinoma.

Patricia M. Schnepp, BS, University of Notre Dame, Notre Dame, IN. Abstract 4934. Brain metastatic microenvironment reshapes cancer cell metabolism through epigenetic up-regulation of glutamate decarboxylase 1.

Raffaella Spina, PhD, Case Western Reserve University, Cleveland, OH. Abstract 5023. Disruption of Monocarboxylate transporter-4 Basigin interaction as an effective strategy to inhibit hypoxic response, tumor growth and vascularization, and stem cell phenotype in human glioblastoma in vitro and in vivo.

Kevin C. Vavra, PhD, Cedars-Sinai Medical Center, Los Angeles, CA. Abstract 5502. Functional evaluation of superenhancers as mediators of epithelial ovarian cancer risk.

2017 AACR-AbbVie Scholar-in-Training Awards

AbbVie has graciously donated funds to support early-career investigators who will be presenting meritorious proffered papers at the AACR Annual Meeting 2017.

Sarah E. Croessmann, PhD, Vanderbilt University, Nashville, TN. Abstract 1772. PIK3CA C2 domain deletions hyperactivate PI3K, generate oncogene dependence and are exquisitely sensitive to PI3Kα inhibitors.

Michael J. Crowley, MS, Weill Cornell Medical College, New York, NY. Abstract 4498. Targeting IRE1α-XBP1 signaling in lung cancer.

Ruben Ferrer-Luna, PhD, Dana-Farber Cancer Institute, Boston, MA. Abstract 4974. Pharmacogenomic interactions in glioblastoma cell line models.
Véronique Giroux, PhD, University of Pennsylvania, Philadelphia, PA. Abstract 5022. Keratin15 (Krt15) + are radio resistant and tumor-initiating cells in the mouse small intestine.

Alissa Guarnaccia, BS, Vanderbilt University, Nashville, TN. Abstract 4994. Understanding the MYC and WDR5 interaction at chromatin.

Jason A. Hanna, PhD, St. Jude Children’s Research Hospital, Memphis, TN. Abstract 461. Dichotomous roles of Dicer1 in rhabdomyosarcoma and angiosarcoma.

Isaac Spencer Harris, PhD, Harvard Medical School, Boston, MA. Abstract 4985. Understanding the vulnerabilities in cancer cells upon inhibition of glutathione synthesis.

Imran Khan, PhD, National Institute of Health (NIH), Bethesda, MD. Abstract 1047. Role of endocytosis in NM23 mediated motility suppression.

Geffen Kleinstern, PhD, Mayo Clinic, Rochester, MN. Abstract 4267. Association of polygenic risk scores and family history with the risk of chronic lymphocytic leukemia (CLL).

Hawley C. Pruitt, BS, University of Alabama at Birmingham, Birmingham, AL. Abstract 1046. Conditional knockout of N-Myc and STAT Interactor disrupts normal mammary development and enhances metastatic ability of mammary tumors.

Xiang Shu, PhD, Vanderbilt-Ingram Cancer Center, Vanderbilt University School of Medicine, Nashville, TN. Abstract 1309. Association between insulin resistance and breast cancer risk: A Mendelian randomization analysis of data from 228,000 women of European descent.

Ronald F. Siebenaler, BS, University of Michigan Medical School, Ann Arbor, MI. Abstract 1362. Argonaute 2 controls RAS activation in mouse embryonic fibroblasts.

Wenting K. Tsai, BA, University of California Los Angeles, Los Angeles, CA. Abstract 1856. Dual-modality immunoPET/fluorescence imaging of prostate cancer utilizing $^{89}$Zr- or $^{124}$I-Cy5.5-anti-PSCA cysteine minibody.


Juo-Chin Yao, BS, Washington University in St. Louis, St. Louis, MO. Abstract 3042. MIR142 loss-of-function mutations promote leukemogenesis through derepression of ASHIL resulting in increased HOX gene expression.

2017 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 proffered papers in brain cancer research for both primary and secondary (metastatic) brain tumors at the AACR Annual Meeting 2017.

Sebastian Brabetz, MSc, German Cancer Research Center (DKFZ) and German Cancer Consortium (DKTK), Heidelberg, Germany. Abstract 1935. Molecular characterization of orthotopic patient-derived xenograft models of pediatric brain tumors.
Ye Chen, PhD, National University of Singapore, Singapore, Singapore. Abstract 1524. BCL6 modulates the TP53 and STAT pathways in glioma.

Jon D. Larson, PhD, St. Jude Children’s Research Hospital, Memphis, TN. Abstract 3006. Oncogenic activity of H3.3 K27M in a spontaneous DIPG mouse model.

Joo Ho Lee, MD, MS, Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea. Abstract 2455. Human glioblastoma arises from the distant subventricular zone normal appearing but harboring tumor-initiating mutations.

Nalin Leelatian, MD, Vanderbilt University, Nashville, TN. Abstract 364. Mass cytometry of human glioblastoma characterizes more than 99 percent of cells and reveals intratumoral cell subsets defined by contrasting signaling network profiles.

2017 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 outstanding proffered papers at the AACR Annual Meeting 2017.

Kristopher R. Bosse, MD, Children’s Hospital of Philadelphia, Philadelphia, PA. Abstract 685. GPC2 is an oncogene and immunotherapeutic target in high-risk neuroblastoma.

Miriam S. Butler, PhD, Vancouver Prostate Centre, Vancouver, BC, Canada. Abstract 130. Discovery and characterization of small molecules targeting the DNA-binding ETS domain of ERG in prostate cancer.

Hani Choudhry, PhD, King Abdulaziz University, Jeddah, Saudi Arabia. Abstract 4512. The landscape of hypoxia-driven alternative splicing in breast cancer.

Lisa Dwane, BSc, Royal College of Surgeons Ireland, Dublin, Ireland. Abstract 3040. Functional genomic screening identifies USP11 as a novel regulator of ERα transcription in breast cancer.

Helen L. Evans, PhD, David H. Koch Institute for Integrative Cancer Research at MIT, Cambridge, MA. Abstract 5221. Target engagement approaches to validate small-molecule binders of the pioneering transcription factor FOXA1.

Mohammad Fallahi-Sichani, PhD, Harvard Medical School, Boston, MA. Abstract 5561. Single-cell analysis reveals an adaptive, transiently heritable, slowly-dividing, drug-resistant state inhibitable by drug combinations.


Anton G. Henssen, MD, PhD, Memorial Sloan Kettering Cancer Center, New York, NY. Abstract 4888. Human PGBD5 DNA transposase promotes site-specific oncogenic mutations in rhabdoid tumors.

Wan-Ying Hsieh, MS, Memorial Sloan Kettering Cancer Center, New York, NY. Abstract 1032. Identification of Ran binding protein 6 as a novel negative regulator of EGFR and candidate tumor suppressor in glioblastoma.
William Jongwook Kim, PhD, Dana-Farber Cancer Institute, Boston, MA. **Abstract 3035.** Decoding oncogenic transcriptional signatures to generate maps of divergent cellular states.

Ok-Seon Kwon, MS, Sogang University, Seoul, Republic of Korea. **Abstract 4761.** BCL2 induced by LAMTOR3-MAPK is a druggable target of chemoradioresistance in mesenchymal lung cancer.

Joo Sang Lee, PhD, University of Maryland, College Park, MD. **Abstract 543.** Harnessing synthetic lethality to predict clinical outcomes of cancer treatment.

Na Li, PhD, Medical College of Wisconsin, Milwaukee, WI. **Abstract 4685.** Immune checkpoint protein VISTA is a critical regulator of the IL-23/IL-17 inflammatory axis.

David Liu, MD, Dana Farber Cancer Institute, Boston, MA. **Abstract 2918.** Analysis of matched pre and post cisplatin-treated muscle-invasive bladder cancer reveals a candidate cisplatin mutational signature.

Brian C. Miller, MD, PhD, Dana Farber Cancer Institute, Boston, MA. **Abstract 3027.** Dissecting mechanisms of anti-PD-1 therapy with massively parallel single-cell RNA-sequencing.

Thomas K. Ni, PhD, Tufts University, Boston, MA. **Abstract 4995.** Premature polyadenylation causes oncogenic truncations of the tumor suppressor genes BRCA1, LATS1 and MAGI3 in breast cancer.

Yashar Niknafs, BS, University of Michigan, Ann Arbor, MI. **Abstract 3038.** Bridging the gap between NGS data and its usability: cancer gene discovery through massive-scale transcriptomic analyses and development of a powerful web-tool for dissemination of these findings.

Shanmugam Panneer Selvam, PhD, Medical University of South Carolina, Charleston, SC. **Abstract 5474.** Sphingosine kinase 2/sphingosine 1-phosphate signaling regulates p16 mediated accelerated aging in normal somatic tissues and tcf21 mediated tumor suppression in lung cancer.

Jihyun Park, PhD, The University of Texas MD Anderson Cancer Center, Houston, TX. **Abstract 897.** PEA-15 regulates epithelial-mesenchymal transition and invasive behavior through its phosphorylation in triple-negative breast cancer.

Maoxiang Qian, PhD, St. Jude Children’s Research Hospital, Memphis, TN. **Abstract 3005.** Whole-genome sequencing identified novel non-coding mutations causal of oncogene activation in T-cell acute lymphoblastic leukemia.

Jesse J. Salk, MD, PhD, University of Washington, Seattle, WA. **Abstract 3041.** Duplex Sequencing detects cancer-associated mutations arising during normal aging: Clonal evolution over a century of human lifetime.

Sambad Sharma, PhD, Wake Forest University School of Medicine, Winston-Salem, NC. **Abstract 5207.** Breast cancer-specific amplitude modulated radiofrequency electromagnetic fields (AM RF EMF) inhibits brain metastasis of breast cancer.

Paul A. Stewart, PhD, Moffitt Cancer Center, Tampa, FL. **Abstract 205.** Underlying mechanisms of genome-proteome discordance in squamous cell lung cancer.

Veronica Veschi, MD, PhD, National Institutes of Health, Bethesda, MD. **Abstract 3867.** Epigenetic siRNA and chemical screens identify SETD8 inhibition as a therapeutic strategy to reactivate p53 in high-risk neuroblastoma.
Wenwen Xu, MD, PhD, Medical College of Wisconsin, Milwaukee, WI. **Abstract 2996.** Immune checkpoint protein VISTA suppresses Toll-like receptor signaling and the production of inflammatory cytokines.

**2017 AACR-Bristol-Myers Squibb Scholar-in-Training Awards**

Bristol-Myers Squibb has graciously donated funds to support early-career investigators who will be presenting meritorious proffered papers at the AACR Annual Meeting 2017.

**William S. Chen, BS**, Yale School of Medicine, New Haven, CT. **Abstract 977.** Phenotypic analysis of single-cell breast cancer inhibition data reveals insights into EMT.

**Jaqueline C. Avila, BS**, The University of Texas Medical Branch, Galveston, TX. **Abstract 5280.** Disparity-related survival among adolescent and young adult patients with sarcomas in Texas.

**Jeremy Bruce Foote, PhD, DVM**, Johns Hopkins University School of Medicine, Baltimore, MD. **Abstract 2993.** STING signaling in breast tumor microenvironment modulates immune checkpoint blockade efficacy in the neu-N mouse model of breast cancer.

**Roelof Koster, PhD**, National Cancer Institute, National Institutes of Health, Bethesda, MD. **Abstract 4871.** Whole-exome sequencing identifies a high frequency of germline deleterious variants in cancer predisposition genes in individuals with osteosarcoma.

**Ji Li, PhD**, Dana-Farber Cancer Institute, Harvard Medical School, Broad Institute of MIT and Harvard, Boston, MA. **Abstract 5020.** A genome-scale ORF screen reveals an alternative splicing program that regulates mesenchymal and stem-like cell states in breast cancer.

**Evan C. Markegard, BS**, University of California, San Francisco, San Francisco, CA. **Abstract 1370.** EGFR-mediated Spred1 phosphorylation inhibits NF1 to sustain constitutive Ras/MAPK signaling.

**Joshua L. Pan, BS**, Dana-Farber Cancer Institute, Boston, MA. **Abstract 5559.** Using cancer dependency data to discover tumor suppressive and oncogenic functional modules.

**Dharm S. Patel, BS**, Rutgers University, Piscataway, NJ. **Abstract 2477.** Genomic instability in BRCA1-deficient cells is a result of the anti-recombinogenic activity of BLM helicase.

**Brandilyn A. Peters, PhD**, New York University School of Medicine, New York, NY. **Abstract 4961.** The oral microbiome and prospective risk for esophageal cancer: A population-based nested case-control study.

**Vijay Ramani, PhD**, UT Southwestern Medical Center, Dallas, TX. **Abstract 1041.** Binding of soluble DC-HIL to endothelial cell creates immunosuppression on premetastatic niches.

**Alison M. Schram, MD**, Memorial Sloan Kettering Cancer Center, New York, NY. **Abstract 375.** Oncologist use and perception of large panel next generation tumor sequencing.

**Shiraj Sen, MD, PhD**, The University of Texas MD Anderson Cancer Center, Houston, TX. **Abstract 3291.** Development of a novel prognostic scoring system for patient selection in immune checkpoint inhibitor phase 1 clinical trials.
TRAVEL AWARDS

Paulina M. Wojnarowicz, PhD, Memorial Sloan Kettering Cancer Center, New York, NY. Abstract 4975. A small molecule pan Id protein antagonist shows strong antitumor activity.

Yiyi Yan, MD, PhD, Mayo Clinic, Rochester, MN. Abstract 547. Novel algorithms for spatial modeling of cellular interactions in the tumor microenvironment.

Sicong Zhang, PhD, The University of Texas MD Anderson Cancer Center, Houston, TX. Abstract 4996. The m6A hallmark of cancer: RNA demethylase ALKBH5 maintains tumorigenicity of glioblastoma stem-like cells by sustaining FOXM1 expression and cell proliferation.

2017 AACR-Gerald B. Grindey Memorial Scholar-in-Training Award

This award is presented to a meritorious proffered paper in the field of preclinical science presented at the AACR Annual Meeting 2017. 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.

Jessica M. Wagner, BS, Temple College of Medicine-Fox Chase Cancer Center, Philadelphia, PA. Abstract 3245. Preclinical evaluation of the imipridone family of small molecules, including analogues of clinical-stage anti-cancer small molecule ONC201, reveals potent anti-cancer effects of ONC212.

2017 AACR-GYRIG Scholar-in-Training Awards

Get Your Rear in Gear Philadelphia has graciously donated funds to the AACR to support early-career investigators who will be presenting meritorious proffered papers on colorectal cancer research at the AACR Annual Meeting 2017.

Rochelle E. Fletcher, BA, University of Pittsburgh Cancer Institute, Pittsburgh, PA. Abstract 1256. Non-steroidal anti-inflammatory drugs induce ER stress and have an immunomodulatory role in the suppression of colorectal tumorigenesis.

Sheetal Hardikar, MBBS, PhD, Fred Hutchinson Cancer Research Center, Seattle, WA. Abstract 2295. Association between metformin use and the risk of colorectal adenomas: A systematic review and meta-analysis.

Billy T. Lau, PhD, Stanford University School of Medicine, Stanford, CA. Abstract 2443. Massively parallel single-cell RNA-Seq identifies diverse subpopulations displaying EMT and stem-like features.

Kevin J. Lee, PhD, University of South Alabama, Mitchell Cancer Institute, Mobile, AL. Abstract 5243. Novel non-COX inhibitory sulindac derivative with β-catenin suppressing activity reduces the formation of colorectal adenomas and adenocarcinomas in the APC+/min-FCCC mouse model.


Marla D. Lipsyc, BS, Columbia University and Memorial Sloan Kettering Cancer Center, New York, NY. Abstract 4380.
Integrative genomics analysis of metastatic colorectal cancer.

Yijun Wang, MS, PhD. University of Pittsburgh Cancer Institute, Pittsburgh, PA. Abstract 1692. KRAS-mediated therapeutic resistance abrogates immunogenic cell death in colorectal cancer cells.

Jiuli Zhou, MD. University of Nebraska Medical Center, Omaha, NE. Abstract 3458. Role of zyxin in mitosis and colon cancer.

2017 AACR-June L. Biedler Scholar-in-Training Awards

These awards are for meritorious proffered papers in the field of drug resistance to be presented at the AACR Annual Meeting 2017. These awards are made possible through the Estate of Dr. June L. Biedler and shall be used in part 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.


Luigi Formisano, MD, Vanderbilt University, Nashville, TN. Abstract 1008. Gain-of-function kinase library screen identifies FGFR1 amplification as a mechanism of resistance to antiestrogens and CDK4/6 inhibitors in ER+ breast cancer.

Carl M. Gay, MD, PhD. The University of Texas MD Anderson Cancer Center, Houston, TX. Abstract 1560. Differential sensitivity analysis for resistant malignancies (DISARM), a novel approach for drug screen analysis, identifies common candidate drugs across platinum-resistant cancer types.


Charissa Kim, MPhil. The University of Texas MD Anderson Cancer Center, Houston, TX. Abstract 418. Adaptive resistance to chemotherapy in triple-negative breast cancer revealed by single cell DNA and RNA sequencing.

Michael V. Ortiz, MD. Memorial Sloan Kettering Cancer Center, New York, NY. Abstract 708. Prohibitin is a prognostic marker of treatment failure and therapeutic target to block chemotherapy resistance in Wilms tumor.

2017 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 proffered papers on melanoma research at the AACR Annual Meeting 2017.

Orsi Giricz, PhD. Albert Einstein College of Medicine, Bronx, NY. Abstract 3332. Aberrant expression of CSFR1 in melanoma is driven through an endogenous viral promoter and it contributes to malignant growth and the acquisition of resistance against BRAF inhibition.
**TRAVEL AWARDS**

**Vancheswaran Gopalakrishnan, MPH.** The University of Texas MD Anderson Cancer Center, Houston, TX. **Abstract 2672.** Response to anti-PD-1 based therapy in metastatic melanoma patients is associated with the diversity and composition of the gut microbiome.

**James T. Gordy, PhD.** Johns Hopkins School of Public Health, Baltimore, MD. **Abstract 1593.** Neutralization of IL-10 enhances antitumor efficacy of dendritic cell-targeting MIP-3α-gp100 vaccine by way of type-I interferons in B16F10 mouse melanoma model.

**Lei Jin, PhD.** The University of Newcastle, Callaghan, Australia. **Abstract 4462.** ACTN4 stabilises RIPK1 to function as an oncogenic driver in melanoma.

**Helen Thompson Michael, DVM.** National Institutes of Health, Bethesda, MD. **Abstract 1037.** Progression from melanocytic nevi to melanoma is associated with increased genomic mutations in a UV-induced mouse model of human melanoma.

**Marco Ranzani, PhD.** Wellcome Trust Sanger Institute, Cambridge, United Kingdom. **Abstract 3717.** New therapies for the treatment of BRAF/NRAS wild type melanoma.

**Victoria E. Wang, MD, PhD.** University of California, San Francisco, San Francisco, CA. **Abstract 1209.** FGFR inhibition re-sensitizes BRAF/MEK dual resistant cells to the BRAF/MEK inhibitor combination.

**2017 AACR-MEG Scholar-in-Training Awards**

These awards are for meritorious proffered papers in molecular epidemiology that will be presented at the AACR Annual Meeting 2017, 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 in the Working Group.

**Yin Cao, ScD.** Massachusetts General Hospital and Harvard Medical School, Boston, MA. **Abstract 3012.** Long-term aspirin use and total and cancer-specific mortality.

**Ben Kinnersley, PhD.** Institute of Cancer Research, Sutton, United Kingdom. **Abstract 1302.** Genome-wide association study of glioma reveals specific differences in genetic susceptibility to glioblastoma and non-glioblastoma.

**Lang Wu, PhD.** Vanderbilt University Medical Center, Nashville, TN. **Abstract 1301.** Identification of novel susceptibility loci and genes for prostate cancer risk: A large transcriptome-wide association study in over 143,000 subjects.

**2017 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 proffered papers on advanced prostate cancer at the AACR Annual Meeting 2017.

**Seaho Kim, PhD.** Weill Cornell Medicine, New York, NY. **Abstract 1590.** High intranuclear mobility of AR-v7 reveals distinct mode of transcriptional activity in prostate cancer with important therapeutic implications.
Haolong Li, MS. University of British Columbia, Vancouver, BC, Canada. Abstract 1576. UGT2B17 promotes castration-resistant prostate cancer progression through enhancing ligand-independent AR signaling.

Yingjie Xu, PhD. Boston Children’s Hospital, Harvard Medical School, Boston, MA. Abstract 1231. Restoration of tumor suppression in vivo by systemic delivery of PTEN mRNA nanoparticles.

2017 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.

Salome Adam, MSc. University of Zurich, Zurich, Switzerland. Abstract 2763. Health-related quality of life among long-term prostate cancer survivors by primary treatment: A systematic review.


Giovanni Marconi, MD. University of Bologna, Bologna, Italy. Abstract 3311. The alteration in key regulator genes of autophagy is mainstream mechanism of therapy resistance and impact prognosis of acute myelogenous leukemia (AML): results from diagnosis genomic analysis on 148 consecutive patients treated with intensive chemotherapy and long-term survival follow-up.


Bangwen Xie, PhD. University of Cambridge, Cambridge, United Kingdom. Abstract 2866. Volumetric optoacoustic imaging of tumor cell death using a targeted imaging agent.

2017 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 2017.

Lorenzo Castagnoli, MSc. Fondazione IRCCS Istituto Nazionale dei Tumori, Milan, Italy. Abstract 5428. Lactate production as a potential marker of HER2-addiction and Trastuzumab susceptibility.
TRAVEL AWARDS

Alessandra Cataldo, PhD, IRCCS Istituto Nazionale dei Tumori, Milan, Italy. Abstract 5437. miR-302b as adjuvant therapeutic tool to improve chemotherapy efficacy in human triple-negative breast cancer.

Rosaria Chilà, MSc, IRCCS - Institute for Pharmacological Research Mario Negri, Milan, Italy. Abstract 2352. Effect of inhibition of cell cycle versus transcription cyclin-dependent kinases (CDKs) in ovarian cancer cells.

Federica Guffanti, MSc, IRCCS - Institute for Pharmacological Research Mario Negri, Milan, Italy. Abstract 508. DNA repair status in a patient derived ovarian cancer xenobank.

Andrea Resovi, PhD, IRCCS - Institute for Pharmacological Research Mario Negri, Milan, Italy. Abstract 2981. Identification of circulating stroma-related biomarkers for pancreatic ductal adenocarcinoma.

Michele Sommariva, PhD. University of Milan, Milan, Italy. Abstract 3699. Activation of NK cells cytotoxicity mediated by alveolar macrophages in the lung against murine melanoma metastases by combined aerosol immunotherapy.

Piera Tocci, PhD, Regina Elena National Cancer Institute, Rome, Italy. Abstract 1197. Endothelin-1 receptor/β-arrestin1 is an actionable node that regulates YAP/TAZ signaling and chemoresistance in high-grade ovarian cancer.

Ignazia Tusa, PhD, University of Florence, Firenze, Italy. Abstract 3904. Inhibition of the ERK5 pathway as a novel approach to target human chronic myeloid leukemia stem cells.

2017 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 proffered papers relating to cholangiocarcinoma.

Majda Haznadar, PhD, National Cancer Institute, Bethesda, MD. Abstract 2500. Urinary metabolites are diagnostic biomarkers of liver cancer.

Jessica L. Petrick, PhD, National Cancer Institute, Bethesda, MD. Abstract 3007. Tobacco smoking, alcohol use and risk of hepatocellular carcinoma and intrahepatic cholangiocarcinoma: The Liver Cancer Pooling Project.

2017 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 and faculty of Minority-Serving Institutions (MSI) at the AACR Annual Meeting 2017. 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 of minority faculty and faculty at Minority-Serving Institutions and congratulates these outstanding Scholars.

The names and affiliations of 2017 Minority and Minority-Serving Institution Faculty Scholars are listed below, along with the numbers and titles of their presentations.

**Yousef Ahmadibeni, PhD**, Tennessee State University, Nashville, TN. *Abstract 2180*. Triphenylmethanol conjugates of leuprorelin as anti-cancer prodrugs.

**Olatunji B. Alese, MD**, Winship Cancer Institute of Emory University, Atlanta, GA. *Abstract 8127*. BMS-986205, an optimized indoleamine 2,3-dioxygenase 1 (IDO1) inhibitor, is well tolerated with potent pharmacodynamic (PD) activity, alone and in combination with nivolumab (nivo) in advanced cancers in a phase 1/2a trial.

**Seyung S. Chung, PhD**, Charles Drew University of Medicine and Science, Los Angeles, CA. *Abstract 111*. Targeting STAT3 and telomerase for the treatment of colorectal cancer.

**Armando Del Portillo, MD, PhD**, Columbia University Medical Center, New York, NY. *Abstract 5532*. Functional role of Friend Leukemia Integration-1 (FLI1) in gastric carcinogenesis.

**Ingrid C Espinoza, PhD**, University of Mississippi Medical Center, Jackson, MS. *Abstract 4716*. Stemness markers in colorectal cancer: Analysis in a racially-diverse population.

**Christian R. Gomez, PhD**, University of Mississippi Medical Center, Jackson, MS. *Abstract 4094*. Accumulation of hepatoma up-regulated protein in prostate cancer cells inhibits bortezomib-induced apoptosis.

**Mingli Liu, MD, PhD**, Morehouse School of Medicine, Atlanta, GA. *Abstract 3128*. TRPM7 regulates glioma cell proliferation and migration through different function domains.

**Alicia C. McDonald, PhD**, Penn State University College of Medicine, Hershey, PA. *Abstract 4241*. Circulating microRNAs in plasma of men screened for prostate cancer.


**Harold Ivan Saavedra, PhD**, Ponce Health Sciences University, Ponce, PR. *Abstract 3461*. The Nek2 mitotic kinase drives centrosome amplification, mitotic dysfunction, and invasion in mammary epithelial and breast cancer cells.

**David Julian Sanabria-Rios, PhD**, Inter American University of Puerto Rico-Metropolitan Campus, San Juan, PR. *Abstract 5157*. Preparation of curcumin analog nanoparticles and determination of their anticancer activity in prostate cancer.

**Gangadhara Reddy Sareddy, PhD**, UT Health Science Center at San Antonio, San Antonio, TX. *Abstract 4764*. Activation of estrogen receptor beta signaling reduces stemness and promotes differentiation of glioma stem cells.
TRAVEL AWARDS


Maria S. Sosa, PhD, Icahn School of Medicine at Mount Sinai, New York, NY. Abstract 3922. NR2F1 limits dissemination and stemness of early breast cancer cells.

Syreeta L. Tilghman, PhD, Florida A&M University College of Pharmacy, Tallahassee, FL. Abstract 3183. Proteomic characterization of aromatase inhibitor resistant mammospheres reveals the presence of a novel nuclear chaperone.

Danyell Wilson, PhD, Bethune-Cookman University, South Daytona, FL. Abstract 8451. Gender and racial disparities in incidence trends of tobacco related cancers from 2010 to 2013.

Xiaohe Yang, PhD, North Carolina Central University, Kannapolis, NC. Abstract 2223. Rapamycin suppresses ErbB2-overexpressing mammary tumors through selective inhibition of luminal progenitor cells and tumor-initiating cells.

2017 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.

For 32 years, the AACR has endeavored through this program to reach out to minority predoctoral and postdoctoral students and trainees 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 2017 Minority Scholar Award recipients, along with the numbers and titles of their presentations, where appropriate, are listed below.
Oluwole A. Babatunde, MBBS, Graduate Research Assistant, University of South Carolina, Columbia, SC. **Abstract 4216.** Racial disparities in receipt of adjuvant hormonal therapy among patients diagnosed with breast cancer in South Carolina.

Doratha A. Byrd, MS, Graduate Student, Emory University Rollins School of Public Health, Atlanta, GA. **Abstract 3287.** Associations of whole food and lifestyle-based inflammation scores with all-cause, cancer- and cardiovascular disease-specific mortality.

Nicole Coggins, BS, Graduate Student, University of California, Davis, Davis, CA. **Abstract 1445.** Understanding the 8q24 colorectal cancer risk locus via CRISPR/Cas9 scarless genome editing.

Jason E. Conage-Pough, BS, Graduate Student, Emory University Winship Cancer Institute, Atlanta, GA. **Abstract 4307.** Characterizing the differential phosphorylation of Bim in plasma cell disorders.

Simon Gebremeskel, BS, PhD Candidate, Dalhousie University, Halifax, NS. **Abstract 5669.** Targeting post-surgical breast cancer metastasis through combining natural killer T cell immunotherapy and low dose chemotherapy.

Liz J. Hernandez Borrero, MS, Graduate Student, Fox Chase Cancer Center, Philadelphia, PA. **Abstract 5178.** CB002, a novel p53 pathway-restoring compound that induces apoptosis through NOXA expression.


Merricka C. Livingstone, BS, Graduate Student, Johns Hopkins University School of Public Health, Baltimore, MD. **Abstract 4448.** Elevated levels of circulating miR-34a-5p and miR-181c-3p during cancer initiation by aflatoxin B1.

DeAnna L. McGarity, MD, Cancer Research Fellow/Patient Navigator, Morehouse School of Medicine, Atlanta, GA. **Abstract 768.** The utility of a breast cancer registry for improved cancer management in developing countries.

David J. Olivos, PhD, Postdoctoral Fellow, Indiana University School of Medicine, Indianapolis, IN. **Abstract 2552.** MDM2 Induces cell fusion in breast cancer and osteosarcoma.

Benjamin C. Onyeagucha, PhD, Postdoctoral Fellow, University of Texas Health Science Center San Antonio, San Antonio, TX. **Abstract 2336.** Novel regulatory mechanisms for Bcl2-related ovarian killer (BOK) expression in breast cancer.

Myrna L. Ortiz, MS, Post Doctoral Fellow, Moffitt Cancer Center, Tampa, FL. **Abstract 689.** Immune checkpoint targeting to improve Immunotherapy for neuroblastoma.

Marigdalia K. Ramirez-Fort, MS, Postdoctoral Research Fellow, SUNY Downstate Medical Center, Brooklyn, NY. **Abstract 1905.** Possible cancer stem cells: Folate hydrolase-1 is expressed in a subset of Oct4-positive melanoma cells.

Ariana N. Renrick, BS, Graduate Student, Meharry Medical College, Nashville, TN. **Abstract 647.** Bortezomib enhances CD8+ T lymphocyte antitumor effector function: Potential mechanism(s) via notch regulation.
Sergio Rey, MD, PhD, Postdoctoral Fellow, Princess Margaret Cancer Centre, Toronto, ON. Abstract 4510. ADP-dependent glucokinase controls hypoxic gradients, ex vivo avascular and in vivo tumor growth through modulation of HIF-1α/mTOR signaling.

Monica E. Reyes, PhD, Postdoctoral Fellow, University of Texas MD Anderson Cancer Center, Houston, TX. Abstract 4086. RNAseq hiPSC-cardiomyocytes reveals altered expression of DNA damage and cell cycle genes in response to doxorubicin.

Rebeca Romero Aburto, PhD, Postdoctoral Fellow, University of Texas MD Anderson Cancer Center, Houston, TX. Abstract 887. Magnetic relaxometry detection of stealth, antibody-targeted micellar iron oxide nanoparticles in-vivo.

Sarah M. Totten, PhD, Postdoctoral Research Fellow, Stanford University School of Medicine Canary Center for Cancer Early Detection, Palo Alto, CA. Abstract 2213. Aberrant glycoprotein expression in recurrent and non-recurrent prostate cancer tissue.

Carla R. Zeballos, MD, Postdoctoral Research Fellow/Cancer Biology T32 Post-Doctoral Fellow, University of Texas Health Science Center at San Antonio, San Antonio, TX. Abstract 5425. The role of six transmembrane epithelial antigen of the prostate 2 in hepatocellular carcinoma.

2017 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 2017. Scholars are selected on the basis of their qualifications, references from mentors, and an estimation of the potential professional benefit to the awardees.

This year we are pleased to announce that Ed and Jaqueline Gieselmann and the Kelly Golat Memorial Fund for Melanoma Research have provided support to fund the participation of ten (10) young investigators, listed below, to attend the AACR Annual Meeting 2017.

The names and affiliations of 2017 Women in Cancer Research Scholars, along with the numbers and titles of their presentations, are listed below.


Leila Dardaei, PhD, Massachusetts General Hospital Cancer Center, Charlestown, MA. Abstract 1077. SHP2 inhibition restores sensitivity to ALK inhibition in resistant ALK-rearranged non-small cell lung cancer (NSCLC).


Shuning He, PhD, Dana-Farber Cancer Institute, Boston, MA. Abstract 801. A zebrafish model of NF1-mutant melanomas that lack activating mutations of BRAF or NRAS.
Xiaoshuang Li, MS, Florida International University, Miami, FL. Abstract 1978. Identification of the metastatic cell populations in a mouse model of melanoma.

Golnaz Morad, DDS, Harvard University, Boston Children’s Hospital, Boston, MA. Abstract 5808. The role of breast cancer-derived exosomes in brain metastasis.


Marie-Laurence Tremblay, PhD, IWK Health Center, Halifax, NS. Abstract 873. Evaluating immunotherapy effects using pre-clinical molecular imaging tools for quantitative immune cell tracking.

Angelina Vaseva, PhD, UNC Lineberger Comprehensive Cancer Center, Chapel Hill, NC. Abstract 4458. Regulation of MYC protein stability by mutant KRAS in pancreatic ductal adenocarcinoma.

Smruthi Vijayaraghavan, BS, UT MD Anderson Cancer Center, Houston, TX. Abstract 2338. CDK4/6 and Autophagy inhibitors synergize to induce senescence in cancers with an intact G1/S checkpoint.

2017 AACR African Cancer Researchers Travel Awards

For the second consecutive year, the AACR is pleased to offer the African Cancer Researchers Travel Award to five 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. Eligible scientists are full-time graduate students, medical students, clinical or postdoctoral fellows, or faculty members. The travel awards include complimentary registration to the Annual Meeting in addition to $3,000 towards the cost of housing and travel.

The names and affiliations of the 2017 African Cancer Researchers Award recipients, along with the numbers and titles of their presentations, are listed below.

Amira Said Abd El-Moty Abd El-Aal Fyala, MSc, PhD Candidate, Alexandria University, Egypt. Abstract 928. Combined treatment by manuka honey and metformin inhibited growth and induced apoptosis in CD133+ and CD90+ subpopulation hepatocellular carcinoma cancer stem cells.

Sara Salama Ibrahim Ghazy, BSc, Alexandria University, Egypt. Abstract 4440. New predictive and preventive biomarkers for preclinical hepatocellular carcinoma in Egyptian population by detection of serum miRNAs.

Catherine Hart Kaschula, PhD, University of Cape Town, South Africa. Abstract 5227. Synthesis of a biotin probe for identification of the ajoene protein targets in cancer cells ajoene protein targets in cancer cells.

Virna Leaner, PhD, University of Cape Town, South Africa. Abstract 1069. Inhibition of the nuclear import receptor, KpnB1 synergizes with cisplatin toxicity in cervical cancer cells.

Mubarak Labaran Liman, MSc, PhD Candidate, Nuhu Bamalli Polytechnic Zaria, Nigeria. Abstract 1269. Preventive potentials of the fruits of Detarium microcarpum on N-methyl nitrosourea (MNU) induced colon carcinogenesis in rats.
AACThomas J. Bardos Science Education Scholar Awards for Undergraduate Students

The AACR is pleased to announce the recipients of 2017 AARC-Thomas J. Bardos Science Education Scholar Awards for Undergraduate Students. 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.

AACR Science Education Awards were founded in 1997 and supported by generous annual contributions from a distinguished member of the AACR, Dr. Thomas J. Bardos and matched by those of AACR. In 2017, Dr. Oliver Bogler, The Rockefeller Press, and the AACR have all generously provided funding for these awards. The Board of Directors of the AACR expresses its deep appreciation to these funders for their generous contributions and support of this program.

The names and affiliations of the 2017 Awardees are listed below, along with the numbers and titles of their abstract presentations, where appropriate. Congratulations are extended to these talented young scholars.
Connor J. Peck, Brigham Young University, Provo, UT. Abstract 252. Resveratrol and pterostibene selectively chemosensitize Burkitt’s lymphoma cells to 5-Fluorouracil.


Zachary Z. Reinstein, Brigham Young University, Provo, UT. Abstract 1230. Talazoparib, a second generation PARP inhibitor, is a novel therapy for PTEN mutants in prostate cancer.

Sounak Roy, Johns Hopkins University, Baltimore, MD. Abstract 903. CXCR4 and CXCR7 play distinct and overlapping roles in prostate cancer dissemination to bone.


2017-2018 AACR-Thomas J. Bardos Science Education Scholar Awardees


Xuewen (Kirsten) Chen, University of North Carolina at Chapel Hill, Chapel Hill, NC. Abstract 446. Differential effects of folate depletion on metabolic reprogramming and oxidative stress in nonmetastatic and metastatic claudin-low breast cancer cells.

Leah V. Dodds, University of Miami, Miami, FL. Abstract 1454. Estrogen receptor signaling in FTE of BRCA mutation carriers.

Chris Giuliano, Stony Brook University, Stony Brook, NY. Abstract 4190. CRISPR/Cas9 mutagenesis invalidates a genetic target of clinical trials in cancer.


Monika Perez, University of Tulsa, Tulsa, OK. Abstract 5370. Examination of DNA looping near oncogenes reveals variable patterns of epigenetic landscapes in cancer.

Mabel G. Pérez-Oquendo, University of Puerto Rico, San Juan, San Juan, PR.