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ANNUAL MEETING 2023

ADVANCING THE FRONTIERS OF CANCER SCIENCE AND MEDICINE

ORLANDO • APRIL 14-19
#AACR23 • AACR.ORG/AACR2023

PROGRAM GUIDE

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American Association
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ANNUAL MEETING

2023

About the cover image:

The collaborative efforts of scientists and clinicians to prevent and cure cancer in all populations around world are at the center of the AACR's mission.

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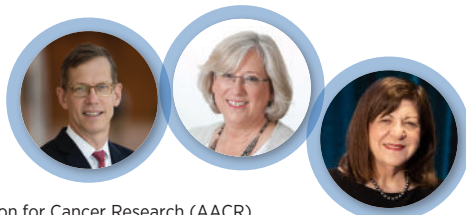
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WELCOME



Dear Members and Friends of the AACR,

We are excited to welcome you to the American Association for Cancer Research (AACR) Annual Meeting 2023 – the 114th Annual Meeting of the AACR! Whether you are joining us in person in Orlando or participating virtually, we look forward to a week of innovative science and synergistic collaborations.

Through the hard work and expert guidance from members of our Annual Meeting Program Committee, Education Committee, and Clinical Trials Committee, we have developed a multidisciplinary program that embodies the theme of this year's meeting – "Advancing the Frontiers of Cancer Science and Medicine." This theme reflects the critical role that the AACR and its Annual Meeting play in defining the research agenda for the cancer field and for the benefit of cancer patients.

A comprehensive slate of educational sessions and methods workshops, which present state-of-the-art concepts and technologies across the full spectrum of cancer science and medicine, begins at 3:00 p.m. on Friday, April 14, and run through Saturday, April 15. If you did not already purchase the Education Pass, please stop by the Registration desk and add it to your registration to ensure that you have access to these foundational sessions during and after the meeting.

The educational program is followed by a robust scientific program that showcases the latest advances in the etiology, biology, prevention, detection, diagnosis, and treatment of cancer. The Opening Plenary Session addresses the theme of the meeting and set the tone for a week of groundbreaking science. Daily plenary sessions address critical topics in the field, including the KRAS story, early detection and interception, immune ecosystems, and drug discovery and engineering. Major symposia present the latest discoveries from across the continuum of basic, translational, clinical, prevention, and population research. Advances sessions highlight the current state of the science and address emerging challenges in areas such as diagnosis and therapeutics, organ site research, population sciences, prevention research, and the science of cancer health disparities. And Forums offer the opportunity to engage in lively conversation with experts around provocative questions. Several of the major scientific sessions showcase the work of the 2023 AACR NextGen Stars. A total of 14 emerging early-career scientists have been selected as NextGen Stars through a highly competitive application process, and we look forward to their presentations.

During the meeting, we are excited to celebrate the 25th anniversary of the AACR Scientist↔Survivor Program® (SSP), which builds enduring partnerships among the leaders of the scientific, cancer survivor, and patient advocacy communities. By welcoming patient advocates to the meeting to attend sessions with scientist-mentors, SSP fosters an exchange in which patients and advocates explore the biology behind treatment decisions and scientists learn about the impact that their work has on the patient experience. The meeting program also features a number of special sessions on topics of interest to the various sectors of the cancer community. This year's Presidential Select Symposium focuses on the critical issues that patients and families face when receiving a cancer diagnosis while pregnant or when considering a pregnancy, and the three-part series of New Drugs on the Horizon sessions offer first disclosures of the chemical structures of novel agents against emerging cancer targets. And in addition to the plenary session that showcases the "30-year overnight sensation" of recent successes in targeting RAS, a symposium celebrates the 25th anniversary of the discovery and preclinical and clinical development of trastuzumab, which established the current paradigm in personalized medicine and global drug discovery.

The scientific sessions are livestreamed to the virtual meeting platform for virtual and in-person meeting registrants. Microphones are available in the rooms for discussion periods, but both in-person and virtual attendees are also encouraged to submit questions to the speakers using the virtual platform or the meeting app.

We deeply appreciate the work done by members of the Scientific Program Committee who reviewed over 6,000 proffered papers that were submitted to the Annual Meeting and organized them into poster sessions and minisymposia. These proffered papers include nearly 250 clinical trials presented in Clinical Trials Plenary Sessions, minisymposia, and poster sessions. During the Clinical Trials Plenary Sessions, highly rated trials are paired with a presentation focusing on the science behind the trial and its implications for delivering improved care to patients.

Finally, we extend our gratitude to the corporations, organizations, and foundations that have provided generous support for AACR Annual Meeting 2023. These valued partners have enabled us to host this critically important scientific and clinical forum that lays the groundwork for fruitful collaborations and future advances against cancer. Their commitment also fosters the professional advancement of the next generation of leaders in cancer research through the support of numerous scientific sessions, research grants, scholar-in-training awards, and scientific merit awards.

Thank you for joining us! We look forward to an exciting week of spectacular scientific talks, stimulating discussions among colleagues, and innovative ideas about how to markedly decrease cancer incidence, morbidity, and mortality around the world. Please plan to attend the wrap-up Plenary Session on Wednesday, April 19, to hear about some of the highlights from the week. And if you miss anything on this huge program, recordings of the scientific and educational sessions may be viewed on our virtual meeting platform through July 19.

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GENERAL INFORMATION

Room Name	Location	Opens	Phone #
AACR Office	Room W 222	Thursday, 6:00 a.m.	407-685-4005
AACR Exhibit Booth (AACR Central) AACR Amphitheater Associate Member Resource and Career Center Membership Center Minorities in Cancer Research (MICR) Networking and Resource Center Women in Cancer Research (WICR) Networking and Resource Center	Exhibit Hall, Booth 443	Sunday, 1:00 p.m.	
AACR Publications Booth	Exhibit Hall, Booth 2743	Sunday, 1:00 p.m.	
CancerCareers.org Center	West Lobby C	Sunday, 9:00 a.m.	
CME Booth	West Lobby D	Friday, 12:00 p.m.	
AACR Information Booth	West Lobby D	Friday, 12:00 p.m.	407-685-4006
Coat, Package, and Luggage Check	Level 1 West Lobby A	Friday, 12:00 p.m.	
Child Care	Room W110A	Friday, 12:00 p.m.	407-685-4002
Exhibit Management Office	W Hall E	Friday, 12:00 p.m.	
Exhibitor Lounge	W Hall B and W Hall E	Friday, 12:00 p.m.	
Housing Booth (CMR)	West Lobby D	Friday, 12:00 p.m.	407-685-4007
First Aid Station	West Lobby C	Thursday, 7:00 a.m.	
Membership Booth	West Lobby D	Friday, 12:00 p.m.	
Membership Hub	West Lobby C	Friday, 12:00 p.m.	
NCI/NIH Meeting Room	W314 B	Sunday, 9:00 a.m.	
Nursing Suite	West Lobby B West Lobby C West Lobby EF	Friday, 2:30 p.m.	
Prayer Room	Room W107	Friday, 12:00 p.m.	
Press Office	Room W208	Friday, 12:00 p.m.	
Registration	West Lobby D	Friday, 12:00 p.m.	
AACR Scientist↔Survivor Program® Room	Room W 308 CD	Sunday, 6:30 a.m.	
Speaker Preparation Room	Room W221	Friday, 12:00 p.m.	

GENERAL INFORMATION *(cont'd)*

Registration

Registration will be located in West Lobby D on the following schedule:

Friday, April 14	12:00 p.m.-7:00 p.m.
Saturday, April 15	7:00 a.m.-6:00 p.m.
Sunday, April 16	7:00 a.m.-6:00 p.m.
Monday, April 17	7:00 a.m.-6:00 p.m.
Tuesday, April 18	7:00 a.m.-6:00 p.m.
Wednesday, April 19	7:00 a.m.-12:00 p.m.

Exhibit Hall

The Exhibit Hall is located in Halls B-E1. Exhibit hours are:

Sunday, April 16	1:00 p.m.-5:00 p.m.
Monday, April 17	9:00 a.m.-5:00 p.m.
Tuesday, April 18	9:00 a.m.-5:00 p.m.
Wednesday, April 19	9:00 a.m.-12:30 p.m.

Housing

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

Friday, April 14	12:00 p.m.-6:00 p.m.
Saturday, April 15	7:00 a.m.-6:00 p.m.
Sunday, April 16	7:00 a.m.-6:00 p.m.
Monday, April 17	7:00 a.m.-6:00 p.m.
Tuesday, April 18	7:00 a.m.-6:00 p.m.
Wednesday, April 19	7:00 a.m.-12:00 p.m.

Shuttle Bus Transportation

There is shuttle bus service between a number of hotels in the AACR block and the Orange County Convention Center (OCCC) outside Halls D-F. Shuttle bus service will operate on the following schedule in 10-15 minutes intervals until 10:00 a.m. and after 4:00 p.m. and in 30-minute intervals during mid-day hours unless otherwise noted:

Friday, April 14	11:30 a.m.-6:30 p.m. (30-minute intervals all day)
Saturday, April 15	6:30 a.m.-7:00 p.m.
Extended Saturday service	7:00 p.m. - 9:30 p.m. (30-minute intervals from OCCC to hotels only)
Sunday, April 16	6:30 a.m.-7:00 p.m. (15-minute intervals until 1:00 p.m.)
Extended Sunday service	7:00 p.m.-11:59 p.m. (Annual Reception return shuttle to hotels)
Monday, April 17	6:30 a.m.-7:00 p.m.
Extended Monday service	7:00 p.m. - 9:30 p.m. (30-minute intervals from OCCC to hotels only)
Tuesday, April 18	6:30 a.m.-7:00 p.m.
Extended Tuesday service	7:00 p.m. - 9:30 p.m. (30-minute intervals from OCCC to hotels only)
Wednesday, April 19	6:30 a.m.-7:00 p.m.

Please note that all shuttles depart from and arrive at the Orange County Convention Center outside Halls D-F. Attendees of events at the headquarters hotels must return to the Orange County Convention Center to obtain shuttle service. Shuttle schedules will be available at AACR block hotels and the Information Desk at the Convention Center in West Lobby D.

Membership

With over 54,000 members in over 130 countries and territories, the AACR comprises leaders and future leaders focused on every aspect of high-quality innovative cancer research. We firmly believe that our members play an integral part in achieving our mission.

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

MEMBERSHIP HUB

The Membership Hub is a home base for AACR members to refresh, connect, and learn more about AACR's events, programs, and activities, during the meeting. Attendees are encouraged to engage with colleagues from around the world, join Association Groups, become more involved

in AACR programs and activities, and share member experiences. Not a member? Stop by the Hub and join!

MEMBERSHIP FOR EARLY-CAREER TRAINEES AND STUDENTS

The AACR is committed to the education, training, and professional development of early-career researchers, trainees, and students. Membership is FREE for graduate students, medical students, residents, postdoctoral or clinical fellows, undergraduate students, and high school students who are enrolled in education or training programs that could lead to a career in cancer research. Visit the Membership Hub, Membership Center at AACR Central, or Membership Booth (Registration) to learn more about this amazing opportunity to join our esteemed association.

AACR NEW MEMBER NETWORKING MIXER

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

GENERAL INFORMATION *(cont'd)*

MEMBER APPRECIATION BREAKFAST: CELEBRATING AACR LONG-TERM MEMBERS

The AACR is extremely pleased to recognize those scientists who have been long-term members of the association for 25 years and more. The AACR board of directors extends its sincere and heartfelt thanks to these members for their devotion to cancer research and long participation in and support of the AACR. Visit the Membership Hub for more information.

MEET THE 2023-2024 AACR PRESIDENT, PHILIP D. GREENBERG, MD, FAACR

The Meet the 2023-2024 AACR President event provides an opportunity for AACR members and Annual Meeting attendees to meet informally with the 2023-2024 AACR President, Dr. Philip D. Greenberg, to congratulate him on his presidency and ask general questions. Join us Tuesday, April 18, 1:30-2:30 p.m. in the AACR Central Amphitheater (Exhibit Booth 443).

in Cancer Research (WICR) Council, and the AACR Science Education and Career Advancement Committee.

Space is limited, and participation by AACR members for all sessions is available on a first-come, first-served basis, except for the Personalized Career Conversations and Productive Peer Review sessions which require advance registration.

AACR Annual Meeting Information Booth

The AACR Annual Meeting Information Booth is located in West Lobby D. It will be open during session hours to provide information about the AACR, the AACR Annual Meeting, and the city of Orlando. Staff members will be available to assist you with city and convention center maps, shuttle bus schedules, and information on AACR's programs.

Professional Advancement Series

Professional Advancement Series of sessions are organized to provide important skills to investigators at all levels, from junior faculty to high school students. These sessions are an exclusive benefit for AACR members. For all Professional Advancement Sessions, attendance is free for members with your Annual Meeting registration. The Professional Advancement Series of sessions are organized in a collaborative effort between the Associate Member Council (AMC), Minorities in Cancer Research (MICR) Council, Women

Speaker Preparation Room

Speakers should visit the Speaker Preparation Room located in Room W221 of the Convention Center at least four hours before their sessions begin to test their presentations. The Speaker Preparation Room will be open on Friday, April 14, from 12:00 p.m. to 6:30 p.m., daily during the meeting from 6:30 a.m. to 6:30 p.m., and will close on Wednesday, April 19, 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 is located in Room W208 of the Convention Center. It will be open from 12:00 p.m. to 6:00 p.m., Friday, April 14; 7:30 a.m. to 6:00 p.m., Saturday, April 15 through Tuesday, April 18; and 7:30 a.m. to 12:00 p.m., Wednesday, April 19. The AACR’s press contacts are Kathleen Venango, Manager of Public Relations, 215-290-5408, kathleen.venango@aacr.org; Julia Gunther, Director of Public Relations, 770-403-7690, julia.gunther@aacr.org; and Rick Buck, Chief Communications Officer, 856-562-5668, rick.buck@aacr.org.

Child Care

Professional childcare services, administered by KiddieCorp, will be in Room W110A of the Convention Center on the following schedule:

Friday, April 14	12:00 p.m.- 6:30 p.m.
Saturday, April 15	7:00 a.m.- 6:30 p.m.
Sunday, April 16	6:30 a.m.-7:00 p.m.
Monday, April 17	6:30 a.m.-7:00 p.m.
Tuesday, April 18	6:30 a.m.-7:00 p.m.
Wednesday, April 19	6:30 a.m.-1:30 p.m.

As a convenience for registrants, the AACR will cover the cost of this service. Snacks and beverages are included, but meals must be provided by parents/guardians. 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, and the AACR will follow all CDC recommendations for our COVID-19 policies at the AACR Annual Meeting. Advance registration was recommended. On-site registration will be permitted as space allows.

Nursing Mothers Suites

Annual Meeting participants who are also nursing mothers will find the built-in Wellness Rooms at the Orange County Convention Center to be a private, comfortable, and secure environment. AACR-Women in Cancer Research (WICR) is pleased to sponsor this important service again in 2023. There are three Wellness Rooms in the Convention Center, one located in the West Lobby B area on Level One, one in West Lobby C, and one in West Lobby EF, both of which are on level 2. Hours for the Nursing Mothers Suites are as follows:

Friday, April 14	12:00 p.m.-7:00 p.m.
Saturday, April 15	7:00 a.m.-6:00 p.m.
Sunday, April 16	6:30 a.m.-6:00 p.m.
Monday, April 17	6:30 a.m.-6:00 p.m.
Tuesday, April 18	6:30 a.m.-6:00 p.m.
Wednesday, April 19	6:30 a.m.-12:00 p.m.

GENERAL INFORMATION *(cont'd)*

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.

To view more information or register for any of these symposia, visit [AACR.org/satellite23](https://aacr.org/satellite23).

A New Era of Early-Stage Cancer Care: A Think Tank Discussion on the Clinical Impact of Pathologic Response to Immunotherapy

Saturday, April 15 | 6:30 p.m.-9:00 p.m.
Grand Ballroom B, Rosen Centre Hotel

Designing and Using Antibody-Drug Conjugates to Treat Solid Tumors

Saturday, April 15 | 6:30 p.m.-8:15 p.m.
Grand Ballroom A, Rosen Centre Hotel

The Advancing Role of PARP Inhibitor Combination Therapies to Improve Outcomes for Patients with mCRPC

Sunday, April 16 | 6:30 p.m.-8:30 p.m.
Grand Ballroom A, Rosen Centre Hotel

Targeting TROP2 and HER3: Perspective on the Next Precision Treatment Advances Across Solid Tumors

Sunday, April 16 | 6:30 p.m.-9:00 p.m.
Grand Ballroom B, Rosen Centre Hotel

Exhibitor Spotlight Theaters

Located in the Exhibit Hall, W Hall D, the Exhibitor Spotlight Theaters have been reserved by exhibiting companies to present special one-hour sessions during exhibit hours. For a full list of presentations taking place in Spotlight Theaters A, B, C, D, and E, please refer to the Annual Meeting App.

Explore!

Explore! is a fun way attendees can interact with exhibitors while entering a drawing for \$250 Amazon gift cards. Download the AACR Annual Meeting App. Scan the QR codes when visiting participating exhibitors and special locations 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.

Headshot Lounge

Need a new headshot? Don't forget to stop by the Headshot Lounge, supported by AstraZeneca, located in the Exhibit Hall, Booth 2875. Professional photographers will be available to provide you with the perfect headshot for your next business card, resume, etc. Receive access to your digital headshot and share on social media.

Charging Stations/Lounges

Located in the Exhibit Hall and Convention Center lobby, these charging lounges, supported by Daiichi Sankyo, provide attendees ample opportunity to charge their devices and take a well-deserved break during the meeting. Bring your cords, grab a snack, sit and relax.

Wellness Lounge

Stop by our Wellness Lounge Supported by AstraZeneca in the Exhibit Hall, Booth 3379 to relax, sit back and take a much need respite. Therapy Dogs provided by Orlando Health will be available in the afternoons Sunday through Tuesday from 1:00 p.m.-5:00 p.m. Seated hand or neck massages will be available during Exhibit Show hours. Make this lounge a must visit while visiting with exhibitors.

Enhanced Refreshment Breaks

Don't miss the Refreshment Breaks in the Exhibit Hall on Monday, April 17 and Tuesday, April 18, starting at 1:30 p.m. Light snacks and coffee will be available. Strategically located food and beverage stations are the ideal platform for interaction between attendees and exhibitors.

Food Court and Coffee Breaks

Coffee breaks are located throughout the Exhibit Hall. Grab a cup while you walk the aisles and engage with exhibitors. Additionally, in the back of the exhibit hall,

you will find two food courts, with ample seating. Take a break for lunch in the Exhibit Hall. A variety of food outlets will be available. All food and beverage outlets in the Orange County Convention Center are credit card only. No cash is accepted.

AACR Shop

Located in W Hall B1 Lobby

Stop by the AACR Shop, located just outside of the Exhibit Hall. Shop new items for yourself or souvenirs for loved ones.

Saturday, April 15	1:00 p.m.-5:00 p.m.
Sunday, April 16	1:00 p.m.-5:00 p.m.
Monday, April 17	9:00 a.m.-5:00 p.m.
Tuesday, April 18	9:00 a.m.-5:00 p.m.
Wednesday, April 19	9:00 a.m.-12:00 p.m.

AACR Central

AACR Central serves as a hub for information and services for attendees and also as an event space for various programs. Open during Exhibit Hall hours, AACR Central is located centrally in the Exhibit Hall and is home to the Amphitheater, Membership Center, MICR Networking and Resource Center, WICR Networking and Resource Center, and information kiosks covering: Scientific Meetings and Workshops; AACR Foundation; AACR Publications; Scientific Review and Grants Administration; Science Policy and Advocacy; and much more.

GENERAL INFORMATION *(cont'd)*

At AACR Central, 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), Minorities in Cancer Research (MICR), Women in Cancer Research (WICR), the Science Education and Career Advancement Committee, and others.
- Find additional information on AACR's conferences, award programs, advocacy efforts, and the AACR Foundation.
- Pick up copies of *Cancer Today*, AACR's peer-reviewed journals, the *AACR Cancer Progress Report*, the *AACR Cancer Disparities Progress Report*, and *Leading Discoveries* magazine.

Cancer and Biomedical Research Career Fair

The 2023 Cancer and Biomedical Research Career Fair is coming to Orlando, on Saturday, April 15, from 9:00 a.m. to 3:00 p.m. in W Hall C of the Orange County Convention Center. Building upon the success of AACR's previous Career Fairs, the 2023 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, located on level 1, West Lobby C of the Convention Center. Registration for the Career Fair is free to job seekers. Upload your CV/ resume on CancerCareers.org (https://www.cancercareers.org/profiles/sign_up) and search and apply for positions.

Annual Reception

All Annual Meeting registrants are invited to attend the Annual Reception on Sunday evening, April 16, from 8:30 p.m. to 11:30 p.m. in the Regency Ballroom of the Hyatt Regency Orlando. Complimentary light refreshments will be served, and a live band will provide music for dancing. Each registrant will receive a voucher for a complimentary beverage at the Annual Reception with their registration materials. On Sunday evening, shuttle buses will run extended hours from 8:30 p.m. to 11:30 p.m. At the conclusion of the reception, attendees must walk to the Convention Center to ride the shuttle to the AACR Hotels. Shuttle schedules will be posted in each hotel.

Associate Member Meet and Greet

Sunday, April 16 | 8:00 p.m.-9:30 p.m.
Orlando L, Hyatt Regency

Hosted by the AACR Associate Member Council (AMC), join fellow Associate members for an informal meet and greet and network with other early-career attendees; obtain information about programs, events, and initiatives specifically

for Associate members both at the conference and throughout the year; and meet with those representatives who are advocating to the AACR on behalf of the needs and concerns of graduate students, medical students and residents, and clinical and postdoctoral fellows. Take advantage of some exciting promotions that will be available only for those who stop by this informal pop-up space and connect with other early-career attendees throughout the reception!

NCI/NIH Meeting Room

The NCI/NIH Meeting Room, located in Room W314 B of the Convention Center, provides researchers with the opportunity to interact with NCI and NIH Program Staff. Program and Review staff from the NCI as well as Review staff from CSR attend the Annual Meeting and can be available at the Meeting Room for discussions and consultation throughout the conference.

Researchers interested in speaking with their Program Directors were encouraged to contact them ahead of the AACR Annual Meeting to arrange a time to meet at the NCI Meeting Room and discuss individual grant/review questions. New investigators are especially encouraged to meet with Program staff handling grant portfolios in their area of scientific interest.

The Meeting Room will be open from 9:00 a.m. to 5:00 p.m. Sunday through Tuesday and from 9:00 a.m. until 12:00 p.m. on Wednesday.

AACR Scientist↔Survivor Program®

Now celebrating its 25th Anniversary, the AACR Scientist↔Survivor Program® (SSP) is an education program for patient advocates. Led admirably since its inception by Anna D. Barker, PhD, FAACR, of the Lawrence J. Ellison Institute for Transformative Medicine, SSP is designed to build enduring partnerships among the leaders of the scientific, cancer survivor, and patient advocacy communities worldwide.

The unique AACR Annual Meeting SSP provides an opportunity for patient advocates and researchers to discuss the latest findings in cancer research, foster collaborative interdisciplinary partnerships, and promote progress in new research areas in the cancer field. Advocates benefit from special scientific lectures; stimulating small group discussions; and other opportunities to exchange information on key aspects of cancer research, survivorship, advocacy, and public policy.

To learn more about patient advocacy in cancer research, please visit the AACR Scientist↔Survivor Program® Poster Sessions on Monday, April 17, from 1:30 p.m. to 5:00 p.m. and Tuesday, April 18, from 9:00 a.m. to 12:30 p.m. in the Poster and Exhibit Hall. To learn more about the AACR Scientist↔Survivor Program®, please visit AACR.org/SSP2023 or email advocacy@aacr.org.

GENERAL INFORMATION *(cont'd)*

AACR Advocacy Partners' Pavilion

Visit the Advocacy Partners' Pavilion, supported by Pfizer, Inc., located in the front of Exhibit Hall (W Hall B-E1), to learn more about nonprofit patient advocacy organizations focused on supporting patients with cancer and meet patient advocates who are leading the fight against cancer.

AACR Foundation

Join us for the 2023 AACR Runners for Research 5K Run/Walk on Saturday, April 15. Each year, our signature event kicks-off the AACR Annual Meeting, bringing together a community of scientists, patient advocates, healthcare professionals, and others to support the AACR's mission to prevent and cure cancer. We hope that you will join us with your friends, family, and colleagues; it is a great way to engage in a healthy lifestyle activity while supporting cancer research.

This year's 5K Run/Walk will start and finish at the Orange County Convention Center South Concourse.

To register and learn more about this event, visit [AACR.org/5K](https://aacr.org/5K).

To learn about all the AACR Foundation activities and how you can get involved, stop by the AACR Foundation kiosk located in AACR Central in the Exhibit Hall.

ONLINE ITINERARY PLANNER AND AACR 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 [AACR.org/AACR2023](https://aacr.org/AACR2023).

Virtual Meeting Platform

Both in-person and virtual registration packages for the AACR Annual Meeting 2023 include access to live sessions, Q&A, networking, CME/MOC credits, and more. In-person registrants also receive complimentary access to the virtual meeting platform. Access to the Educational Sessions and Methods Workshops scheduled for Friday and Saturday, April 14 and 15, require the separate purchase of an AACR Educational Program Pass. Sessions that take place in hotels will not be included on the virtual meeting platform. Access to the virtual meeting will begin on April 14, 2023, and will run through July 19, 2023. For more information and to access the virtual meeting platform, visit [AACR.org/AACR2023](https://aacr.org/AACR2023).

Coat and Luggage Check

Coat, package, and luggage check service will be available in Level 1, West Lobby A on the following schedule:

Friday, April 14	12:00 p.m.-7:00 p.m.
Saturday, April 15	6:30 a.m.-7:00 p.m.
Sunday, April 16	6:30 a.m.-8:30 p.m.
Monday, April 17	6:30 a.m.-7:00 p.m.
Tuesday, April 18	6:30 a.m.-7:00 p.m.
Wednesday, April 19	6:30 a.m.-3:00 p.m.

SPECIAL ACCOMMODATIONS FOR ATTENDEES

The American Association for Cancer Research recognizes the importance of making its educational activities available to all interested participants of the professional medical community. This AACR educational activity is designed to accommodate all attendees and fully complies with the legal requirements of the Americans with Disabilities Act (ADA) and the rules and regulations thereof. Registrants in need of auxiliary learning aids or special requirements for hotel accommodations, transportation, or other facilities connected with this meeting should contact the AACR Office in Room W222 of the Convention Center.

Code of Conduct, Policies, and Procedures

The AACR Annual Meeting 2023 will bring together 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 2023, 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 Marshal has the authority to delay or terminate the conference.
- The AACR encourages responsible drinking for those drinking alcohol. Beer and wine will be offered at some official events throughout this program. Alcohol will not be served to anyone under the age of 21. Alcoholic beverages are allowed in specific areas and must not be taken out of these areas.

COVID POLICY

The health and safety of AACR Annual Meeting participants, as well as the patients and communities we serve, are among AACR's highest priorities. By attending the AACR Annual Meeting 2023, you agree to abide by the AACR Annual Meeting COVID-19 policy, which is posted on the AACR website. Please visit **[AACR.org/AACR2023](https://www.aacr.org/AACR2023)** for details.

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.

Emergency Response Procedures

There is a first aid office located in West Lobby C of the Orange County Convention Center.

If an emergency occurs, immediately call the Orange County Convention Center Security at 407-685-1119 (or 5-1119 from a house phone). They will contact the Orange County Police Department at the 9-1-1 Center via their direct line. Do not contact 9-1-1 yourself.

No Smoking Regulation

Smoking is prohibited in all areas of the 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 14 and 19, 2023. 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 the AACR Annual Meeting 2023 live activity for a maximum of 402.5 *AMA PRA Category 1 Credit(s)*™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

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

CLAIMING CME CREDIT

Credit Survey

All individuals requesting continuing medical education credits must complete a CME Request for Credit Survey by Thursday, June 1, 2023. The Request for Credit Survey will be accessible by logging into the AACR Annual Meeting 2023 Program Planner and via email. Registrants log on using their registration number and last name.

General instructions for claiming CME/CE credit

If you built a “My Itinerary” schedule, from “My Itinerary” click on “Add all eligible Sessions to Credit Cart”.

If you did not build a “My Itinerary” schedule, add the sessions you attended by browsing sessions by day, by session category, or by session. Click the “Add to Cart” icon to the right of each CME eligible session. (Note: non-CME sessions will not have this “Add to Cart” option.)

Print CME Certificate

Print your CME Certificate by clicking “CME Certificates” on the menu at right.



ABIM MOC STATEMENT

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 402.5 Medical Knowledge MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

To receive ABIM MOC, participants must complete all questions in the CME Request for Credit Survey and claim CME credit hours. Please then select “Request MOC Points Here” on the bottom right side of the screen. Once these steps are completed, AACR will submit your completion information via the ACCME's Program and Activity Reporting System for the purpose of granting MOC points.

STATEMENT OF EDUCATIONAL NEED, TARGET AUDIENCE, AND LEARNING OBJECTIVES

The fight against cancer is rapidly progressing with the accelerating pace of discoveries in the basic, translational, and clinical sciences. This is due in large part to the advent of new technologies, such as advanced live imaging techniques and liquid biopsies, and our increased understanding of the importance of harnessing the power of the immune system to develop new immunotherapies. However, understanding and combating the processes of cancer initiation, progression, and response to treatment require a convergence of various disciplines. The AACR Annual Meeting brings together cancer biologists, clinical oncologists, and population scientists with engineers, computational biologists, and physical scientists to develop quantitative approaches and ask new questions to develop better strategies for curing cancer. By bridging the gap between what physicians understand about cancer biology and the clinical applications, this meeting aids basic researchers, physicians, and clinician-scientists in obtaining, synthesizing, and integrating the most current molecular-based tests to aid in the diagnosis, treatment, and prevention of cancer. Further, facilitating the interface between physicians and scientists increases the contributions of laboratory research to drug development as well as patient care, transforms the design and conduct of clinical research protocols, and creates an avenue for the rapid translation of laboratory research findings from “bench-to-bedside” for the benefit of improving patient outcomes. This meeting also acts as a forum to discuss cancer disparities and help ensure that all patients benefit from emerging breakthroughs in research and cancer treatment.

Despite the tremendous progress in the field, cancer continues to be a global public health challenge, accounting for about 1,670 deaths per day around the world. In the United States (U.S.) alone, it is predicted that 609,360 people will die from some form of cancer in 2022, 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 common cancers in the U.S.—including lung, thyroid, bladder, ovarian, and colorectal cancer—incidence has been declining for more than a decade. However, incidence of other forms of cancer—including breast, renal, pancreatic, endometrial, liver, and melanoma—has been on the rise. Incidence, diagnosis, access to treatment, and survival rates are also impacted by the cancer disparities that exist in certain segments of the U.S. population, with older and underprivileged populations often witnessing higher incidences of cancer and mortality.

The AACR Annual Meeting historically brings together over 22,000 investigators from the basic, translational, and clinical disciplines and provides them with a venue to discuss their recent advances, test new hypotheses, and establish new collaborations. To provide the most advanced technologies and treatments, it is critical to bridge the gap between physicians who are answering fundamental questions about cancer biology, clinicians who are applying the latest diagnostics and treatment strategies to patient care and the basic, translational, population and computational scientists who are striving to recognize and eliminate cancer disparities. As the incidence of cancer continues to increase, the fields of cancer prevention, advanced detection, and early interception offer unprecedented opportunities to decrease the worldwide burden of cancer.

After participating in this CME activity, participants will be able to:

1. Assess the technological advances and tools, such as liquid biopsies and single-cell techniques, being used to accelerate progress in cancer research and improve early detection and early interception, with the ultimate goal of extending patients' lives and improving their quality of life.
2. Articulate how real-world evidence is informing precision cancer medicine and leading to improved patient outcomes.
3. Incorporate the latest research findings regarding therapies and treatment options, including immunotherapy and combination therapies, in a variety of cancer types to improve patient outcomes.
4. Evaluate the impact of tumor evolution in developing resistance to therapy and exploit tumor heterogeneity to design improved strategies for cancer prevention, interception, and treatment.
5. Identify factors that impact the diagnosis, treatment, and prevention of various forms of cancers in patients from diverse populations and contribute to reducing cancer disparities.
6. Develop collaborations among physicians, researchers, and clinician-scientists to advance approaches for cancer treatment and prevention and support survivors.

GENERAL INFORMATION *(cont'd)*

DISCLOSURE STATEMENT

It is the policy of the AACR that the information presented at AACR CME activities will be unbiased and based on scientific evidence. To help participants make judgments about the presence of bias, AACR will provide information that Scientific Program Committee members and speakers have disclosed about their financial relationships with ineligible companies whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products or services used by or on patients. All of the relevant financial relationships for these individuals have been mitigated.

ACKNOWLEDGMENT OF FINANCIAL OR OTHER SUPPORT

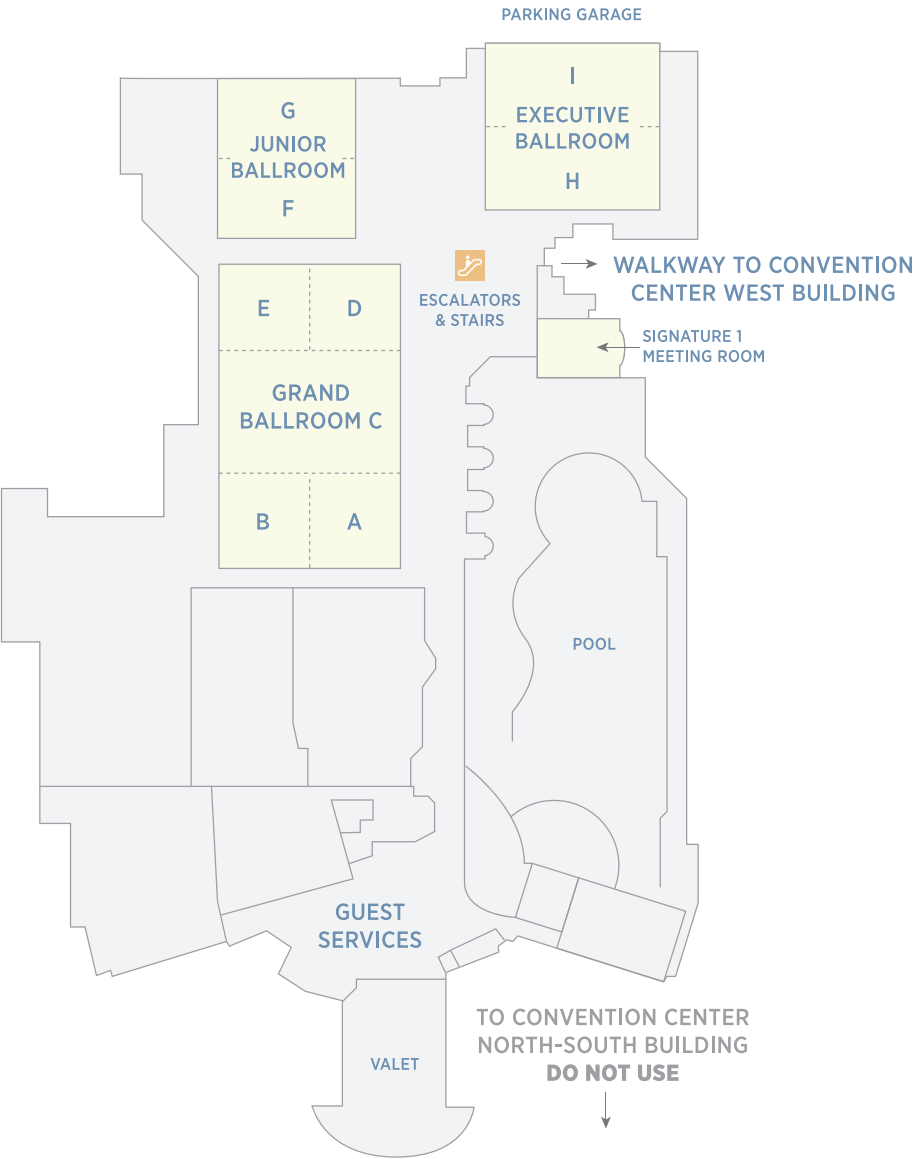
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QUESTIONS ABOUT CME?

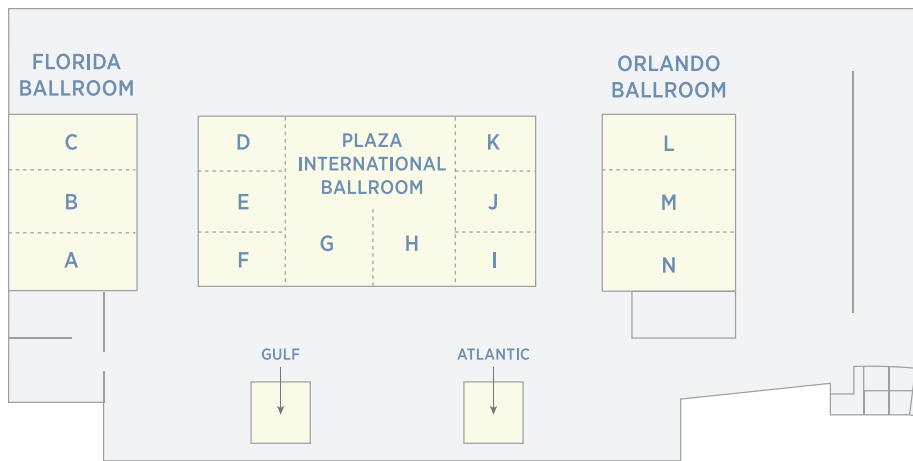
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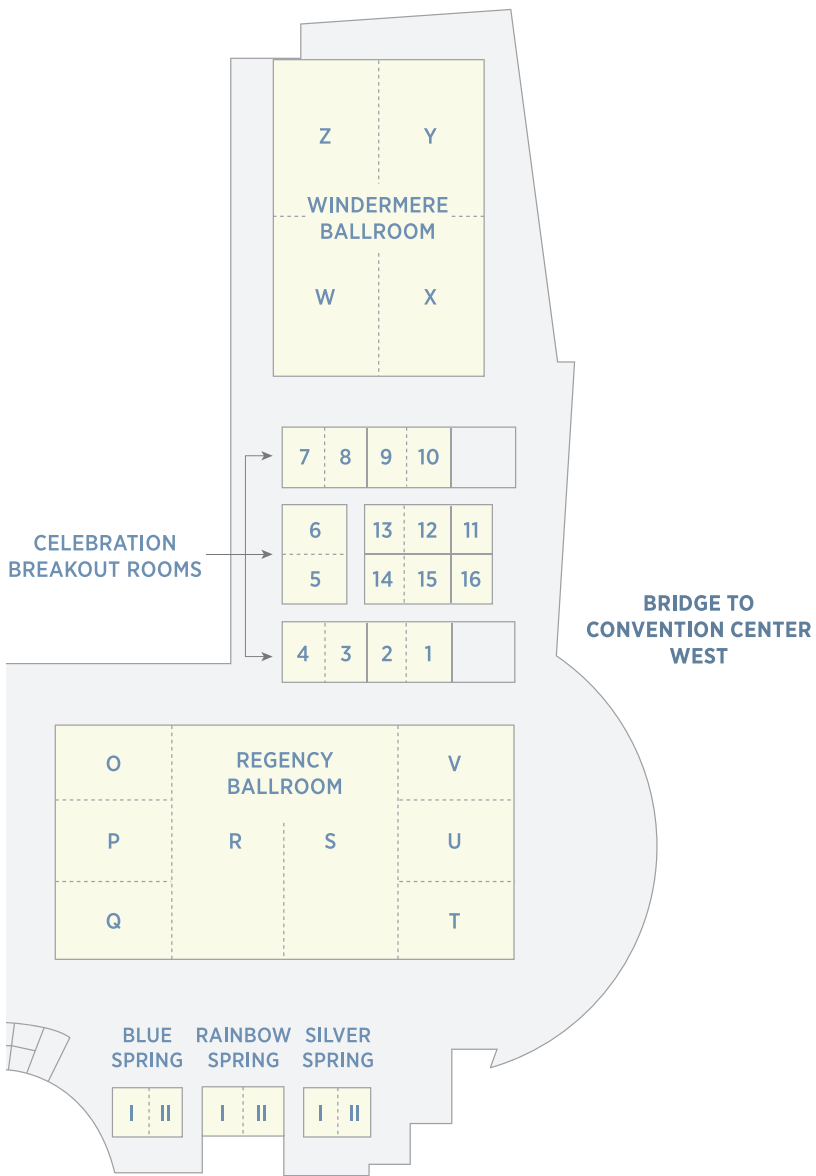
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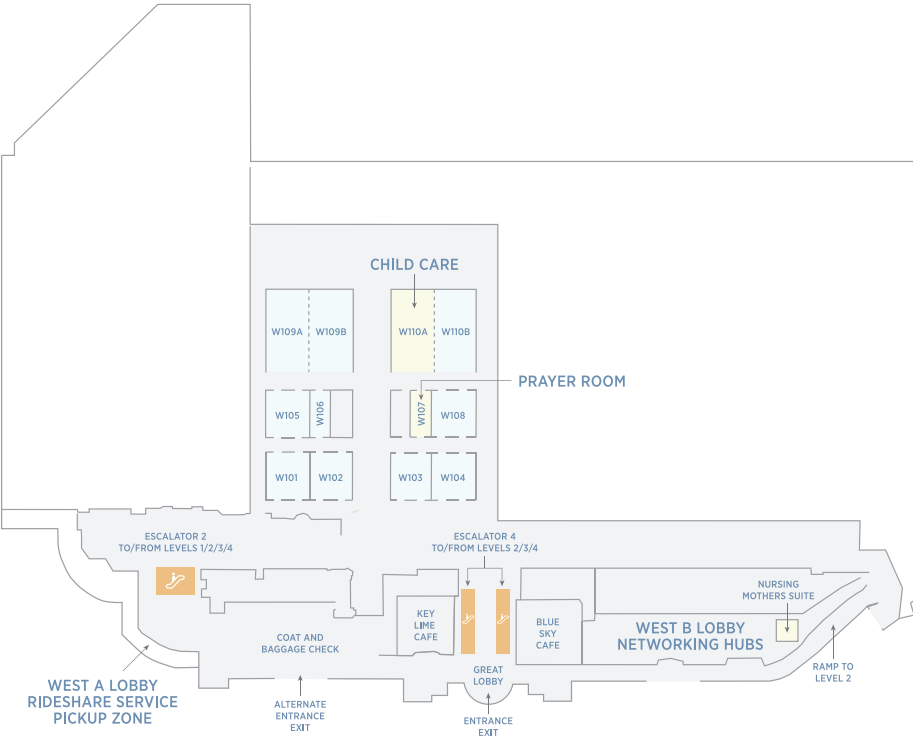


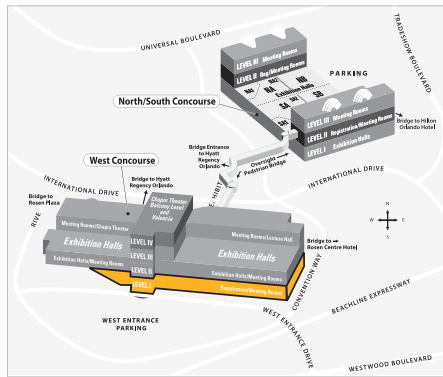
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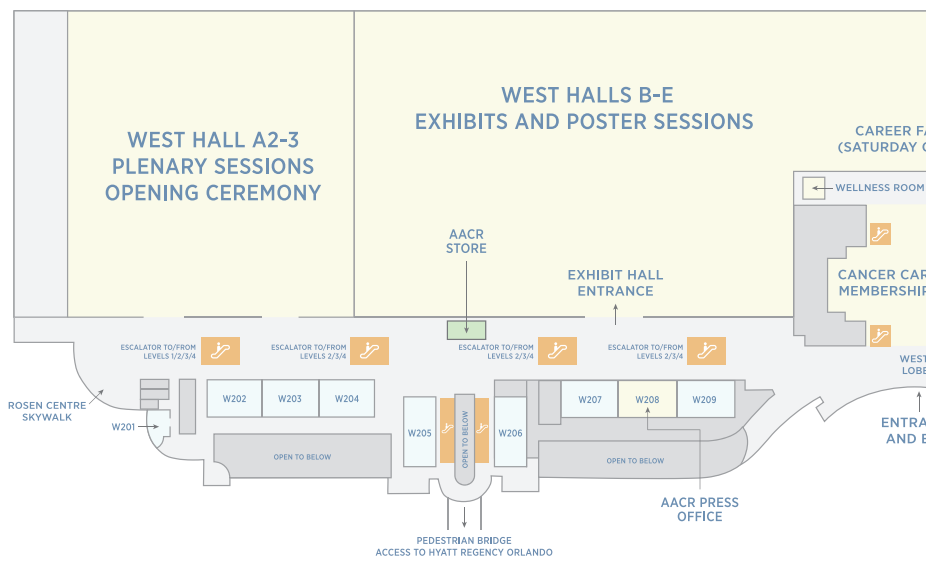


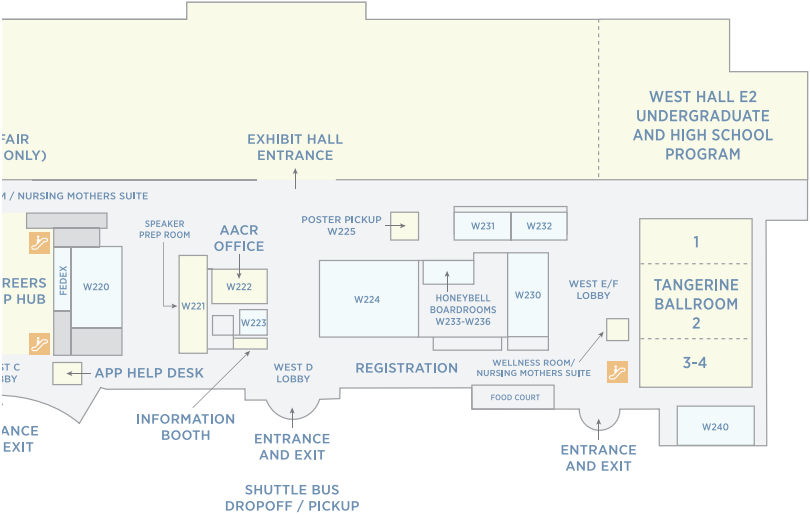
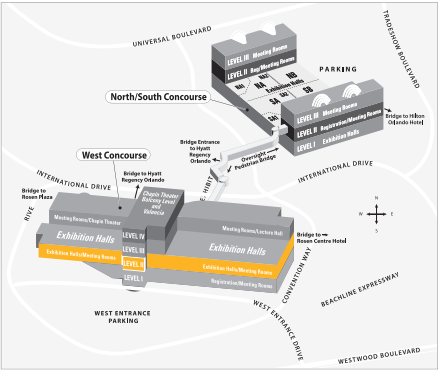
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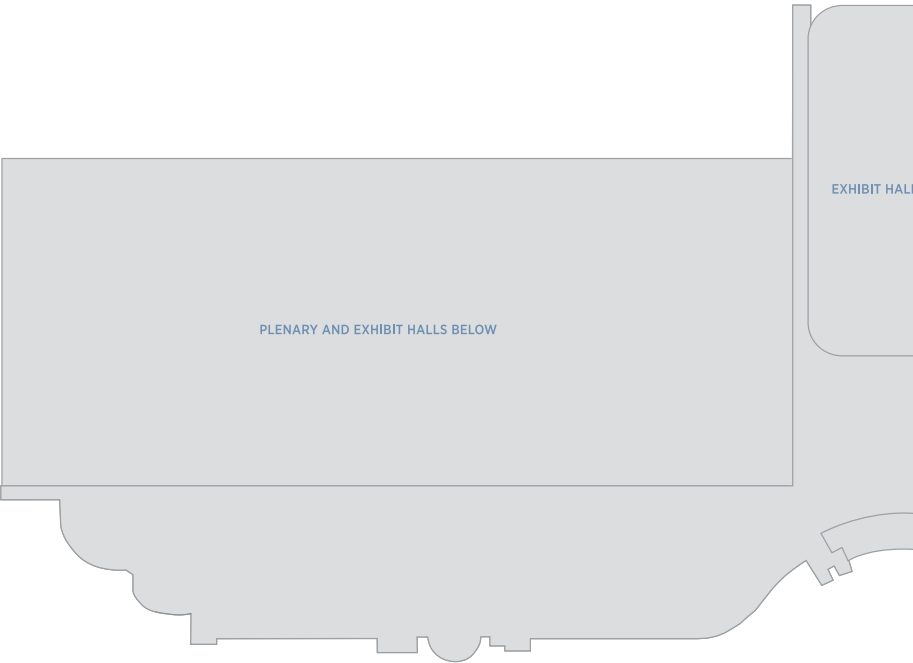
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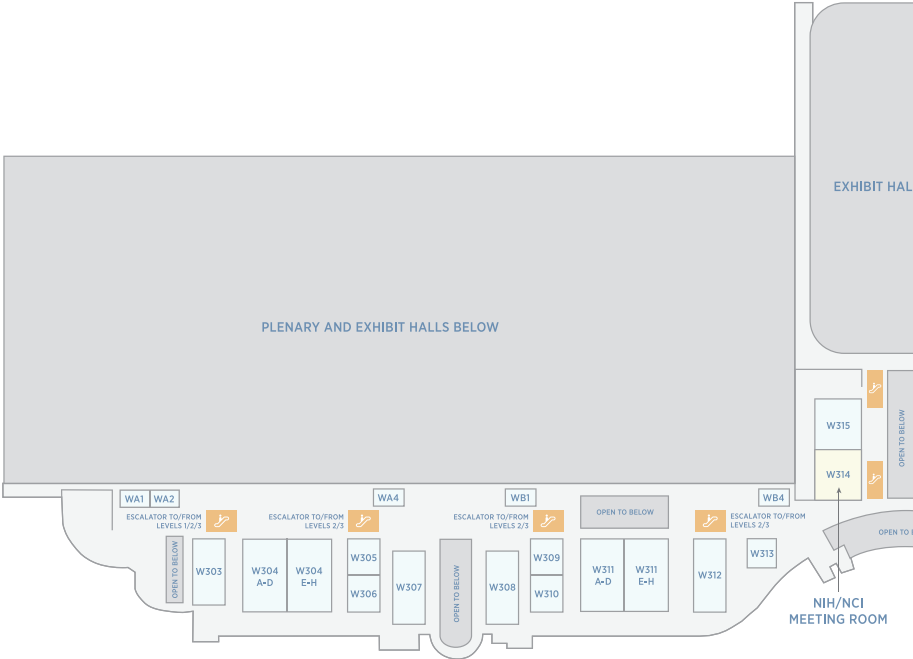


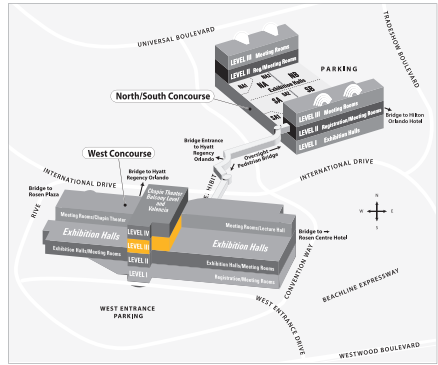
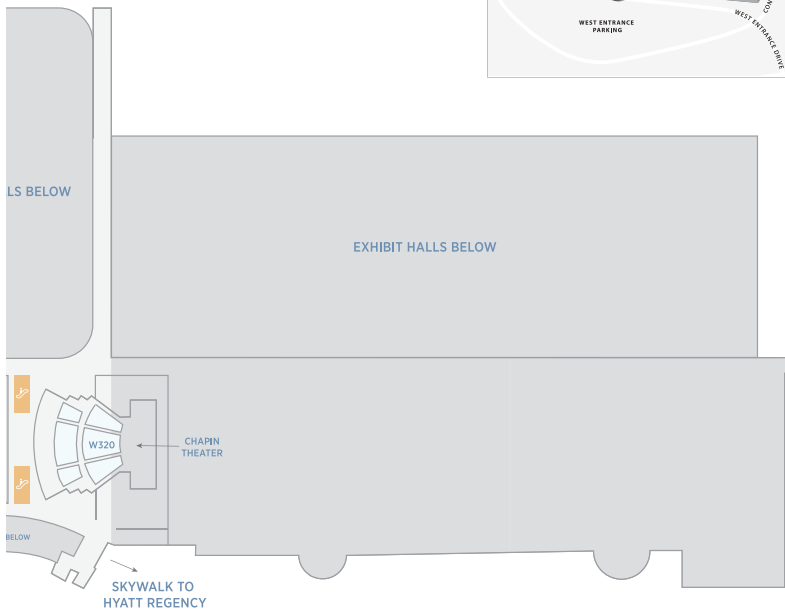
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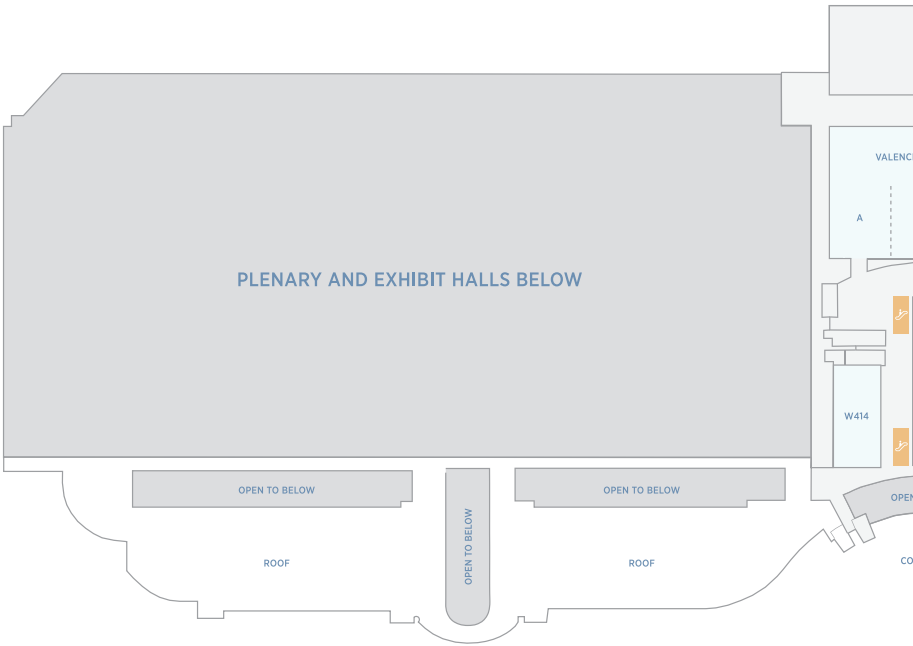


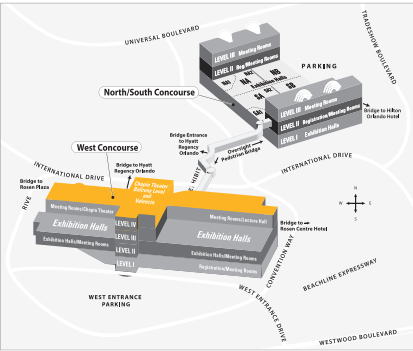
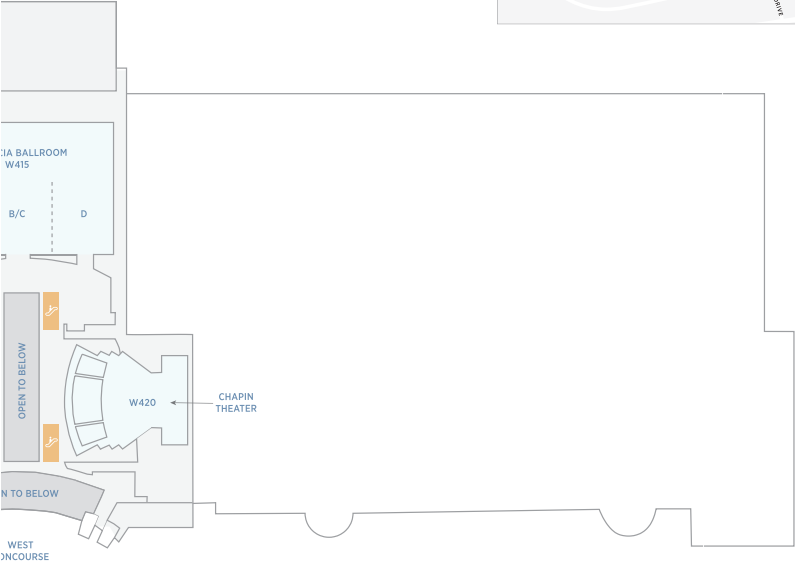
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FRIDAY, APRIL 14*

Professional Advancement Session • 12:00 p.m.–4:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

W Hall E2, Convention Center

GRANT WRITING WORKSHOP:

TIPS FOR SUCCESS FROM EXPERIENCED SCIENTISTS

Cochairs: Oliver Bogler, Bethesda, MD; Victoria L. Seewaldt, Duarte, CA; Sanya A. Springfield, Rockville, MD; Kristin G. Anderson, Seattle, WA

CME

Educational Sessions • 3:00 p.m.–4:30 p.m.

Room W311 E-H, Convention Center

FROM THE PATIENT VOICE TO THE FDA, EARLY PHASE CLINICAL TRIALS

Chair: Amylou Dueck, Scottsdale, AZ

- 3:00 p.m.** **What item banks and item libraries contribute to gathering patient experience in early phase trials.** David Cella, Evanston, IL
- 3:30 p.m.** **Incorporating patient reported outcomes in dose-finding clinical trials.** Shing M. Lee, New York, NY
- 4:00 p.m.** **Statistical analysis and visualization of patient-reported outcomes in early phase trials.** Amylou Dueck, Scottsdale, AZ

Room W312, Convention Center

HOW CAN WE REALIZE THE PROMISE OF NOVEL TECHNOLOGIES FOR EARLY CANCER DETECTION?

Chair: Timothy R. Rebbeck, Boston, MA

- 3:00 p.m.** **Developing realistic expectations for new cancer screening tests.** Ruth D. Etzioni, Seattle, WA
- 3:30 p.m.** **Can novel cancer early detection tests achieve equity in benefit for all?** Timothy R. Rebbeck, Boston, MA
- 4:00 p.m.** **Policy and guideline needs for effective cancer detection test impact.** Robert A. Smith, Atlanta, GA

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

Room W224, Convention Center

LOOKING FOR THE ACHILLES HEEL: PHENOTYPIC SCREENING AS AN ENGINE IN CANCER DRUG DISCOVERY

Chair: Mathew Garnett, Cambridge, United Kingdom

3:00 p.m. Phenotypic screening: Why, when, and how? Fabien Vincent, Groton, CT

3:30 p.m. High content phenotypic and pathway profiling identifies novel drug mechanisms-of-action tailored towards cancers of unmet need. Neil Carragher, Edinburgh, United Kingdom

4:00 p.m. Functional genomics as an enabling tool for phenotypic screening. Mathew Garnett, Cambridge, United Kingdom

Chapin Theater, Convention Center

SEX-BIASED ACTION OF TARGETED AGENTS

Chair: Joshua B. Rubin, St. Louis, MO

3:00 p.m. Translation of cancer sex differences into clinical practice. Joshua B. Rubin, St. Louis, MO

3:30 p.m. Impact of sex-based differences on the efficacy of immune checkpoint inhibitors: Critical analysis of data available, missing evidence, and misinterpretations. Fabio Conforti, Bergamo BG, Italy

4:00 p.m. Sex hormone signaling in melanoma. Todd W. Ridky, Philadelphia, PA

Room W331, Convention Center

THE BACTERIAL-CANCER AXIS: WHAT DOES IT MEAN?

Chair: Dominique S. Michaud, Boston, MA

3:00 p.m. Using population studies to address the role of bacterial dysbiosis and immunity in cancer risk. Dominique S. Michaud, Boston, MA

3:30 p.m. Microbiota mediated anti-cancer immunity. June L. Round, Salt Lake City, UT

4:00 p.m. Monitoring and modulating the microbiome in the setting of cancer therapy. Carrie R. Daniel-MacDougall, Houston, TX

FRIDAY, APRIL 14* | Educational Sessions (cont'd)

Tangerine Ballroom 1 (WF1), Convention Center

THE DARK SIDE OF OUR TREATMENTS: THERAPY-INDUCED COMORBIDITIES

Chair: Stefanie Geisler, St. Louis, MO

- 3:00 p.m.** **Clinical aspects of chemotherapy-induced neurotoxicity.** Nathan P. Staff, Rochester, MN
- 3:30 p.m.** **Chemotherapy-induced neuropathy: From bedside to bench and back.** Stefanie Geisler, St. Louis, MO
- 4:00 p.m.** **Tri-glial dysregulation of cancer therapy-related cognitive impairment.** Erin Gibson, Stanford, CA

Tangerine Ballroom 3-4 (WF3-4), Convention Center

TUMOR CELL ADAPTABILITY AND STRESS RESPONSE

Chair: Nadine Hempel, Pittsburgh, PA

- 3:00 p.m.** **Oxidative stress adaptations during metastasis: Focus on antioxidant enzyme function and regulation.** Nadine Hempel, Pittsburgh, PA
- 3:30 p.m.** **Sensitizing quasi-mesenchymal breast cancer cells to immune checkpoint blockade therapy by targeting hypoxia-adenosinergic signaling.** Anushka Dongre, Ithaca, NY
- 4:00 p.m.** **Tumor cell adaptation to nutrient stress.** Gina M. DeNicola, Tampa, FL

CME

Methods Workshops • 3:00 p.m.–4:30 p.m.

Tangerine Ballroom 2 (WF2), Convention Center

AI/ML APPROACHES IN TRANSLATIONAL RESEARCH

Chair: Carlos M. Caldas, Cambridge, United Kingdom

- 3:00 p.m.** **Building a mind for cancer.** Trey Ideker, La Jolla, CA
- 3:30 p.m.** **Adventures and misadventures in ML for molecular oncology: Selected case studies.** Ash A. Alizadeh, Stanford, CA
- 4:00 p.m.** **Machine learning and multi-omics to deliver precision cancer medicine 2.0.** Carlos M. Caldas, Cambridge, United Kingdom

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Room W311 A-D, Convention Center

ENGINEERED MODEL SYSTEMS FOR CANCER RESEARCH: A FOCUS ON FLUID FLOWS AND MATRIX ORGANIZATION

Chair: Stephanie Irene Fraley, La Jolla, CA

- 3:00 p.m.** **Collagen architecture drives collective invasion by impinging on iron regulation.** Stephanie Irene Fraley, La Jolla, CA
- 3:30 p.m.** **Engineering patient-informed cellular models of glioblastoma for therapeutic testing.** Jennifer Munson, Roanoke, VA
- 4:00 p.m.** **Engineered systems for disease modeling enable next-generation approaches in cancer immunotherapy.** Susan N. Thomas, Atlanta, GA

CME

Educational Sessions • 4:45 p.m.–6:15 p.m.

Room W224, Convention Center

CHEMISTRY TO THE CLINIC: PART 1 OF 3: THE NEXT GENERATION OF ANTIBODY DRUG CONJUGATES

Chair: Peter S. Dragovich, South San Francisco, CA

- 4:45 p.m.** **Recent progress in the optimization of antibody-drug conjugates as novel cancer therapies.** Peter S. Dragovich, South San Francisco, CA
- 5:15 p.m.** **Immunostimulatory payloads and novel technologies for antibody-drug conjugates.** Marc I. Damelin, Cambridge, MA
- 5:45 p.m.** **Considerations for non-oncology antibody-drug conjugates.** Adrian D. Hobson, Worcester, MA

Room W311 A-D, Convention Center

EMERGING VULNERABILITIES OF TUMOR-SPECIFIC CELL DEATH PATHWAYS

Chair: Daisuke Nakada, Houston, TX

- 4:45 p.m.** **Targeting ferroptosis vulnerability in cancer.** Boyi Gan, Houston, TX
- 5:15 p.m.** **Lighting a fire: Can activating pyroptosis and other innate immune pathways ignite tumor immunity?** Judy Lieberman, Boston, MA
- 5:45 p.m.** **Emerging metabolic vulnerability of cancer.** Daisuke Nakada, Houston, TX

FRIDAY, APRIL 14* | Educational Sessions (cont'd)

Tangerine Ballroom 1 (WF1), Convention Center

FOLLOW THE LEADER: TUMOR CELLS DRIVE INVASION AND METASTASIS THROUGH COLLABORATION

Chair: Huiping Liu, Chicago, IL

- 4:45 p.m. Solo or orchestra: Machine learning-assisted elucidation of circulating tumor stem cells in metastasis.** Huiping Liu, Chicago, IL
- 5:15 p.m. Studying tumor dormancy and metastasis in immune-competent settings.**
Cyrus M. Ghajar, Seattle, WA
- 5:45 p.m. Collaboration between tumor cells and the inflammatory environment of distant organ drives metastasis by impairing effector immune cell deployment.** Erwei Song, Guangzhou, China

Room W331, Convention Center

HOLD THAT SQUAT: EXERCISING TO BETTER CANCER OUTCOMES

Chair: Lindsay L. Peterson, St. Louis, MO

- 4:45 p.m. Metabolism to microenvironment: Mechanisms of exercise in cancer outcomes.** Lindsay L. Peterson, St. Louis, MO
- 5:15 p.m. Resistance exercise is medicine: Application to improve health and cancer outcomes.** Christina M. Dieli-Conwright, Boston, MA
- 5:45 p.m. Impact of aerobic exercise on cancer outcomes.** Kristin Campbell, Vancouver, BC, Canada

Tangerine Ballroom 2 (WF2), Convention Center

LIQUID BIOPSIES FOR DETECTION AND MONITORING: CHALLENGES AND OPPORTUNITIES

Chair: Muhammed Murtaza, Madison, WI

- 4:45 p.m. Early cancer detection by liquid biopsy.** Allen K.C. Chan, Hong Kong, Hong Kong
- 5:15 p.m. Liquid biopsies for molecular characterization and the study of clonal evolution in pediatric solid tumors.** Gudrun Schleiermacher, Paris, France
- 5:45 p.m. Liquid biopsies for minimal residual disease detection.** Muhammed Murtaza, Madison, WI

Room W311 E-H, Convention Center

MODELS FOR AGING AND CANCER

Chair: Lan G. Coffman, Pittsburgh, PA

- 4:45 p.m. Age-dependent evolution of cancers: Leveraging computational, mouse and human models.** James V. DeGregori, Aurora, CO

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- 5:15 p.m.** **Studying the impact of the aging stromal microenvironment on cancer initiation.** Lan G. Coffman, Pittsburgh, PA
- 5:45 p.m.** **Evaluation of aging mechanisms in the pre-malignant population.** Megan Weivoda, Rochester, MN

Room W312, Convention Center

NEXT GENERATION CANCER EPIDEMIOLOGIC COHORTS

Chair: Scarlett L. Gomez, San Francisco, CA

- 4:45 p.m.** **Next generation cancer epidemiologic cohorts: Gaps and opportunities.** Scarlett L. Gomez, San Francisco, CA
- 5:15 p.m.** **Survivorship and Access to care for Latinos to Understand and address Disparities (SALUD): Closing the gap in childhood cancer outcomes.** Maria M. Gramatges, Houston, TX
- 5:45 p.m.** **Cohorts for Environmental Exposures and Cancer Risk (CEECR): From cohort inception to future opportunities.** Shaneda W. Andersen, Madison, WI

Chapin Theater, Convention Center

T CELL THERAPIES IN IMMUNOLOGICALLY COLD MALIGNANCIES

Chair: H       Salmon, Paris, France

- 4:45 p.m.** **Specific cancer-associated fibroblasts to target to overcome T cell exclusion in solid tumors.** H       Salmon, Paris, France
- 5:15 p.m.** **Exploiting T cell receptors to access new categories of cancer immunotherapy targets.** Johanna Olweus, Oslo, Norway
- 5:45 p.m.** **Targeting cancer-associated fibroblasts to overcome immunotherapy resistance.** Gareth Thomas, Southampton, United Kingdom

Tangerine Ballroom 3-4 (WF3-4), Convention Center

THE EVOLVING METABOLOME OF CANCER

Chair: Gary Patti, St. Louis, MO

- 4:45 p.m.** **Cell-intrinsic and cell-extrinsic metabolic drivers of oncogenesis.** Gary Patti, St. Louis, MO
- 5:15 p.m.** **Targeting metabolic liabilities in cancer metastasis.** Alpaslan Tasdogan, Essen, Germany
- 5:45 p.m.** **Metabolic adaptations to the tumor microenvironment.** Nada Y. Kalaany, Boston, MA

SATURDAY, APRIL 15*

CME

Educational Sessions • 8:00 a.m.–9:30 a.m.

Tangerine Ballroom 3-4 (WF3-4), Convention Center

ANTIGEN PRESENTATION: THE MACROPHAGE-DENDRITIC CELL DEBATE

Chair: Brian Ruffell, Tampa, FL

- 8:00 a.m. Competing for attention: Myeloid and T cell spatial interactions.**
Brian Ruffell, Tampa, FL
- 8:30 a.m. Macrophages rule in cancer.** Judith A. Varner, La Jolla, CA
- 9:00 a.m. Dendritic cells and macrophages in the tumor: Dr. Jekyll and Mr. Hyde.**
Karolina Palucka, Farmington, CT

Tangerine Ballroom 2 (WF2), Convention Center

EPIGENETICS AND 3D GENOME IN CANCER INITIATION AND EVOLUTION

Chair: Sheng Li, West Hartford, CT

- 8:00 a.m. Detection and characterization of enhancer hijacking in cancer.** Feng Yue,
Chicago, IL
- 8:30 a.m. Epigenetic dysregulation in AML.** Yali Dou, Los Angeles, CA
- 9:00 a.m. Inferring cellular epigenome heterogeneity and evolution in cancer.**
Sheng Li, West Hartford, CT

Chapin Theater, Convention Center

EVOLUTION OF DRUG RESISTANCE

Chair: Sydney Shaffer, Philadelphia, PA

- 8:00 a.m. Cellular barcoding tracks heterogeneous clones through selective pressures and phenotypic transitions.** Amy Brock, Austin, TX
- 8:30 a.m. Cancer cell states and plasticity in drug-induced adaptation.**
Gustavo Starvaggi França, New York, NY
- 9:00 a.m. Tracking resistance evolution across multiple therapies.** Sydney Shaffer,
Philadelphia, PA

Room W331, Convention Center

EXTRACELLULAR VESICLES AND PARTICLES (EVPS) FROM THE SMALL TO THE LARGE: SCIENCE IN THE ABSENCE OF A NUCLEUS

Chair: David C. Lyden, New York, NY

- 8:00 a.m. Extracellular vesicles, particles, cancer, and immunity.** Edit Buzás,
Budapest, Hungary

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8:30 a.m. Extracellular vesicles and particles in cancer progression and metastasis.

Lucia R. Languino, Philadelphia, PA

9:00 a.m. Tumor-derived extracellular vesicles and particles promote liver dysregulation and drug metabolizing defects. David C. Lyden, New York, NY

Room W315, Convention Center

FOSTERING ENTREPRENEURSHIP I: COMMERCIALIZING INNOVATIVE IDEAS – WHERE TO START?

NOT ELIGIBLE FOR CME CREDIT

Moderator: Michael A. Caligiuri, Duarte, CA

Panelists: C. Casey Cunningham, Boston, MA

Elizabeth M. Jaffee, Baltimore, MD

Ferran Prat, Houston, TX

Antoni Ribas, Los Angeles, CA

Valencia D, Convention Center

MAKING BETTER PRECLINICAL MODELS OF CANCER

Chair: Cedric Blanpain, Bruxelles, Belgium

8:00 a.m. Deciphering the mechanisms of tumor initiation at the single cell resolution in living mice. Cedric Blanpain, Bruxelles, Belgium

8:30 a.m. Exploring tumor-host interactions and mechanisms of immunosuppression using small and large animal models of cancer. Dieter Saur, Munich, Germany

9:00 a.m. Patient-derived models of breast cancer for discovery science and precision medicine. Alana L. Welm, Salt Lake City, UT

Valencia A, Convention Center

NEW WAYS TO SKIN A CAT: EMERGING TECHNOLOGIES TO TARGET PROTEIN DEGRADATION

Chair: Danette L. Daniels, Cambridge, MA

8:00 a.m. Considerations for heterobifunctional degraders and translation to clinic. Danette L. Daniels, Cambridge, MA

8:30 a.m. Molecular glue degraders: Access to new mechanisms and disease targets. Christopher Nasveschuk, Stoneham, MA

9:00 a.m. Interrogating the druggable proteome with proximity-mediated pharmacology. Fleur Ferguson, LaJolla, CA

Tangerine Ballroom 1 (WF1), Convention Center
SENESCENCE IN THE DRIVER’S SEAT: MANIPULATING THE HOST IMMUNE RESPONSE TO CANCER

Chair: Makoto Nakanishi, Tokyo, Japan

- 8:00 a.m. Cellular senescence as a gain-of-function phenotype.** Masashi Narita, Cambridge, United Kingdom
- 8:30 a.m. Emerging role of stromal senescent cells in cancer progression.** Makoto Nakanishi, Tokyo, Japan
- 9:00 a.m. Immunogenicity, plasticity, immune escalation, and evasion in cellular senescence.** Clemens A. Schmitt, Berlin, Germany

Room W311 E-H, Convention Center
SENTINEL LYMPH NODES: WHAT DO THEY TELL US ABOUT PROGRESSION AND RESPONSE TO THERAPY

Chair: Timothy P. Padera, Boston, MA

- 8:00 a.m. The lymph node microenvironment induces cancer cell plasticity and evasion of anticancer immunity.** Timothy P. Padera, Boston, MA
- 8:30 a.m. The lymph-borne melanoma proteome conditions lymph nodes for metastasis.** Amanda W. Lund, New York, NY
- 9:00 a.m. Lymph node metastases provide a roadmap for the development of cold tumors.** Dennis Jones, Boston, MA

Valencia BC, Convention Center
SYSTEMIC MULTI-ORGAN COMMUNICATION DURING CANCER PROGRESSION

Chair: Florent Elefteriou, Houston, TX

- 8:01 a.m. Brain, seeds and soil: How do sympathetic nerves contribute to skeletal metastasis?** Florent Elefteriou, Houston, TX
- 8:30 a.m. Regulation of anti-tumoral immunity via brain-bone interactions.** Serkin Park, Seoul, Korea, Republic of
- 9:00 a.m. Local and distal control of tumor immunity.** Kyunghye Choi, St. Louis, MO

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Room W224, Convention Center

ACCESSIBLE COMPUTATIONAL PLATFORMS FOR LARGE-SCALE CANCER DATA ANALYSES

Chair: Jeremy Goecks, Portland, OR

- 8:00 a.m.** **The Galaxy software workbench for reproducible and collaborative cancer data analyses.** Jeremy Goecks, Portland, OR
- 8:30 a.m.** **Analytical tools for precision oncology: The cBioPortal for cancer genomics and OncoKB.** Nikolaus Schultz, New York, NY
- 9:00 a.m.** **UCSC Xena for cancer multiomics data visualization and analysis.** Jingchun Zhu, Santa Cruz, CA

Room W312, Convention Center

MICROFLUIDIC DEVICES TO TRACK LEADER CELL MOVEMENT

Chair: Priscilla Hwang, Richmond, VA

- 8:00 a.m.** **Leader cell biomechanics regulating collective migration.** Priscilla Hwang, Richmond, VA
- 8:30 a.m.** **Image-guided genomics to isolate phenotypically distinct cellular sub-populations.** Adam I. Marcus, Atlanta, GA
- 9:00 a.m.** **Extracellular matrix composition and stromal fibroblasts regulate breast cancer invasion.** Suzanne M. Ponik, Madison, WI

Room W414, Convention Center

PATHOLOGY FOR CANCER RESEARCHERS

Chair: Laura Delong Wood, Baltimore, MD

- 8:00 a.m.** **Applications of artificial intelligence in histopathology-based prognosis.** Toby Cornish, Aurora, CO
- 8:30 a.m.** **Lighting up the tumor microenvironment: Multiplexed spatial analysis for research and clinic.** Kurt Alex Schalper, New Haven, CT
- 9:00 a.m.** **Pathology of precancers in two and three dimensions.** Laura Delong Wood, Baltimore, MD

Room W311 A-D, Convention Center

UTILIZING AACR PROJECT GENIE REAL-WORLD CLINICO-GENOMIC DATA

Cochairs: Alexander S. Baras, Baltimore, MD; Tali Mazor, Boston, MA

8:00 a.m. Cochair Introduction. Tali Mazor, Boston, MA

8:05 a.m. Leveraging AACR Project GENIE to flag putative assay artifacts and calibrate estimates of exomic mutation burden. Alexander S. Baras, Baltimore, MD

8:25 a.m. Using GENIE data to aid in ancestry-driven recalibration of tumor mutational burden and disparate clinical outcomes in response to immune checkpoint inhibitors. Amin H. Nassar, New Haven, CT

8:45 a.m. Exploring the BPC CRC 2.0-public dataset using cBioPortal. Tali Mazor, Boston, MA

9:05 a.m. General Discussion. Alexander S. Baras, Baltimore, MD

Professional Advancement Session • 9:00 a.m.–4:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

W Hall E2, Convention Center

**18TH ANNUAL AACR UNDERGRADUATE STUDENT CAUCUS
AND POSTER COMPETITION**

Chair: Brian M. Rivers, Atlanta, GA

CME

Educational Sessions • 10:00 a.m.–11:30 a.m.

Room W224, Convention Center

**CHEMISTRY TO THE CLINIC: PART 2 OF 3: LEVERAGING INDUCED
PROXIMITY: BEYOND TARGETED PROTEIN DEGRADATION**

Chair: Lyn H. Jones, Boston, MA

10:00 a.m. Emerging opportunities for non-degrading molecular superglues.
Lyn H. Jones, Boston, MA

10:30 a.m. Sequence-based design of small molecule RNA degraders.
Matthew D. Disney, Juniper, FL

11:00 a.m. Mechanism of action of velcryn small molecules. Heidi Greulich, Cambridge, MA

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Tangerine Ballroom 2 (WF2), Convention Center

CHROMOSOMAL INSTABILITY IN CANCER EVOLUTION AND TREATMENT

Chair: Florian M. Markowetz, Cambridge, United Kingdom

- 10:00 a.m.** **The 17 deadly CINs: A pan-cancer compendium of chromosomal instability.**
Florian M. Markowetz, Cambridge, United Kingdom
- 10:30 a.m.** **Chromothripsis in cancer: Context of occurrence, mechanistic basis, and implications for patients.** Aurelie Ernst, Heidelberg, Germany
- 11:00 a.m.** **Evolutionary dynamics and mutational processes in genome instable tumors.** Christina Curtis, Stanford, CA

Room W315, Convention Center

FOSTERING ENTREPRENEURSHIP II: BIOTECH 101

NOT ELIGIBLE FOR CME CREDIT

Moderator: Alan Colowick, Waltham, MA

Panelist: Melissa McCracken, Boston, MA
Additional panelists to be announced.

Room W311 E-H, Convention Center

THE GUT MICROBIOTA AND COLORECTAL CANCER

Chair: Wendy Sarah Garrett, Boston, MA

- 10:00 a.m.** **The facts in the case of bacteria potentiating colorectal carcinogenesis, with a focus on fusobacteria.** Wendy Sarah Garrett, Boston, MA
- 10:30 a.m.** **Driver pathogens and microbe: Microbe community interactions in CRC.**
Julia Lynn Drewes, Baltimore, MD
- 11:00 a.m.** **Clinical translation of the gut microbiome for colorectal cancer prevention.**
Andrew T. Chan, Boston, MA

Valencia A, Convention Center

HOW DOES THE NICHE REGULATE DISSEMINATED TUMOR CELL DORMANCY AND METASTASIS?

Chair: Ana Luisa Correia, Lisbon, Portugal

- 10:01 a.m.** **Understanding site-specific immunity to maintain disseminated tumor cell dormancy.** Ana Luisa Correia, Lisbon, Portugal
- 10:30 a.m.** **Epigenetic control of dormancy.** Ana P. Da Silva Gomes, Tampa, FL
- 11:00 a.m.** **How aging promotes reactivation from metastatic melanoma dormancy.**
Mitchell Fane, Baltimore, MD

Room W312, Convention Center
INNOVATIONS IN METHODS FOR ADAPTING AND PERSONALIZING INTERVENTIONS FOR CANCER CONTROL

Chair: Inbal Nahum-Shani, Ann Arbor, MI

- 10:01 a.m. Introduction to adaptive interventions and just-in-time adaptive interventions.** Inbal Nahum-Shani, Ann Arbor, MI
- 10:30 a.m. Innovations in adaptive intervention development for cancer control: The QuitSMART Utah study.** David W. Wetter, Salt Lake City, UT
- 11:00 a.m. Innovations in JITAI development for cancer control: The Sense2stop study.** Susan A. Murphy, Cambridge, MA

Tangerine Ballroom 1 (WF1), Convention Center
IT'S MORE THAN THE ECM: PHYSICAL ONCOLOGY

Chair: Ovijit Chaudhuri, Stanford, CA

- 10:00 a.m. Changes in the extracellular matrix and their impact on cancer progression.** Ovijit Chaudhuri, Stanford, CA
- 10:20 a.m. Dynamic interplay between cellular and non-cellular tissue stroma, tissue tension and tumor progression.** Valerie M. Weaver, San Francisco, CA
- 10:40 a.m. Mechanical and structural regulation of T cell behavior in solid tumor microenvironments.** Paolo P. Provenzano, Minneapolis, MN
- 11:00 a.m. Panel Discussion**

Tangerine Ballroom 3-4 (WF3-4), Convention Center
RNA BIOGENESIS IN CANCER: WHAT DO WE KNOW?

Chair: Marisol Soengas, Madrid, Spain

- 10:00 a.m. dsRNA binding proteins modulating immune suppression in melanoma.** Marisol Soengas, Madrid, Spain
- 10:30 a.m. The roles of RNA splicing in cancer initiation and progression, and its modulation for cancer therapy.** Rotem Karni, Jerusalem, Israel
- 11:00 a.m. The CPEB family of RNA-binding proteins in the translational control of tumor-niche chronic stress response.** Raul Mendez, Barcelona, Spain

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Chapin Theater, Convention Center

TUMOR IMMUNOLOGY AND IMMUNOTHERAPY FOR NONIMMUNOLOGISTS: ENHANCING RESPONSIVENESS TO CANCER IMMUNOTHERAPY

Chair: Kunle Odunsi, Chicago, IL

- 10:00 a.m.** **The broad applicability of T cell therapies to treat cancer.** Catherine Bollard, Washington, DC
- 10:30 a.m.** **Tertiary lymphoid structures in cancer.** Jose R. Conejo-Garcia, Durham, NC
- 11:00 a.m.** **The role of tissue resident T cells and cancer immunotherapy.** Kunle Odunsi, Chicago, IL

Valencia BC, Convention Center

UNDERSTANDING NEUTROPHIL DYNAMICS IN CANCER: MOUSE TO HUMAN AND BACK AGAIN

Chair: Mikala Egeblad, Cold Spring Harbor, NY

- 10:00 a.m.** **A tumor-induced neutrophil subpopulation drives vascular occlusion, pleomorphic necrosis, and metastasis.** Mikala Egeblad, Cold Spring Harbor, NY
- 10:30 a.m.** **Microbiota licenses neutrophils to respond to chemotherapy.** Romina Goldszmid, Bethesda, MD
- 11:00 a.m.** **Immunotherapies trigger neutrophil activation to eliminate tumor antigen escape variants.** Taha Merghoub, New York, NY

CME

Methods Workshops • 10:00 a.m.–11:30 a.m.

Valencia D, Convention Center

CLINICAL TRIAL DESIGN IN A DIVERSE WORLD, PART 1: ALIGNING THE NEEDS OF A CLINICAL TRIAL WITH THE MOST APPROPRIATE DESIGN

Cochairs: Ezra E.W. Cohen, San Diego, CA; Wendy B. London, Boston, MA

- 10:00 a.m.** **Chair Introduction.** Wendy B. London, Boston, MA
- 10:05 a.m.** **Making phase I trials relevant: Aligning need with design.** Thomas M. Braun, Ann Arbor, MI
- 10:25 a.m.** **Trial designs for answering phase II questions.** Elizabeth Garrett-Mayer, Alexandria, VA
- 10:45 a.m.** **Clinical trials in the post-PD1 immunotherapy era.** Ezra E.W. Cohen, San Diego, CA
- 11:05 a.m.** **Panel Discussion**

Room W414, Convention Center
HTAN DATA IN THE WILD: ACCESSING AND ANALYZING SINGLE-CELL SEQUENCING AND HIGHLY MULTIPLEXED SPATIAL-PROTEOMICS USING THE HTAN DATA PORTAL AND NCI'S CLOUD RESOURCES

Chair: Vésteinn Thorsson, Seattle, WA

- 10:00 a.m. Accessing and visualizing Human Tumor Atlas Network (HTAN) data through the HTAN data portal and associated resources.** Vésteinn Thorsson, Seattle, WA
- 10:30 a.m. HTAN data in the NCI cancer research data commons.** Erika Kim, Bethesda, MD
- 11:00 a.m. Spatial proteomics analysis of highly multiplexed tissue imaging.** Allison L. Creason, Portland, OR

Career Development Forum • 11:45 a.m.-3:45 p.m.

NOT ELIGIBLE FOR CME CREDIT

**WOMEN AND POWER WORKSHOP:
ADVANCING AND SECURING YOUR CAREER IN SCIENCE**

- 11:00 a.m. Lunch**
- 11:45 a.m. Workshop**

CME Educational Sessions • 12:30 p.m.-2:00 p.m.

Room W331, Convention Center
**DISTILLING DATA FROM SINGLE CELL AND SPATIAL RNA-SEQ:
A NEW PERSPECTIVE, A NEW APPROACH**

Chair: Jeffrey H. Chuang, Farmington, CT

- 12:30 p.m. Developing approaches for single cell and spatial expression analysis in tumors.** Jeffrey H. Chuang, Farmington, CT
- 1:00 p.m. Single-cell RNA-Seq analysis of cancer therapy resistance.** Kai Tan, Philadelphia, PA
- 1:30 p.m. Delineating intra-tumor heterogeneity with spatial multi-omics.** Elana Judith Fertig, Baltimore, MD

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Valencia A, Convention Center

EXPLOITING THE DNA DAMAGE RESPONSE IN NOVEL THERAPY APPROACHES

Chair: Alan D. D'Andrea, Boston, MA

12:30 p.m. Overcoming PARP inhibitor resistance by targeting POLQ or USP1.

Alan D. D'Andrea, Boston, MA

1:00 p.m. The radiation-induced DNA damage response modulates cancer cell immunogenicity and response to immunotherapy. Sandra Demaria,

New York, NY

1:30 p.m. Exploiting the synthetic lethality interaction: A hit for new therapeutics.

Stephanie Lheureux, Toronto, ON, Canada

Room W315, Convention Center

FOSTERING ENTREPRENEURSHIP III: FINANCING OPTIONS

NOT ELIGIBLE FOR CME CREDIT

Moderator: Christiana Bardon, Boston, MA

Panelists: Tom Cirrito, Walnut, CA

Christina M. Coughlin, Monrovia, CA

Jeffrey A. Engelman, Cambridge, MA

Susan M. Galbraith, Cambridge, United Kingdom

William N. Hait, New Brunswick, NJ

Tangerine Ballroom 3-4 (WF3-4), Convention Center

MULTIPLEX, SPATIALLY RESOLVED IMAGING: READY FOR PRIMETIME?

Chair: Leeat Keren, Rehovot, Israel

12:30 p.m. Unravelling the tumor microenvironment in metastatic melanoma using multiplexed imaging. Leeat Keren, Rehovot, Israel

1:00 p.m. Introduction to MCMICRO, histoCAT and other tools tailored for spatial omics analysis. Denis Schapiro, Heidelberg, Germany

1:30 p.m. Is it spillover, a doublet, or a tissue slicing effect? Understanding the consequences of experimental and analytic choices on spatial omics data interpretation. Kieran Campbell, Toronto, ON, Canada

Tangerine Ballroom 2 (WF2), Convention Center

TARGETING THE TME

Chair: Edna Cukierman, Philadelphia, PA

12:30 p.m. Establishment and regulation of the pancreatic cancer microenvironment. Marina Pasca Di Magliano, Ann Arbor, MI

1:00 p.m. Epithelial and stromal complicity in pancreas cancer. Sunil R. Hingorani, Seattle, WA

1:30 p.m. The fibroblastic ECM as a functional unit. Edna Cukierman, Philadelphia, PA

Room W311 E-H, Convention Center
TERTIARY LYMPHOID STRUCTURES: WHAT THEY ARE AND HOW THEY INFLUENCE IMMUNOTHERAPY RESPONSES

Chair: Wolf Hervé Fridman, Paris, France

- 12:30 p.m.** **The definition of tertiary lymphoid structures: The knowns and the knowledge gap.** Tullia C. Bruno, Pittsburgh, PA
- 1:00 p.m.** **The effect of tertiary lymphoid structures on immunotherapy response.** Göran B. Jönsson, Lund, Sweden
- 1:30 p.m.** **The role of plasma cells and antibodies generated in TLS in immunotherapy responses.** Wolf Hervé Fridman, Paris, France

Chapin Theater, Convention Center
TUMOR ANTIGENS FOR CANCER IMMUNOTHERAPY

Chair: Sacha Gnjatich, New York, NY

- 12:30 p.m.** **What contributes to a good tumor antigen?** Sacha Gnjatich, New York, NY
- 1:00 p.m.** **Involvement of host immune integrity in the immunogenicity of tumor antigens.** Yoshihiro Ohue, New York, NY
- 1:30 p.m.** **Making way for tumor associated antigen targeted therapies in pancreatic cancer.** Ellen Puré, Philadelphia, PA

Tangerine Ballroom 1 (WF1), Convention Center
TUMOR-INFILTRATING B CELLS AND TERTIARY LYMPHOID STRUCTURES: MECHANISTIC INSIGHTS AND THERAPEUTIC OPPORTUNITIES

Chair: Brad Nelson, Victoria, BC, Canada

- 12:30 p.m.** **The multi-faceted roles of effector B cells in anti-tumor immunity.** Brad Nelson, Victoria, BC, Canada
- 1:00 p.m.** **Regulatory B cells in cancer.** Yuliya Pylayeva-Gupta, Chapel Hill, NC
- 1:30 p.m.** **Tertiary lymphoid structures: From structure and function towards the next generation of immunotherapy.** Marie-Caroline Dieu-Nosjean, Paris, France

Room W311 A-D, Convention Center
USING BIG DATA IN POPULATION SCIENCE

Chair: Nicola J. Camp, Salt Lake City, UT

- 12:30 p.m.** **The Utah population database: A unique resource for cancer research.** Nicola J. Camp, Salt Lake City, UT

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers

- 1:00 p.m.** **Harnessing real-world data in oncology: Insights and applications.** Tina Hernandez-Boussard, Stanford, CA
- 1:30 p.m.** **#DataMatter: Leveraging NCI datasets for cancer discovery and impact.** Jill S. Barnholtz-Sloan, Rockville, MD

Room W312, Convention Center

WASTE NOT, WANT NOT: DISCOVERY IN CANCER CACHEXIA

Chair: Teresa A. Zimmers, Portland, OR

- 12:30 p.m.** **Modeling cancer cachexia: From flies to rodents to organoids.**
Teresa A. Zimmers, Portland, OR
- 1:00 p.m.** **Bench to bedside and back in cancer cachexia.** Andrew R. Judge, Gainesville, FL
- 1:30 p.m.** **Precision approaches to clinical interrogation of cancer cachexia.** Mariam Jamal-Hanjani, London, United Kingdom

CME

Methods Workshops • 12:30 p.m.–2:00 p.m.

Valencia D, Convention Center

CLINICAL TRIAL DESIGN IN A DIVERSE WORLD, PART 2: CHALLENGES IN CLINICAL TRIAL ENROLLMENT

Cochairs: Ezra E.W. Cohen, San Diego, CA; Wendy B. London, Boston, MA

- 12:30 p.m.** **Introduction.** Ezra E.W. Cohen, San Diego, CA; Wendy B. London, Boston, MA
- 12:35 p.m.** **An overview of barriers to patient enrollment and diversity plans to improve enrollment in cancer clinical trials.** Katherine Panageas, New York, NY
- 12:50 p.m.** **Increasing clinical trial accrual of under-represented patients by shifting the power differential in the patient-provider relationship.** Maria Elena Martinez, San Diego, CA
- 1:05 p.m.** **Innovative strategies to address enrollment barriers and enhance participation among disparity populations.** Chanita Hughes-Halbert, Los Angeles, CA
- 1:20 p.m.** **How can technology and decentralized clinical trials processes modernize your next protocol?** Muhammad Shaalan Beg, Dallas, TX
- 1:35 p.m.** **Panel Discussion**

Room W414, Convention Center

EMERGING PLATFORMS FOR CANCER IMMUNOTHERAPY

Chair: Omid Veisheh, Houston, TX

- 12:30 p.m. Developing clinically translatable cytokine factories for cancer immunotherapy.** Omid Veisheh, Houston, TX
- 1:00 p.m. Tumor-selective delivery of immunostimulatory cytokine/antibody fusion proteins.** Jamie B. Spangler, Baltimore, MD
- 1:30 p.m. Delivery technologies for cancer immunotherapy.** Michael John Mitchell, Philadelphia, PA

Room W224, Convention Center

INTERCEPTING MOLECULAR RESIDUAL DISEASE IN THE CLINIC

Chair: Nicholas Turner, London, United Kingdom

- 12:30 p.m. Sensitive methods to detect ctDNA and MRD in patients with solid tumors.** Nitzan Rosenfeld, Cambridge, United Kingdom
- 1:00 p.m. MRD evaluation and interception in head and neck cancer.** Lillian L. Siu, Toronto, ON, Canada
- 1:30 p.m. MRD detection and clonal evolution in breast cancer.** Nicholas Turner, London, United Kingdom

Valencia BC, Convention Center

ORGANOIDS FOR DISEASE MODELING AND PRECISION MEDICINE

Chair: Vincenzo Corbo, Verona, Italy

- 12:30 p.m. Patient derived organoids to study genetic heterogeneity in pancreatic cancer.** Vincenzo Corbo, Verona, Italy
- 1:00 p.m. Patient-derived tumor organoids for precision medicine.** Alice Soragni, Los Angeles, CA
- 1:30 p.m. Single-cell signaling analysis of tumor microenvironment organoids.** Chris Tape, London, United Kingdom

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Room W311 A-D, Convention Center

A ROAD LESS TRAVELED: WHERE DO CAFs COME FROM AND WHERE DO THEY GO?

Chair: Ruth Scherz-Shouval, Rehovot, Israel

- 2:30 p.m. Accelerators, brakes, and instructors: The many roles of CAFs in the microenvironment.** Claus Jorgensen, Manchester, United Kingdom
- 3:00 p.m. Cancer-CAF coevolution.** Ruth Scherz-Shouval, Rehovot, Israel
- 3:30 p.m. Stromal plasticity shapes the metastatic microenvironment.** Neta Erez, Tel Aviv, Israel

Tangerine Ballroom 2 (WF2), Convention Center

AI IS HERE TO STAY: ITS IMPACT IN CANCER RESEARCH

Chair: Jakob Nikolas Kather, Dresden, Germany

- 2:30 p.m. Artificial Intelligence-based biomarkers in precision oncology.** Jakob Nickolas Kather, Dresden, Germany
- 3:00 p.m. Under the scope: The current landscape of AI for oncologic histopathology.** Jeanne Shen, Stanford, CA
- 3:30 p.m. Towards robust and equitable AI for cancer diagnostics and treatment.** Regina Barzilay, Cambridge, MA

Room W224, Convention Center

CHEMISTRY TO THE CLINIC: PART 3 OF 3: COVALENCY AND TARGET VALIDATION

Chair: Daniel K. Nomura, Berkeley, CA

- 2:30 p.m. Covalent small-molecule protein degraders.** Ekaterina V. Vinogradova, New York, NY
- 3:00 p.m. Recent advances in covalent therapeutics: Expanding the druggable proteome.** Patrick T. Gunning, Mississauga, ON, Canada
- 3:30 p.m. Reimagining druggability using chemoproteomic platforms.** Daniel K. Nomura, Berkeley, CA

Room W314 A, Convention Center
**FOSTERING ENTREPRENEURSHIP IV:
INTERACTING WITH REGULATORY AGENCIES**
NOT ELIGIBLE FOR CME CREDIT

Moderator: Jeff Summers, Silver Spring, MD
Panelists: Julian Adams, Boston, MA
Omer Butt, Duarte, CA
Elaine R. Mardis, Columbus, OH
David R. Parkinson, San Francisco, CA
Eric H. Rubin, North Wales, PA

Room W315, Convention Center
**PROJECT LIVIN' LABEL: FAM-TRASTUZUMAB DERUXTECAN-NXKI
IN BREAST CANCER — REDEFINING HER2 STATUS**

Moderator: Preeti Narayan, Silver Spring, MD
Panelists: Asma Dilawari, Silver Spring, MD
Deborah Geary, Miami, FL
Kasey Hoggatt, Coffeyville, KS
Neha Mangini, Salt Lake City, UT
Naoto Ueno, Honolulu, HI

Tangerine Ballroom 3-4 (WF3-4), Convention Center
**RECENT ADVANCES AND FUTURE DIRECTIONS IN IMMUNOTHERAPEUTIC
APPROACHES TO CHILDHOOD SOLID MALIGNANCIES**

Chair: John M. Maris, Philadelphia, PA
2:30 p.m. Leveraging developmental biology to identify optimal immunotherapeutic targets for childhood cancers. John M. Maris, Philadelphia, PA
3:00 p.m. Bispecific therapeutic that converts PD-L1 from a defense mechanism to a cancer cell vulnerability. James M. Olson, Seattle, WA
3:30 p.m. CAR T cells for children's cancers. Crystal L. Mackall, Stanford, CA

Tangerine Ballroom 1 (WF1), Convention Center
T RESIDENT MEMORY CELLS

Chair: Ananda W. Goldrath, La Jolla, CA
2:30 p.m. Resident memory T cell development in tissues and tumors. Laura Mackay, Victoria, Australia
3:00 p.m. Lessons from studying T cells in human tumors. Pandurangan Vijayanand, La Jolla, CA

- 3:30 p.m.** **Leveraging transcriptional programming tissue resident memory T cells to enhance anti-tumor immunity.** Ananda W. Goldrath, La Jolla, CA

Room W331, Convention Center

TUMOR HETEROGENEITY: RAPID AUTOPSY TO LONGITUDINAL BIOPSIES: WHAT CAN WE LEARN?

Chair: Charles Swanton, London, United Kingdom

- 2:30 p.m.** **Chair Introduction.** Charles Swanton, London, United Kingdom
- 2:32 p.m.** **Lung cancer evolution during immune predation: Insights from TRACERx and the PEACE Autopsy Program.** Charles Swanton, London, United Kingdom
- 2:54 p.m.** **Insights and resources from longitudinal sampling and rapid autopsy of pancreatic cancer patients.** Michael A. Hollingsworth, Omaha, NE
- 3:16 p.m.** **Intra and inter-tumor heterogeneity across cancer metastases: A reality check for targeted therapeutics and the utility of non-invasive biomarkers.** Peter S. Nelson, Seattle, WA
- 3:38 p.m.** **Title to be announced.** Jody E. Hooper, Stanford, CA

Room W312, Convention Center

UNDERSTANDING THE DISEASE BIOLOGY OF ALL: INSIGHTS FROM GENOMIC AND TRANSLATIONAL STUDIES

Chair: Caner Saygin, Chicago, IL

- 2:30 p.m.** **B-cell acute lymphoblastic leukemia genomics: Biological and clinical implications.** Ilaria Iacobucci, Memphis, TN
- 3:00 p.m.** **Novel transcriptional regulation and therapeutic targets in T cell acute lymphoblastic leukemia.** Daniel Herranz, New Brunswick, NJ
- 3:30 p.m.** **New insights into the pathogenesis of ALL in older adults.** Caner Saygin, Chicago, IL

Valencia BC, Convention Center

YIN AND YANG OF INFLAMMASOMES IN CANCER

Chair: Gabriel Mbalaviele, St. Louis, MO

- 2:30 p.m.** **Pyroptosis: A programmed form of cell death.** Gabriel Mbalaviele, St. Louis, MO
- 3:00 p.m.** **Cancer-associated pyroptosis: A new license to kill tumors.** Zhibin Zhang, Houston, TX
- 3:30 p.m.** **Activation of antitumor immunity by bacteria-derived signals: Pyroptosis and beyond.** Feng Shao, Beijing, China

CME **Methods Workshops • 2:30 p.m.–4:00 p.m.**

Room W311 E-H, Convention Center
**ADVANCING OUR UNDERSTANDING OF CANCER BURDEN
THROUGH GEOSPATIAL DATA**

Chair: Trang VoPham, Seattle, WA

- 2:30 p.m.** **Chair Introduction.** Trang VoPham, Seattle, WA
- 2:35 p.m.** **A geospatial guide for integrating location into cancer population sciences research.** Trang VoPham, Seattle, WA
- 3:05 p.m.** **Leveraging geospatial data and methods for studies of environment and cancer.** Rena R. Jones, Bethesda, MD
- 3:35 p.m.** **The role of outdoor air pollutant mixtures in breast cancer risk: An application of geospatial data in a prospective cohort.** Alexandra J. White, Research Triangle Park, NC
- 4:05 p.m.** **Panel Discussion**

Valencia D, Convention Center
**CLINICAL TRIAL DESIGN IN A DIVERSE WORLD, PART 3:
BIOMARKERS IN CLINICAL TRIALS**

Cochairs: Ezra E.W. Cohen, San Diego, CA; Wendy B. London, Boston, MA

- 2:00 p.m.** **Introduction.** Ezra E.W. Cohen, San Diego, CA
- 2:35 p.m.** **Standardization, prioritization, and optimal use of advanced molecular studies in clinical cancer research.** Kurt Alex Schalper, Branford, CT
- 2:55 p.m.** **Incorporation of proof-of-mechanism pharmacodynamic biomarkers and predictive biomarkers of response in early phase clinical trials.** Timothy A. Yap, Houston, TX
- 3:15 p.m.** **Statistical and practical guidance for biomarker studies.** Wendy B. London, Boston, MA
- 3:35 p.m.** **Panel Discussion**

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Valencia A, Convention Center

NEW METHODS IN SPATIAL IMAGING

Chair: Peter K. Sorger, Winchester, MA

- 2:30 p.m.** **Applying spatial functional genomics to identify drivers of the tumor microenvironment.** Brian Brown, New York City, NY
- 3:00 p.m.** **The molecular architecture of immunoediting and immunosuppression in solid cancers.** Peter K. Sorger, Winchester, MA
- 3:30 p.m.** **Investigating metabolites in the tumor microenvironment.** Marcia Haigis, Boston, MA

Chapin Theater, Convention Center

THE SPATIAL REVOLUTION: APPLYING SINGLE-CELL SPATIAL TECHNOLOGIES TO CANCER RESEARCH

Chair: Martin Guillems, Ghent, Belgium

- 2:30 p.m.** **Developing spatial single-cell pipelines in cancer.** Martin Guillems, Ghent, Belgium
- 3:00 p.m.** **Exploring the tumor microenvironment from the point of view of cell-cell communication at the single-cell level.** Merav Cohen, Tel Aviv, Israel
- 3:30 p.m.** **Single-cell spatial transcriptomic analyses of tumor immune responses during checkpoint immunotherapy.** Diether Lambrechts, Leuven, Belgium

CME

Plenary Session • 4:15 p.m.–6:15 p.m.

W Hall A2-3, Convention Center

BEATING KRAS: A 30-YEAR OVERNIGHT SENSATION

Chair: Dafna Bar-Sagi, New York, NY

- 4:15 p.m.** **Introduction.** Dafna Bar-Sagi, New York, NY
- 4:19 p.m.** **The race to kill Ras.** Frank McCormick, San Francisco, CA
- 4:46 p.m.** **Disruption of immune homeostasis circuits in mutant Ras tumors: Who is the culprit?** Dafna Bar-Sagi, New York, NY
- 5:13 p.m.** **Progress in the treatment of KRAS mutant cancers.** Pasi A. Jänne, Boston, MA
- 5:40 p.m.** **KRAS is personal: Just ask the immune system.** Beatriz M. Carreno, Philadelphia, PA
- 6:07 p.m.** **Wrap-up and opportunities for the future.** Dafna Bar-Sagi, New York, NY

SUNDAY, APRIL 16*

Opening Ceremony • 8:00 a.m.–9:30 a.m.

NOT ELIGIBLE FOR CME CREDIT

W Hall A2-3, Convention Center

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

Highlights of this year's Opening Ceremony include:

- Remarks from AACR CEO Margaret Foti and AACR President Lisa M. Coussens
- AACR Award for Lifetime Achievement in Cancer Research
- AACR Margaret Foti Award for Leadership and Extraordinary Achievements in Cancer Research
- AACR Team Science Award
- AACR June L. Biedler Prizes for Cancer Journalism
- Remarks from NCI Director Monica M. Bertagnolli
- Recognition of the 25th Anniversary of the AACR Scientist↔Survivor Program®
- AACR Distinguished Public Service Awards

SUNDAY

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

CME

Opening Plenary Session • 9:30 a.m.–11:30 a.m.

W Hall A2-3, Convention Center

OPENING PLENARY SESSION:

ADVANCING THE FRONTIERS OF CANCER SCIENCE AND MEDICINE

Chair: Robert H. Vonderheide, Philadelphia, PA

9:30 a.m. Introduction. Robert H. Vonderheide, Philadelphia, PA

9:35 a.m. Translating knowledge from panels to practice to population health.
Deborah Schrag, New York, NY

9:57 a.m. Learning tumor immunology from immunotherapy success and failures.
David G. Denardo, St. Louis, MO

10:19 a.m. Cancer cachexia: Out of intense complexities, intense simplicities emerge.
Teresa A. Zimmers, Portland, OR

10:41 a.m. Malignancies in people with HIV: Successes and challenges at the intersection of virology, immunology, and oncology. Robert Yarchoan, Bethesda, MD

11:03 a.m. To the moon and back: Centering equity at the frontiers of cancer care.
Tomi Akinyemiju, Durham, NC

11:25 a.m. Wrap-up and opportunities for the future. Robert H. Vonderheide, Philadelphia, PA

SUNDAY

NCI-NIH-Sponsored Session • 11:45 p.m.–12:45 p.m.

NOT ELIGIBLE FOR CME CREDIT

Room W314 A, Convention Center

NCI FUNDING OPPORTUNITIES FOR DIVERSITY TRAINING AND DISPARITIES RESEARCH IN CANCER TO PROMOTE HEALTH EQUITY

Moderator: Sanya A. Springfield, Rockville, MD

Presenters: Behrouz Davani, Bethesda, MD
LeeAnn O. Bailey, Bethesda, MD
Tiffany A. Wallace, Rockville, MD

CME

Awards and Lectures • 12:00 p.m.–12:45 p.m.

Room W414, Convention Center

PEZCOLLER FOUNDATION-AACR INTERNATIONAL AWARD FOR EXTRAORDINARY ACHIEVEMENT IN CANCER RESEARCH

Chair: Anton J.M. Berns, Amsterdam, Netherlands

12:05 p.m. Funder Remarks. Enzo Galligioni, Trento, Italy

12:10 p.m. Award Lecture. Tak W. Mak, Toronto, ON, Canada

CME Clinical Trials Plenary Session • 12:45 p.m.–3:15 p.m.

Chapin Theater, Convention Center
HARNESSING THE IMMUNE SYSTEM IN THE CLINIC

Cochairs: Shivaani Kummar, Portland, OR; Timothy Yap, Houston, TX

Introduction

- 12:45 p.m. CT001 A personalized cancer vaccine, mRNA-4157, combined with pembrolizumab versus pembrolizumab in patients with resected high-risk melanoma: Efficacy and safety results from the randomized, open-label Phase 2 mRNA-4157-P201/Keynote-942 trial. Jeffrey S. Weber, New York, NY
- 1:00 p.m. Discussant. Margaret Callahan, New York, NY
- 1:10 p.m. Discussion
- 1:15 p.m. CT002 KEYMAKER-U02 substudy 02C: Neoadjuvant pembrolizumab (pembro) + vibostolimab (vibo) or gebasaxturev (geba) or pembro alone followed by adjuvant pembro for stage IIIB-D melanoma. Reinhard Dummer, Zurich, Switzerland
- 1:30 p.m. Discussant. Ryan J. Sullivan, Boston, MA
- 1:40 p.m. Discussion
- 1:45 p.m. CT003 IMbrave050: Phase 3 study of adjuvant atezolizumab + bevacizumab versus active surveillance in patients with hepatocellular carcinoma (HCC) at high risk of disease recurrence following resection or ablation. Ahmed O. Kaseb, Houston, TX
- 2:00 p.m. Discussant. Stephen Lam Chan, Shatin, Hong Kong
- 2:10 p.m. Discussion
- 2:15 p.m. CT004 Intratumoral (IT) MEDI1191 + durvalumab (D): Update on the first-in-human study in advanced solid tumors. Eduardo Castañón, Pamplona, Spain
- 2:30 p.m. Discussant. Tara Mitchell, Philadelphia, PA
- 2:40 p.m. Discussion
- 2:45 p.m. CT005 AEGEAN: A phase 3 trial of neoadjuvant durvalumab + chemotherapy followed by adjuvant durvalumab in patients with resectable NSCLC. John V. Heymach, Houston, TX
- 3:00 p.m. Discussant. Roy S. Herbst, New Haven, CT
- 3:10 p.m. Discussion

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NCI-NIH-Sponsored Session • 1:00 p.m.–2:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

Room W314 A, Convention Center
NIH FINAL POLICY FOR DATA MANAGEMENT AND SHARING EXPLAINED

Moderator: Emily S. Boja, Bethesda, MD
Presenters: Heather Basehore, Bethesda, MD
 Brandon Wright, Bethesda, MD
 Nathan Boyd, Bethesda, MD

CME Major Symposium • 1:00 p.m.–2:15 p.m.

Room W330, Convention Center
Science Policy Session
PRESIDENT BIDEN’S CANCER MOONSHOT REIGNITED

Moderator: Cheryl L. Willman, Rochester, MN
1:15 p.m. Nancy G. Brinker, Palm Beach, FL
1:25 p.m. Danielle Carnival, Washington, DC
1:35 p.m. Phyllis Pettit Nassi, Salt Lake City, UT
1:45 p.m. Ricki Fairley, Annapolis, MD
1:55 p.m. **Panel Discussion**

**CME Advances in Diagnostics and Therapeutics
1:00 p.m.–2:30 p.m.**

Room W307, Convention Center
FLASH RADIOTHERAPY: FROM ANIMAL MODELS TO THE CLINIC

Chair: Constantinos Koumenis, Philadelphia, PA
1:00 p.m. **Chair Introduction.** Constantinos Koumenis, Philadelphia, PA
1:05 p.m. **Preclinical studies with proton FLASH radiation in mouse models and canine patients.** Constantinos Koumenis, Philadelphia, PA
1:30 p.m. **Abdominal FLASH irradiation: Molecular mechanisms and therapeutic potential.** Erinn Rankin, Stanford, CA
1:55 p.m. **Flash radiotherapy: Linking dosimetry, radiochemistry, and radiobiology.** Brian W. Pogue, Madison, WI

Room W311 A-D, Convention Center

INTRAOPERATIVE MOLECULAR IMAGING: NEW CLINICAL INSIGHTS

Chair: Eben L. Rosenthal, Nashville, TN

1:00 p.m. Chair Introduction. Eben L. Rosenthal, Nashville, TN

1:05 p.m. Practical implications of fluorescent guided surgery in primary tumor and regional metastasis. Eben L. Rosenthal, Nashville, TN

1:30 p.m. Use of fluorescent guided surgery and theranostic applications in neurosurgery. Constantinos G. Hadjipanayis, New York, NY

1:55 p.m. Intraoperative molecular imaging of lung cancer: The road to FDA approval. Sunil Singhal, Philadelphia, PA

Valencia A, Convention Center

THE BIOLOGY OF EARLY CANCERS, PRECISION PREVENTION AND EARLY CANCER DETECTION

Chair: Caroline Dive, Manchester, United Kingdom

1:00 p.m. Chair Introduction. Caroline Dive, Manchester, United Kingdom

1:05 p.m. The genomic landscape of human precancer. Ludmil B. Alexandrov, La Jolla, CA

1:30 p.m. Models and mechanisms to aid precision prevention in colorectal cancer. Philip Dunne, Belfast, Ireland

1:55 p.m. Development of a multimodal liquid biopsy to augment low dose-CT screening for lung cancer early detection. Caroline Dive, Manchester, United Kingdom

CME

Advances in Organ Site Research • 1:00 p.m.–2:30 p.m.

Room W331, Convention Center

COLORECTAL CANCER INITIATION, PROGRESSION, AND THERAPEUTIC RESISTANCE

Chair: Jacco Van Rheenen, Amsterdam, Netherlands

1:00 p.m. Chair Introduction. Jacco Van Rheenen, Amsterdam, Netherlands

1:05 p.m. Features and susceptibility to environmentally induced colorectal carcinogenesis. Marios Giannakis, Boston, MA

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- 1:33 p.m.** **Intravital imaging of the fate of mutant intestinal cells reveals cellular mechanisms that minimize mutation accumulation.** Jacco Van Rheenen, Amsterdam, Netherlands
- 2:01 p.m.** **Metastatic recurrence in colorectal cancer arises from residual EMP1+ cells.** Eduard Batlle Gomez, Barcelona, Spain

CME

Advances in Population Sciences • 1:00 p.m.–2:30 p.m.

Room W311 E-H, Convention Center

IMMUNOLOGY, IMMUNOGENICITY, AND EFFICACY OF COVID-19 VACCINATION IN PATIENTS WITH CANCER

Chair: Sjoukje Oosting, Ruinerwold, Netherlands

- 1:00 p.m.** **Chair Introduction.** Sjoukje Oosting, Ruinerwold, Netherlands
- 1:05 p.m.** **Immune memory to SARS-CoV-2 and COVID-19 vaccination.** Shane Crotty, La Jolla, CA
- 1:30 p.m.** **Immunogenicity and safety of COVID-19 vaccination during cancer treatment.** Sjoukje Oosting, Ruinerwold, Netherlands
- 1:55 p.m.** **Real-world evidence for risk and outcome of breakthrough COVID-19 infections in vaccinated patients with cancer.** Jing Su, Indianapolis, IN

CME

Advances in the Science of Cancer Disparities 1:00 p.m.–2:30 p.m.

Room W304 A-D, Convention Center

DISPARITIES AND CANCER OUTCOMES

Chair: Lucile L. Adams-Campbell, Washington, DC

- 1:00 p.m.** **Chair Introduction.** Lucile L. Adams-Campbell, Washington, DC
- 1:05 p.m.** **Exercise and allostatic load in Black women at increased risk for breast cancer.** Lucile L. Adams-Campbell, Washington, DC
- 1:30 p.m.** **Measures of pre-diagnostic allostatic load and breast cancer outcomes in Black women.** Adana A.M. Llanos, New York, NY
- 1:55 p.m.** **Molecular drivers of cancer diagnoses in African ancestry patients: Perspectives in head and neck squamous cell carcinoma.** Camille C.R. Ragin, Philadelphia, PA

CME Major Symposia • 1:00 p.m.–2:30 p.m.

Tangerine Ballroom 1 (WF1), Convention Center

B CELL RESPONSES AND TERTIARY LYMPHOID STRUCTURES IN CANCER

Chair: Yuliya Pylyayeva-Gupta, Chapel Hill, NC

- 1:00 p.m. Chair Introduction.** Yuliya Pylyayeva-Gupta, Chapel Hill, NC
- 1:05 p.m. Determinants of B cell function in cancer.** Yuliya Pylyayeva-Gupta, Chapel Hill, NC
- 1:30 p.m. Generation of B cell immunity in tertiary lymphoid structures supports response to immunotherapy.** Wolf Hervé Fridman, Paris, France
- 1:55 p.m. Integrative single-cell and spatial profiling of B cells and tertiary lymphoid structures in cancer.** Linghua Wang, Houston, TX

Room W224, Convention Center

CONTRIBUTIONS OF THE TUMOR GLYCOME TO IMMUNE SUPPRESSION AND IMMUNOTHERAPY RESISTANCE AND OPPORTUNITIES FOR THERAPEUTIC INTERVENTION

Chair: Avery D. Posey, Philadelphia, PA

- 1:00 p.m. Chair Introduction.** Avery D. Posey, Philadelphia, PA
- 1:05 p.m. Reprogramming the tumor-immune microenvironment by targeting galectin-glycan interactions.** Gabriel A. Rabinovich, Ciudad de Buenos Aires, Argentina
- 1:30 p.m. The glyco-code in cancer, novel immune checkpoints.** Yvette Van Kooyk, Amsterdam, Netherlands
- 1:55 p.m. Interactions between truncated O-glycans and the immune system, and opportunities for intervention.** Avery D. Posey, Philadelphia, PA

Valencia D, Convention Center

EMERGING CLINICAL STRATEGIES FOR MYELOID CELL MODULATION IN CANCER

Chair: Karin E. de Visser, Amsterdam, Netherlands

- 1:00 p.m. Chair Introduction.** Karin E. de Visser, Amsterdam, Netherlands
- 1:01 p.m. Tumor agnostic dendritic cell vaccines.** Michele De Palma, Lausanne, Switzerland
- 1:25 p.m. Dendritic cell intrinsic androgen receptor signaling reduces dendritic cell function and anti-tumor immunity.** Megan Ruhland, Portland, OR [AACR NextGen Star]

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- 1:43 p.m.** **Interleukin-8, neutrophils and NETs in a druggable collusion against cancer immunotherapy.** Ignacio Melero, Pamplona, Spain
- 2:07 p.m.** **Crosstalk between eosinophils and adaptive immune cells: A new avenue for immune checkpoint blockade in breast cancer.** Karin E. de Visser, Amsterdam, Netherlands

Room W315, Convention Center

Regulatory Science and Policy Session

MODERNIZING CLINICAL TRIAL CONDUCT AND EVIDENCE GENERATION: ADVANCING DECENTRALIZED ONCOLOGY TRIALS

Moderator: Paul G. Kluetz, Silver Spring, MD

Panelists: Muhammad Shaalan Beg, Durham, NC
 Hassan Kadhim, New York, NY
 Craig Lipset, New York, NY
 Timil Patel, Silver Spring, MD
 Alicia C. Staley, Charlestown, MA
 Ramya Thota, Murray, UT

Valencia BC, Convention Center

NEW INSIGHTS INTO CANCER INITIATION, EVOLUTION, THERAPY, AND SURVIVORSHIP THROUGH BIG DATA ANALYSIS

Chair: Jinghui Zhang, Memphis, TN

- 1:00 p.m.** **Chair Introduction.** Jinghui Zhang, Memphis, TN
- 1:05 p.m.** **Landscape of mutagenesis in over 12,000 whole genome sequenced cancers of UK NHS patients.** Serena Nik-Zainal, Cambridge, United Kingdom
- 1:25 p.m.** **Ordered and selective patterns of cancer genome evolution revealed by lineage tracing of sporadic p53 loss.** Timour Baslan, New York, NY
 [AACR NextGen Star]
- 1:40 p.m.** **Dynamics of age- versus therapy-related clonal hematopoiesis in 2,860 long-term survivors of pediatric cancer.** Jinghui Zhang, Memphis, TN
- 2:00 p.m.** **Big data approaches to study intercellular signaling during tumor immune evasion.** Peng Jiang, Bethesda, MD
- 2:20 p.m.** **Panel Discussion**

Room W304 E-H, Convention Center

**PATHOGENESIS OF CHILDHOOD CANCERS AND OPPORTUNITIES
FOR NEW THERAPEUTIC APPROACHES**

Chair: Sarah K. Tasian, Philadelphia, PA

- 1:00 p.m. Chair Introduction.** Sarah K. Tasian, Philadelphia, PA
- 1:05 p.m. Philadelphia chromosome-like ALL: Biology informs targeted therapies.**
Sarah K. Tasian, Philadelphia, PA
- 1:30 p.m. Mechanistic insights of brain tumor relapse.**
Jezabel Rodriguez-Blanco, Charleston, SC
- 1:55 p.m. Rhabdomyosarcoma: New research tools for precision medicine.** Corinne Mary Linardic, Durham, NC

Room W414, Convention Center

ROLE OF AGING IN CANCER

Chair: Sandra S. McAllister, Boston, MA

- 1:00 p.m. Chair Introduction.** Sandra S. McAllister, Boston, MA
- 1:05 p.m. Integrating noise from random damages into signals that presage breast cancer susceptibility.** Mark A. Labarge, Duarte, CA
- 1:30 p.m. Metabolic reprogramming: A bridge between aging and tumor progression.**
Ana P. Da Silva Gomes, Tampa, FL
- 1:55 p.m. Impact of immune age on cancer progression and therapeutic response.**
Sandra S. McAllister, Boston, MA

Tangerine Ballroom 3-4 (WF3-4), Convention Center

TARGETING RNA SPLICING IN CANCER AND THE IMMUNE SYSTEM

Chair: Olga A. Anczukow, Farmington, CT

- 1:00 p.m. Chair Introduction.** Olga A. Anczukow, Farmington, CT
- 1:05 p.m. Understanding and targeting RNA splicing in breast cancer.** Olga A. Anczukow, Farmington, CT
- 1:30 p.m. RNA splicing in cancer: From synthetic lethality to immuno-oncology and beyond.** Thomas (Trey) Westbrook, Houston, TX
- 1:55 p.m. From splicing to polyadenylation in tumor immunity.** Robert Bradley, Seattle, WA

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Special Session • 1:00 p.m.–2:30 p.m.

Tangerine Ballroom 2 (WF2), Convention Center

NEW DRUGS ON THE HORIZON: PART 1**Cochairs:** Mary M. Mader, Indianapolis, IN; David Millan, Cambridge, MA**1:00 p.m. Introduction.** Mary M. Mader, Indianapolis, IN**1:05 p.m. ND01 ABBV-319: A first-in-class Glucocorticoid Receptor Modulator (GRM) agonist ADC for the treatment of B-cell malignancies.** James W. Purcell, South San Francisco, CA**1:25 p.m. ND02 CTX112 and CTX131: Next-generation CRISPR/Cas9-engineered allogeneic (allo) CAR T cells incorporating novel edits that increase potency and efficacy in the treatment of lymphoid and solid tumors.** Jonathan A. Terrett, Cambridge, MA**1:45 p.m. ND03 Discovery of ARV-766, an androgen receptor degrading PROTAC® for the treatment of men with metastatic castration resistant prostate cancer.** Larry Snyder, New Haven, CT**2:05 p.m. ND04 BAY 2965501: A highly selective DGK- ζ inhibitor for cancer immuno-therapy with first-in-class potential.** Dennis Kirchhoff, Berlin, Germany**2:25 p.m. Closing remarks.** David Millan, Cambridge, MA**MEET AND GREET • 1:15 p.m.-2:45 p.m.****NOT ELIGIBLE FOR CME**

W Halls B-E1, AACR Central, Convention Center

MINORITIES IN CANCER RESEARCH (MICR) MEET AND GREET**Chair:** Clayton C. Yates, Baltimore, MD**MEET AND GREET 1:30 p.m.-3:00 p.m.****NOT ELIGIBLE FOR CME**

W Halls B-E1, AACR Central, Convention Center

WOMEN IN CANCER RESEARCH (WICR) MEET AND GREET**Chair:** Sheila Kumari Singh, Hamilton, ON, Canada

Poster Sessions • 1:30 p.m.-5:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

W Halls B-E1, Convention Center

Complete titles and author listings for abstracts in the poster sessions are available in the online Itinerary Planner and the Annual Meeting App.

TUMOR BIOLOGY

- Section 1 Mouse Models of Human Cancer
- Section 2 Novel Models of Human Cancer
- Section 3 Tumor Dormancy and Metastasis
- Section 4 Tumor Heterogeneity 1
- Section 5 Tumor Heterogeneity 2
- Section 6 Tumor Organoids for Cancer Research
- Section 7 Tumor Organoids for Therapeutic Testing

MOLECULAR/CELLULAR BIOLOGY AND GENETICS

- Section 8 Innovative Approaches for Tumor Profiling and Data Analysis 1
- Section 9 Innovative Approaches for Tumor Profiling and Data Analysis 2
- Section 10 Signaling Pathways in Cancer Metabolism
- Section 11 Targeting Replication Stress and the Immune Microenvironment
- Section 12 Tumor Signaling

MULTIDISCIPLINARY

- Section 13 Cancer Cachexia

EXPERIMENTAL AND MOLECULAR THERAPEUTICS

- Section 14 Drug Resistance in Molecular Targeted Therapies 1
- Section 15 Drug Resistance in Molecular Targeted Therapies 2
- Section 16 New Drug Targets
- Section 17 Novel Antitumor Agents 1
- Section 18 Novel Antitumor Agents 2
- Section 19 Oncogenes and Tumor Suppressor Genes as Targets for Therapy 1
- Section 20 Targeting the Tumor Microenvironment
- Section 35 Late-Breaking Research: Experimental and Molecular Therapeutics 1

IMMUNOLOGY

- Section 21 Adaptive Immunity to Tumors
- Section 22 Cancer-associated Inflammation and Microbiome
- Section 23 Innate Immunity to Tumors
- Section 24 Oncolytic Viruses, Anticancer Vaccines, and Other Immunomodulatory Therapies

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SCIENCE AND HEALTH POLICY

Section 26 Science and Health Policy / Regulatory Science and Policy

POPULATION SCIENCES

Section 27 Cancer Survivorship

PREVENTION / EARLY DETECTION / INTERCEPTION

Section 28 Omics and Imaging Approaches in Cancer Risk, Early Detection, and Response Assessment

COVID-19 AND CANCER

Section 29 COVID-19 and Cancer

CHEMISTRY

Section 30 Basic and Applied Nanotechnology and Nano-based Therapeutics and Drug Delivery

Section 34 Late-Breaking Research: Chemistry

BIOINFORMATICS / COMPUTATIONAL BIOLOGY / SYSTEMS BIOLOGY / CONVERGENT SCIENCE

Section 31 Mathematical Modeling of Tumor Growth and Treatment Response

Section 32 Molecular Modeling, Sequence, and Integrative Analysis

MOLECULAR/CELLULAR BIOLOGY AND GENETICS

Section 36 Late-Breaking Research: Molecular/Cellular Biology and Genetics 1

CLINICAL RESEARCH EXCLUDING TRIALS

Section 37 Adoptive Cell Therapy 1

Section 38 Analyses Using Clinical and Genomic Databases

Section 39 Biomarkers of Therapeutic Benefit 1

Section 40 Biostatistics in Clinical Trials / Surgical Oncology

Section 41 Diagnostic and Prognostic Biomarkers 1

Section 42 Liquid Biopsies: Circulating Nucleic Acids and Circulating Tumor Cells 1

Section 43 Precision Molecular Subtyping and Therapeutic Development

Section 44 Radiation Oncology / Radiation Science

Meet and Greet • 2:00 p.m.–3:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

Publications Booth 2743, W Halls B-E1
MEET THE EDITORS-IN-CHIEF OF *CANCER DISCOVERY*:
LEWIS C. CANTLEY, PhD AND LUIS A. DIAZ JR., MD

CME Awards and Lectures • 3:00 p.m.–3:45 p.m.

Room W311 E-H, Convention Center
**AACR-G.H.A. CLOWES AWARD FOR OUTSTANDING
BASIC CANCER RESEARCH**

Chair: Christine A. Iacobuzio-Donahue

3:00 p.m. Introduction. Christine A. Iacobuzio-Donahue

3:05 p.m. Award Lecture. M. Celeste Simon, Philadelphia, PA

Room W312, Convention Center
**AACR-MINORITIES IN CANCER RESEARCH
JANE COOKE WRIGHT LECTURESHIP**

Chair: Lorna Rodriguez-Rust, Duarte, CA

3:00 p.m. Introduction. Lorna Rodriguez-Rust, Duarte, CA

3:05 p.m. Award Lecture. Selwyn M. Vickers, Birmingham, AL

Meet and Greet • 3:00 p.m.–4:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

Publications Booth 2743, W Halls B-E1
**MEET THE EDITOR-IN-CHIEF OF *CANCER EPIDEMIOLOGY, BIOMARKERS &
PREVENTION*: ELIZABETH A. PLATZ, SCD, MPH**

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

CME Forum • 3:00 p.m.–4:30 p.m.

Room W315, Convention Center

Science Policy Session

**MAKING YOUR VOICES HEARD: AACR'S ADVOCACY EFFORTS
WITH POLICY MAKERS-DEDICATED TO THE MEMORY OF
CHAIRMAN JOHN EDWARD PORTER**

Moderator: Roy S. Herbst, New Haven, CT

Panelists: John DeMuro, Tampa, FL
Dana Acton, Washington, DC

CME Special Session • 3:00 p.m.–4:30 p.m.

Tangerine Ballroom 2 (WF2), Convention Center

NEW DRUGS ON THE HORIZON: PART 2

Cochairs: Joachim Rudolph, South San Francisco, CA; Sara J. Buhrlage, Boston, MA

3:00 p.m. Introduction. Joachim Rudolph, South San Francisco, CA

3:05 p.m. ND05 The discovery and characterization of CFT1946: A potent, selective, and orally bioavailable degrader of mutant BRAF for the treatment of BRAF-driven cancers. Yanke Liang, Watertown, MA

3:25 p.m. ND06 AMG 305, a dual targeting BiTE® molecule with selective activity for solid tumors that co-express CDH3 and MSLN. Elizabeth Pham, South San Francisco, CA

3:45 p.m. ND07 Discovery of RMC-6291, a tri-complex KRASG12C(ON) inhibitor. Jim Cregg, Belmont, CA

4:05 p.m. ND08 Discovery of FX-909, a first-in-class inverse agonist of the peroxisome proliferator-activated receptor gamma (PPARG) lineage transcription factor, to treat patients with the luminal subtype of advanced urothelial cancer (UC). Robert Sims, Cambridge, MA

4:25 p.m. Closing remarks. Sara J. Buhrlage, Boston, MA

CME Clinical Trials Minisymposium • 3:00 p.m.–5:00 p.m.

Valencia A, Convention Center

NOVEL CLINICAL TRIALS FOR HEMATOLOGICAL MALIGNANCIES

Cochairs: Dorothy A. Sipkins, Durham, NC; Clifton C. Mo, Boston, MA

- 3:00 p.m. Introduction**
- 3:05 p.m. CT021 Assessing clinical and pharmacodynamic (PD) profiles of patients (pts) with chronic lymphocytic leukemia (CLL) on ivalumab (VAY736) + ibrutinib.** Janghee Woo, Cambridge, MA
- 3:30 p.m. CT022 Five-year efficacy and safety of tafasitamab in patients with relapsed or refractory DLBCL: Final results from the phase II L-MIND study.** Johannes Duell, Würzburg, Germany
- 3:35 p.m. CT023 Phase 1 trial of CD19/CD20 bispecific chimeric antigen receptor-engineered naïve/memory T cells for relapsed or refractory non-Hodgkin lymphoma.** Benjamin R. Puliafito, Los Angeles, CA
- 3:50 p.m. CT024 REDIRECT: A Phase 2 study of AFM13 in patients with CD30positive relapsed or refractory (R/R) peripheral T cell lymphoma (PTCL).** Won Seog Kim, Seoul, Korea, Republic of
- 4:05 p.m. CT025 NMS-03592088, a novel, potent FLT3, KIT and CSF1R inhibitor with activity in FLT3 positive acute myeloid leukemia patients with prior FLT3 inhibitor experience.** Antonio Curti, Bologna, Italy
- 4:20 p.m. CT026 A first-in-human phase 1 study of LY3410738, a covalent inhibitor of mutant IDH, in advanced myeloid malignancies.** Courtney D. DiNardo, Houston, TX
- 4:35 p.m. Discussant.** William S. Dalton, Tampa, FL
- 4:50 p.m. Closing remarks**

CME Minisymposia • 3:00 p.m.–5:00 p.m.

Room W240, Convention Center

Bioinformatics / Computational Biology / Systems Biology / Convergent Science

CUTTING-EDGE COMPUTATIONAL APPROACHES FOR PRECISION ONCOLOGY AND CANCER BIOLOGY

Cochairs: Sylvia K. Plevritis, Stanford, CA; Jiyang Yu, Memphis, TN

- 3:00 p.m. Introduction**
- 3:05 p.m. 1116 Identifying neuroendocrine prostate cancer drivers using in vivo forward genetics.** Alessandro Vasciaveo, New York, NY

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- 3:20 p.m. 1117 Rapid label-free imaging-based evaluation of cancer dependencies in zero-passage primary cells.** Csaba Molnar, Cambridge, MA
- 3:35 p.m. 1118 High-dimensional deconstruction of pancreatic cancer identifies co-occurring TME features associated with survival.** Erik Storrs, St. Louis, MO
- 3:50 p.m. 1119 Systems pharmacology approaches to study tumor drug mechanism of action.** Lucas Zhongming Hu, New York, NY
- 4:05 p.m. 1120 Dissecting tumor cell programs through group biology estimation in clinical single-cell transcriptomics.** Shreya Johri, Boston, MA
- 4:20 p.m. 1121 Patient-centric Discovery by Active Learning (PeDAL) platform to predict drug response in a heterogeneous patient population.** Arlette H. Uihlein, Pittsburgh, PA
- 4:35 p.m. 1122 Pan-cancer analysis reveals roles of retrotransposon-fusion RNAs.** E. Alice Lee, Boston, MA
- 4:50 p.m. Closing remarks**

Room W414, Convention Center
Clinical Research Excluding Trials
IMMUNOTHERAPY

Cochairs: Juan R. Cubillos-Ruiz, New York, NY; Pedro J. Romero, Epalinges, Switzerland

- 3:00 p.m. Introduction**
- 3:05 p.m. 1124 PTEN loss confers resistance to anti-PD-1 therapy in NSCLC by increasing tumor infiltration of T regulatory cells.** Francisco Exposito, Pamplona, Spain / New Haven, CT
- 3:20 p.m. 1125 Neoantigen immunogenicity landscapes and evolution of tumor ecosystems during immunotherapy with nivolumab.** Tyler Joseph Alban, Cleveland, OH
- 3:35 p.m. 1126 Disease monitoring with comprehensive genomics provides evidence of mechanism of action and immune evasion in patients receiving an individualized neoantigen cancer vaccine.** Matthew Davis, Emeryville, CA
- 3:50 p.m. 1127 Preclinical development of safe and effective T cell receptors specific for mutant KRAS G12D peptide.** Loïc Vincent, Watertown, MA
- 4:05 p.m. 1128 Lineage tracing of CAR T cells in patients with B cell malignancies.** Zinaida Good, Stanford, CA
- 4:20 p.m. 1129 Targeting tissue-resident macrophage progenitors restores anti-tumor immunity and suppresses tumor growth.** Hui Chen, San Diego, CA
- 4:35 p.m. 1130 A phase 1 dose escalation study of GCC19CART - a novel CoupledCAR therapy for subjects with metastatic colorectal cancer.** Lei Xiao, Rockville, MD
- 4:50 p.m. Closing remarks**

SUNDAY, APRIL 16* | Minisymposia (cont'd)

Room W331, Convention Center

Experimental and Molecular Therapeutics

INNOVATIVE THERAPEUTIC APPROACHES

Cochairs: Mateusz Opyrchal, St. Louis, MO; Jonathan R. Brody, Portland, OR

3:00 p.m. Introduction

3:05 p.m. 1132 Exploiting MGMT loss using a new class of DNA modifiers which selectively target tumor DNA and overcome therapy resistance mechanisms across multiple tumor types. Kyle Tarantino, New Haven, CT

3:20 p.m. 1133 A B7-H4 targeting antibody-drug conjugate shows anti-tumor activity in PARPi and platinum resistant cancers with B7-H4 expression. Sarah B. Gitto, Philadelphia, PA

3:35 p.m. 1134 Therapeutic potential of an antibody-drug conjugate directed against a tumor-specific epitope on podocalyxin. Pamela M. Austin Dean, Vancouver, BC, Canada

3:50 p.m. 1135 TP317, a first-in-class resolvin E1 small molecule, potentiates the efficacy of immune checkpoint (ICI) inhibitors in ICI-resistant and ICI-sensitive tumors. Franciele C. Kipper, Boston, MA

4:05 p.m. 1136 Targeting DHX9 inhibition as a novel therapeutic modality in microsatellite instable colorectal cancer. Jennifer Castro, Lexington, MA

4:20 p.m. 1137 Identification of a high selective SMARCA2 degrader which effectively suppresses the SMARCA4-deficient tumors in vitro and in vivo. Renhong Tang, Nanjing, China

4:35 p.m. 1138 Novel SMARCA2 degrading bifunctional molecules as therapeutics in SMARCA4 mutant lung cancer. Yonathan Lissanu, Houston, TX

4:50 p.m. Closing remarks

Room W224, Convention Center

Experimental and Molecular Therapeutics

SMALL MOLECULE THERAPEUTIC AGENTS

Cochairs: Rachel N. Grisham, New York, NY; Judy Leopold, Ann Arbor, MI

3:00 p.m. Introduction

3:05 p.m. 1140 Pre-clinical efficacy of targeting BAF complexes through inhibition of the dual ATPases BRG1 and BRM by FHD-286 in cellular models of AML. Warren C. Fiskus, Houston, TX

3:20 p.m. 1141 The CoREST complex as a novel target to disrupt AT/RT's abnormal epigenetic landscape. Anupa Geethadevi, Baltimore, MD

3:35 p.m. 1142 Discovery of FMC-376 a novel orally bioavailable inhibitor of activated KRASG12C. Kevin R. Webster, Boston, MA

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- 3:50 p.m. 1143 Development of a CDK2-selective small molecule inhibitor INCB123667 for the treatment of CCNE1hi breast cancers.** Saswati Chand, Wilmington, DE
- 4:05 p.m. 1144 Dynamic changes in circulating tumor DNA (ctDNA) in patients treated with sotorasib for KRAS G12C mutant non-small cell lung cancer.** Yonina R. Murciano-Goroff, New York, NY
- 4:20 p.m. 1145 PH020-803: an MTA-cooperative and brain-penetrable PRMT5 inhibitor that selectively targets MTAP-deleted tumors.** Feng Gao, Beijing, China
- 4:35 p.m. 1146 Tepotinib treatment inhibits tumor growth and affects tumor permeability in an intracranial PDX model of MET-amplified NSCLC brain metastasis.** Joachim Albers, Darmstadt, Germany
- 4:50 p.m. Closing remarks**

Valencia BC, Convention Center

Immunology

GENETICALLY ENGINEERED ANTICANCER T CELLS

Chair: Nabil Ahmed, Houston, TX; Jose-Alejandro Guevara, Tampa, FL

- 3:00 p.m. Introduction**
- 3:05 p.m. 1148 1XX mutations slow CAR T cell signaling and increase in vivo persistence.** Cynthia C. Bamdad, Waltham, MA
- 3:20 p.m. 1149 Universal redirection of chimeric antigen receptor T cells against solid tumors via tumor cell membrane-inserting CAR ligands.** Angela Zhang, Cambridge, MA
- 3:35 p.m. 1150 CD70 HIT T cells overcome tumor antigen heterogeneity in renal cell carcinoma.** Sophie A. Hanina, New York, NY
- 3:50 p.m. 1151 CD6 isoforms improve CAR T cell fitness.** Jessica S. Morris, Houston, TX
- 4:05 p.m. 1152 NKTR-255, a polymer-conjugated IL-15, dramatically improves ROR1 CAR-T cell persistence and anti-tumor efficacy in an autochthonous model of ROR1+ lung cancer.** W. Sam Nutt, Seattle, WA
- 4:20 p.m. 1153 IL-4 depletion leads to the improvement of CART cell therapy.** Carli Stewart, Rochester, MN
- 4:35 p.m. 1154 Investigating the functional role of GPNMB in glioblastoma and the tumor immune microenvironment and its targeted elimination using CAR-Ts.** Neil Savage, Hamilton, ON, Canada
- 4:50 p.m. Closing remarks**

Room W304 A-D, Convention Center
Molecular/Cellular Biology and Genetics
METABOLISM AND CANCER

Cochairs: Nissim Hay, Chicago, IL; Jorge Moscat, New York, NY

- 3:00 p.m. Introduction**
- 3:05 p.m. 1156 GUK1 is a novel metabolic liability in oncogene-driven lung cancer.** Jaime Laurel Schneider, Boston, MA
- 3:20 p.m. 1157 Uncovering a novel role of peroxisomal β -oxidation in advanced, treatment-resistant prostate cancer.** Chui Yan Mah, Adelaide, Australia
- 3:35 p.m. 1158 Inosine endows CAR T cells with features of increased stemness and anti-tumor potency.** Dorota Klysz, Palo Alto, CA
- 3:50 p.m. 1159 BRAF-mediated PHGDH induction establishes a metabolic vulnerability in melanoma.** Neel Jasani, Tampa, FL
- 4:05 p.m. 1160 A machine learning based method for in-vivo metabolic flux analysis of patient tumors.** Anjali Mittal, Ann Arbor, MI
- 4:20 p.m. 1161 Primary and metastatic tumors exhibit systems-level differences in dependence on mitochondrial respiratory function.** Neal K. Bennett, San Francisco, CA
- 4:35 p.m. 1162 Ketogenic diet promotes tumor ferroptosis but induces relative corticosterone deficiency that accelerates cachexia.** Miriam Ferrer, Cold Spring Harbor, NY
- 4:50 p.m. Closing remarks**

Tangerine Ballroom 1 (WF1), Convention Center
Molecular/Cellular Biology and Genetics
TUMOR HETEROGENEITY AT SINGLE-CELL RESOLUTION IN SPACE AND TIME

Cochairs: Jinghui Zhang, Memphis, TN

- 3:00 p.m. Introduction**
- 3:05 p.m. 1164 Spatiotemporal profiling defines persister and resistance signatures in targeted treatment of melanoma.** Jill Carol Rubinstein, Farmington, CT
- 3:20 p.m. 1165 Mechanisms of therapeutic resistance in pancreatic cancer identified by single-cell spatial transcriptomics and genetically-engineered stromal tumoroids.** Carina Shiao, Boston, MA
- 3:35 p.m. 1166 APOBEC deaminases compete with tobacco smoking mutagenesis and affect age at onset of lung cancer.** Tongwu Zhang, Bethesda, MD

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

- 3:50 p.m. 1167 Single-cell transcriptomic profiling of SCLC transformation reveals increased intratumoral diversity of variant and non-neuroendocrine subtypes.** Joseph Minhow Chan, New York, NY
- 4:05 p.m. 1168 Mutational processes in tumor-adjacent normal kidneys across countries with varying cancer incidence rates.** Yichen Wang, Cambridge, United Kingdom
- 4:20 p.m. 1169 Genomic evolution of pancreatic cancer at single-cell resolution.** Haochen Zhang, New York, NY
- 4:35 p.m. 1170 Scalable co-sequencing of RNA and DNA from individual nuclei.** Timothy R. Olsen, New York, NY
- 4:50 p.m. Closing remarks**

Room W230, Convention Center

Multidisciplinary

ADVANCING CANCER RESEARCH THROUGH AN INTERNATIONAL CANCER REGISTRY: AACR PROJECT GENIE USE CASES

Chair: Shannon McWeeney, Portland, OR

- 3:00 p.m. Introduction** Shannon McWeeney, Portland, OR
- 3:05 p.m. 1172 Oncogenic context shapes the fitness landscape of tumor suppression.** Lily M. Blair, Mountain View, CA
- 3:20 p.m. 1173 Landscape of 4,506 pan-cancer samples harboring BRAFV600E mutations, and NTRK/RET Fusions from 137,401 adult patients with cancer: Clinical implications for tissue agnostic therapies.** Mohamed A. Gouda, Houston, TX
- 3:35 p.m. 1174 Enhancing the utilization of deep learning to predict patient response in small immunotherapy cohorts using real-world data.** Gustavo Arango-Argoty, Waltham, MA
- 3:50 p.m. 1175 Systematic profiling of conditional pathway activation as a new class of cancer dependency.** Liang Chang, Cambridge, MA
- 4:05 p.m. 1176 Quantitative integration of PIK3CA hotspots and paralogy identifies occult oncogenic mutants in PIK3CD.** Aphrothiti J. Hanrahan, New York, NY
- 4:20 p.m. 1177 Genomic characteristics and clinical outcomes of early onset colorectal cancer (EOCRC): Findings from AACR Project GENIE Biopharma Collaborative registry.** Enrique Sanz Garcia, Toronto, ON, Canada
- 4:35 p.m. LB056 Crowdsourcing rare cancer research in the Hack4NF GENIE-NF tumor identification and classification challenge.** Robert J. Allaway, Seattle, WA
- 4:50 p.m. Closing remarks.** Shannon McWeeney, Portland, OR

Room W304 E-H, Convention Center

Population Sciences

BEYOND GWAS: UNDERSTANDING ETIOLOGIC HETEROGENEITY

Chair: Joellen Schildkraut, Atlanta, GA; Jirong Long, Nashville, TN

- SUNDAY
- | | |
|-----------|---|
| 3:00 p.m. | Introduction |
| 3:05 p.m. | 1180 Identification of target proteins for breast cancer genetic risk loci and blood risk biomarkers in a large study by integrating genomic and proteomic data. Guochong Jia, Nashville, TN |
| 3:20 p.m. | 1181 Etiologic heterogeneity of genetic risk for DLBCL cell-of-origin molecular subtypes. Rosalie Griffin Waller, Rochester, MN |
| 3:35 p.m. | 1182 Association of prostate cancer candidate genes with overall and aggressive prostate cancer in men of African ancestry. Fei Chen, Los Angeles, CA |
| 3:50 p.m. | 1183 Mutation type and location in breast cancer susceptibility genes are associated with differential risk in the general population. Mwangala P. Akamandisa, Philadelphia, PA |
| 4:05 p.m. | 1184 Impact of individual level uncertainty of lung cancer polygenic risk score on risk stratification and prediction. Xinan Wang, Boston, MA |
| 4:20 p.m. | 1185 Mosaic chromosomal alterations are independent predictors of chronic lymphocytic leukemia risk. Aubrey K. Hubbard, Rockville, MD |
| 4:35 p.m. | 1186 Contraception and ovarian cancer risk by tumor immune profiles. Jennifer Mongiovi, Boston, MA |
| 4:50 p.m. | Closing remarks |

Room W311 A-D, Convention Center

Tumor Biology

INTERACTIONS BETWEEN TUMOR CELLS AND IMMUNE CELLS, NEURONS, AND FIBROBLASTS IN THE TUMOR MICROENVIRONMENT

Cochairs: Sandra W. Ryeom, New York, NY; Florencia McAllister, Houston, TX

- | | |
|-----------|--|
| 3:00 p.m. | Introduction |
| 3:05 p.m. | 1188 L-17/IL-17RA signaling in the pancreatic epithelium upregulates B7-H4 to promote tumorigenesis. Susana Castro Pando, Houston, TX |
| 3:20 p.m. | 1189 MERTK is a target in the microenvironment of osteolytic bone metastasis. Janik Engelmann, Hamburg, Germany |
| 3:35 p.m. | 1190 Mimicking CAFs, pial cells support leptomeningeal metastasis. Jenna Snyder, New York, NY |

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

- 3:50 p.m. 1191 Targeting the tumor extracellular matrix to enhance therapeutic interventions in glioblastoma.** Sara Pedron-Haba, Urbana, IL
- 4:05 p.m. 1192 Branched-chain keto acids exert an immune-suppressive and neurodegenerative microenvironment in CNS leptomeningeal lymphoma.** Mariam Lotfy Khaled, Tampa, FL
- 4:20 p.m. 1193 Sensory innervation directly promotes gastric cancer and modulates the tumor microenvironment.** Xiaofei Zhi, New York, NY
- 4:35 p.m. 1194 Evolution of immune and stromal cell states during the gastric cancer continuum.** Ruiping Wang, Houston, TX
- 4:50 p.m. Closing remarks**

Room W307, Convention Center

Tumor Biology

PEDIATRIC CANCER 1: GENOMICS AND BIOLOGY INFORM INNOVATIVE DIAGNOSTIC AND TREATMENT APPROACHES

Cochairs: Mignon L. Loh, Seattle, WA; David Malkin, Toronto, ON, Canada

- 3:00 p.m. Introduction**
- 3:05 p.m. 1196 The epigenetic impact and therapeutic opportunity of AR-directed therapy for DSRCT.** Danh Truong, Houston, TX
- 3:20 p.m. 1197 B7-H3-CAR T cells for the treatment of pediatric adrenocortical carcinoma.** Rebecca Epperly, Memphis, TN
- 3:35 p.m. 1198 T cell receptor (TCR) landscape of childhood brain tumors.** Itay Raphael, Pittsburgh, PA
- 3:50 p.m. 1199 Discovery of subtype-specific and therapy associated effects on the tumor immune microenvironment in pediatric neuroblastoma.** Katherine E. Masih, Bethesda, MD
- 4:05 p.m. 1200 Aurora kinase A is a potential therapeutic target regulated by the MYCN oncogene in human retinoblastoma.** Naheed Arfin Borah, Bhubaneswar, India
- 4:20 p.m. 1201 ALK amplification and rearrangements are recurrent targetable events in congenital and adult glioblastoma.** Anne-Florence Blandin, Boston, MA
- 4:35 p.m. 1202 Targeting cell adhesion molecule 1 (CADM1) with an antibody drug conjugate for the treatment of osteosarcoma.** Yifei Wang, Houston, TX
- 4:50 p.m. Closing remarks**

CME Clinical Trials Plenary Session • 3:30 p.m.–5:30 p.m.

W Hall A2-3, Convention Center

HOPE FOR RARE CANCERS: NOVEL TARGETED AND IMMUNOTHERAPY AGENTS

Cochairs: Hedy Kindler, Chicago, IL; Brian A. Van Tine, St. Louis, MO

Introduction

3:30 p.m. CT006 First-in-class, first-in-human phase 1 trial of VT3989, an inhibitor of yes-associated protein (YAP)/transcriptional enhancer activator domain (TEAD), in patients (pts) with advanced solid tumors enriched for malignant mesothelioma and other tumors with neurofibromatosis 2 (NF2) mutations. Timothy A. Yap, Houston, TX

3:45 p.m. Discussant. Dean A. Fennell, Leicester, United Kingdom

3:55 p.m. Discussion

4:00 p.m. CT007 Phase 2-3 trial of pegargiminase plus chemotherapy versus placebo plus chemotherapy in patients with non-epithelioid pleural mesothelioma. Peter W. Szlosarek, London, United Kingdom

4:15 p.m. Discussant. Patrick M. Forde, Baltimore, MD

4:25 p.m. Discussion

4:30 p.m. CT008 Pembrolizumab (pembro) in combination with gemcitabine and cisplatin (gem/cis) for advanced biliary tract cancer (BTC): Phase 3 KEYNOTE-966 study. Robin Kate Kelley, San Francisco, CA

4:45 p.m. Discussant. Rachna T. Shroff, Tucson, AZ

4:55 p.m. Discussion

5:00 p.m. CT009 S1512: High response rate with single agent anti-PD-1 in patients with metastatic desmoplastic melanoma. Kari Kendra, Columbus, OH

5:15 p.m. Discussant. Zeynep Eroglu, Tampa, FL

5:25 p.m. Discussion

CME Awards and Lectures • 4:00 p.m.–4:45 p.m.

Room W311 E-H, Convention Center

AACR-WAUN KI HONG AWARD FOR OUTSTANDING ACHIEVEMENT IN TRANSLATIONAL AND CLINICAL CANCER RESEARCH

Chair: Anne S. Tsao, Houston, TX

4:00 p.m. Introduction. Anne S. Tsao, Houston, TX

4:05 p.m. Award Lecture. Jun J. Yang, Memphis, TN

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Room W312, Convention Center
**AACR-WOMEN IN CANCER RESEARCH
CHARLOTTE FRIEND LECTURESHIP**

Chair: Sheila Kumari Singh, Dundas, ON, Canada

4:00 p.m. Introduction. Sheila Kumari Singh, Dundas, ON, Canada

4:05 p.m. Paying it forward — a path to a successful career in cancer research.
Cory Abate-Shen, New York, NY

Meet and Greet • 4:00 p.m.–5:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

Publications Booth 2743, W Halls B-E1
MEET THE EDITOR-IN-CHIEF OF *CANCER RESEARCH*:
CHRISTINE A. IACOBUZIO-DONAHUE, MD, PHD

NCI-NIH-Sponsored Session • 4:00 p.m.–5:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

Room W314 A, Convention Center

**NCI FUNDING OPPORTUNITIES IN CANCER IMMUNOPREVENTION
AND CHEMOPREVENTION**

Moderator: Robert H. Shoemaker, Bethesda, MD

4:00 p.m. Beyond immunotherapy, towards immunoprevention: NCI journey so far.
Robert H. Shoemaker, Bethesda, MD

4:15 p.m. Overview of Cancer Immunoprevention Network (CIP-Net). Altaf
Mohammed, Rockville, MD

4:30 p.m. HTAN Pre-Cancer Atlases: Immune targeting opportunities.
Sharmistha Ghosh-Janjigian, Rockville, MD

4:45 p.m. Overview of PREVENT drug development program. Mark Steven Miller,
Rockville, MD

Special Session • 4:00 p.m.–5:00 p.m.

Room W330, Convention Center

Science Policy Session

PATIENT AND COMMUNITY ADVOCATE PARTNERS IN CANCER RESEARCH:
DEDICATED TO THE MEMORY OF MARY (DICEY) JACKSON SCROGGINS

Moderator: Patricia Spears, Chapel Hill, NC

Speakers: To be announced

CME

Awards and Lectures • 4:30 p.m.–5:15 p.m.

Valencia D, Convention Center

AACR AWARD FOR LIFETIME ACHIEVEMENT IN CANCER RESEARCH

Chair: To be announced

4:00 p.m. Introduction. To be announced

4:35 p.m. Award Lecture. Carl H. June, Philadelphia, PA

Tangerine Ballroom 3-4 (WF3-4), Convention Center

AACR AWARD FOR OUTSTANDING ACHIEVEMENT IN
CHEMISTRY IN CANCER RESEARCH

Chair: Chudi Ndubaku, Montreal, QC, Canada

4:30 p.m. Introduction. Chudi Ndubaku, Montreal, QC, Canada

4:35 p.m. Award Lecture. Carolyn R. Bertozzi, Stanford, CA

Professional Advancement Sessions • 5:00 p.m.–6:30 p.m.

NOT ELIGIBLE FOR CME CREDIT

Junior Ballroom F, Rosen Centre Hotel

HOW TO DESIGN A SUCCESSFUL CAREER PATH IN CANCER RESEARCH:
THE DO'S AND DON'TS FOR EARLY-STAGE INVESTIGATORS

Cochairs: Jose G. Trevino, Richmond, VA; Folakemi T. Odedina, Jacksonville, FL;
Mariana C. Stern, Los Angeles, CA; Peter DelNero, Little Rock, AR

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Executive H-I, Rosen Centre Hotel
PERSONALIZED CAREER CONVERSATIONS

Cochairs: Antonio T. Baines, Greensboro, NC; Melissa B. Davis, New York, NY; Shiva Malek, South San Francisco, CA; Erica S. Tsang, Vancouver, BC, Canada

CME Awards and Lectures • 5:30 p.m.–6:15 p.m.

Chapin Theater, Convention Center
PRESIDENTIAL ADDRESS: IDENTIFYING IMMUNE VULNERABILITIES IN SOLID TUMORS - LEUKOCYTE COMMUNICATION NETWORKS REGULATE NEOPLASTIC PROGRESSION AND RESPONSE TO THERAPY

Chair: William N. Hait, New Brunswick, NJ

- 5:30 p.m. Introduction.** William N. Hait, New Brunswick, NJ
- 5:35 p.m. Identifying immune vulnerabilities in solid tumors: Leukocyte communication networks regulate neoplastic progression and response to therapy.** Lisa M. Coussens, Portland, OR

Town Meetings • 6:00 p.m.–8:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

Windermere W, Hyatt Regency
CELL-OF-ORIGIN AND TUMOR HETEROGENEITY IN CHILDHOOD CANCERS: A PEDIATRIC CANCER WORKING GROUP TOWN HALL MEETING AND NETWORKING RECEPTION

Chair: Katherine A. Janeway, Boston, MA

- 6:00 p.m. Networking Reception**
- 6:30 p.m. PCWG Working Group Overview.** E. Alejandro Sweet-Cordero, San Francisco, CA; Katherine A. Janeway, Boston, MA
- 6:40 p.m. Title to be announced.** Sam Behjati, Cambridgeshire, United Kingdom
- 6:50 p.m. Title to be announced.** Mariella G. Filbin, Boston, MA
- 7:00 p.m. Title to be announced.** Frank Westermann, Heidelberg, Germany
- 7:10 p.m. Panel Discussion**
- 7:30 p.m. Networking Reception**

Windermere Y, Hyatt Regency
POSITIONING THE AACR AT THE FOREFRONT OF RADIATION SCIENCE AND MEDICINE INNOVATION: A RADIATION SCIENCE AND MEDICINE WORKING GROUP TOWN HALL MEETING AND NETWORKING RECEPTION

Chair: Silvia C. Formenti, New York, NY

- 6:00 p.m. Networking Reception**
- 6:30 p.m. RSM Working Group Overview.** Silvia C. Formenti, New York, NY; Fei-Fei Liu, Toronto, ON, Canada
- 6:40 p.m. Title to be announced.** Mekhail Anwwar, San Francisco, CA
- 6:50 p.m. Targeting DNA repair in cancer therapy.** Alan D. D'Andrea, Boston, MA
- 7:00 p.m. Title to be announced.** Jennifer S. Yu, Cleveland, OH
- 7:10 p.m. Panel Discussion**
- 7:30 p.m. Networking Reception**

Windermere X, Hyatt Regency
TUMOR-BODY INTERACTIONS: EMERGING INSIGHTS INTO THE INTERPLAY BETWEEN TUMOR MICRO- AND MACROENVIRONMENTS: A TUMOR MICROENVIRONMENT WORKING GROUP TOWN HALL MEETING AND NETWORKING RECEPTION

Chair: Mikala Egeblad, Cold Spring Harbor, NY

- 6:00 p.m. Networking Reception**
- 6:30 p.m. TME Working Group Overview.** Mikala Egeblad, Cold Spring Harbor, NY
- 6:40 p.m. Untangling the connection between chronic stress and breast cancer metastasis.** Xue-Yan He, Cold Spring Harbor, NY
- 6:50 p.m. The aged pancreatic microenvironment promotes pancreatic cancer progression.** Daniel J. Zabransky, Baltimore, MD
- 7:00 p.m. Microbiota-derived 3-IAA influences chemotherapy efficacy in pancreatic cancer.** Joseph Tinteln, Hamburg, Germany
- 7:10 p.m. Panel Discussion**
- 7:30 p.m. Networking Reception**

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

Special Session • 6:30 p.m.–8:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

West Lobby B - Convention Center

NETWORKING HUBS

Networking Hubs:

CancerCareers: Scientific Careers' Resource Center

Digital Technologies for Research and Trials

Entrepreneurship

Hematologic Malignancies

Interception, Early Detection, and Prevention

Resiliency and Survivorship

MONDAY, APRIL 17*

CME **Meet-the-Expert Sessions • 7:00 a.m.–7:45 a.m.**

Room W240, Convention Center
AGING BIOMARKERS AND ACCELERATED AGING AS A NEW PARADIGM FOR CLINICAL RESEARCH IN SURVIVORS OF CHILDHOOD CANCER

Zhaoming Wang, Memphis, TN

Room W331, Convention Center
BIOLOGY, GENETICS, AND NOVEL THERAPIES FOR METASTATIC DISEASE

Sohail Tavazoie, New York, NY

Room W311 A-D, Convention Center
COLLABORATING ACROSS DISCIPLINES – INCLUDING EPIDEMIOLOGY – FOR CANCER DISCOVERY AND TRANSLATION

Elizabeth A. Platz, Baltimore, MD

Room W312, Convention Center
CONTROL OF TELOMERASE IN CANCER

Steven E. Artandi, Stanford, CA

Room W330, Convention Center
CONTROVERSIES IN FRONT LINE THERAPY OF DIFFUSE LARGE B-CELL LYMPHOMA: IS RCHOP STILL A STANDARD?

Grzegorz S. Nowakowski, Rochester, MN

Room W311 E-H, Convention Center
EMERGING INTERDISCIPLINARY OPPORTUNITIES IN COMPUTATIONAL ONCOLOGY

Eliezer M. Van Allen, Boston, MA

Chapin Theater, Convention Center
IMMUNE SURVEILLANCE: WHAT’S NEW IN RESPONDING CELLS AND REGULATION

Pamela S. Ohashi, Toronto, ON, Canada

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

Room W304 E-H, Convention Center

JOS JONKERS: TITLE TO BE ANNOUNCED

Jos Jonkers, Amsterdam, Netherlands

Room W315, Convention Center

PREDICTION AND PREVENTION: SEEKING THE HOLY GRAIL FOR CANCER PREDISPOSITION

David Malkin, Toronto, ON, Canada

Room W304 A-D, Convention Center

RESISTANCE TO ENDOCRINE THERAPY IN BREAST CANCER

Carlos L. Arteaga, Dallas, TX

Room W307, Convention Center

SMALL MOLECULE TARGETING OF TRANSCRIPTION-REPLICATION CONFLICT FOR SELECTIVE CHEMOTHERAPY

Linda H. Malkas, Duarte, CA

Room W314 A, Convention Center

SO YOU WANT TO JOIN A HOT BAND CALLED CLINICAL IMPACT, PLEASE COME AND JOIN! SPECIFICALLY WANTED/NEEDED ARE CLINICIANS AND BASIC/TRANSLATIONAL SCIENTISTS

Jonathan R. Brody, Portland, OR

Room W230, Convention Center

UNDERSTANDING LUNG CANCER DISPARITIES THROUGH MULTIETHNIC STUDIES

Loic Le Marchand, Honolulu, HI

MONDAY, APRIL 17* (cont'd)

CME **Plenary Session • 8:00 a.m.–10:00 a.m.**

W Hall A2-3, Convention Center
EARLY DETECTION AND INTERCEPTION OF CANCER

Chair: Peter Kuhn, Los Angeles, CA

- 8:00 a.m. Introduction.** Peter Kuhn, Los Angeles, CA
- 8:05 a.m. New insights into carcinogenesis from normal esophagus.**
Phil H. Jones, Cambridge, United Kingdom
- 8:27 a.m. When to intervene along the breast cancer continuum?** E. Shelley Hwang,
Durham, NC
- 8:49 a.m. Improving cancer outcomes through equitable access to cfDNA tests.**
Phillip G. Febbo, San Diego, CA
- 9:11 a.m. Forecasting pancreatic carcinogenesis through spatial multi-omics.** Elana
Judith Fertig, Baltimore, MD
- 9:33 a.m. Early engagement equals early detection.** Karriem S. Watson, Bethesda, MD
- 9:55 a.m. Wrap-up and opportunities for the future.** Peter Kuhn, Los Angeles, CA

Poster Sessions • 9:00 a.m.-12:30 p.m.

NOT ELIGIBLE FOR CME CREDIT

W Halls B-E1, Convention Center

Complete titles and author listings for abstracts in the poster sessions are available in the online Itinerary Planner and the Annual Meeting App.

TUMOR BIOLOGY

- Section 1 Carcinogenesis and Mutagenesis
- Section 2 EMT and Plasticity
- Section 3 Metabolic Influences on the Tumor Microenvironment
- Section 4 Metastasis Promoting and Suppressing Genes
- Section 5 Metastatic and Premetastatic Microenvironments
- Section 6 Tumor Cell Interactions with Fibroblasts, Neuronal Cells, and Immune Cells

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

MOLECULAR/CELLULAR BIOLOGY AND GENETICS

- Section 8 Autophagy, Mitochondrial Function, and Ferroptosis
- Section 9 Biomarker Discovery
- Section 10 Cell Cycle Progression, Checkpoint, and Telomeres
- Section 11 Gene Regulation in Hormonal and Pediatric Cancers
- Section 12 Gene Regulation in Solid Tumors
- Section 13 Tumor Heterogeneity and Clonal Evolution

EXPERIMENTAL AND MOLECULAR THERAPEUTICS

- Section 14 Antibody Drug Conjugates
- Section 15 Cell Cycle/Cell Proliferation Inhibitors for Cancer Therapy
- Section 16 New Therapeutic Targeted Agents
- Section 17 Novel Antitumor Agents 3
- Section 18 Novel Antitumor Agents 4
- Section 19 Novel Mechanisms / Drug Transport and Metabolism
- Section 20 Oncogenes and Tumor Suppressor Genes as Targets for Therapy 2
- Section 21 Reversal of Drug Resistance

IMMUNOLOGY

- Section 22 CAR T-cell Therapy 1
- Section 23 Immunomodulatory Agents and Interventions 1
- Section 24 Immunomodulatory Agents and Interventions 2
- Section 25 Therapeutic Antibodies 1
- Section 35 Late-Breaking Research: Immunology 1

POPULATION SCIENCES

- Section 26 Cancer Disparities 1
- Section 27 Cancer Disparities 2

PREVENTION / EARLY DETECTION / INTERCEPTION

- Section 28 Cancer Disparities Research
- Section 36 Late-Breaking Research: Prevention, Early Detection, and Interception

CHEMISTRY

- Section 30 Drug Delivery
- Section 31 Proteomics and Biomarker Discovery

BIOINFORMATICS / COMPUTATIONAL BIOLOGY /
SYSTEMS BIOLOGY / CONVERGENT SCIENCE

- Section 32 Bioinformatics Applications in Cancer Biology 1
- Section 33 New Analysis Tools
- Section 34 Late-Breaking Research: Bioinformatics, Computational Biology, Systems
Biology, and Convergent Science 1

CLINICAL RESEARCH EXCLUDING TRIALS

- Section 38 Biomarkers for Elucidation of Tumor Biology and Metastasis
- Section 39 Biomarkers of Therapeutic Benefit 2
- Section 40 Biomarkers of Therapeutic Benefit 3
- Section 41 Diagnostic and Prognostic Biomarkers 2
- Section 42 Genomic and Epigenomic Profiles for Response Prediction
- Section 43 Immune Response to Therapies
- Section 44 Liquid Biopsies: Circulating Nucleic Acids and Circulating Tumor Cells 2
- Section 45 Modifiers of the Tumor Microenvironment

CLINICAL TRIALS

- Section 46 Phase II and Phase III Clinical Trials in Progress
- Section 47 Phase III and Pediatric Clinical Trials

Meet and Greet • 9:30 a.m.–10:30 a.m.

NOT ELIGIBLE FOR CME CREDIT

Publications Booth 2743, W Halls B-E1

MEET THE EDITORS-IN-CHIEF OF *CANCER IMMUNOLOGY RESEARCH*:
ROBERT D. SCHREIBER, PhD AND PHILIP D. GREENBERG, MD

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

CME

Awards and Lectures • 10:15 a.m.–11:00 a.m.

Chapin Theater, Convention Center

Science Policy Session

NCI DIRECTOR'S ADDRESS AND FIRESIDE CHAT

10:15 a.m. Introduction. Lisa M. Coussens, Portland, OR

10:20 a.m. NCI Director's Address. Monica Marie Bertagnolli, Bethesda, MD

10:30 a.m. Fireside Chat

CME

Advances in Organ Site Research • 10:15 a.m.–11:45 a.m.

Valencia BC, Convention Center

INFORMING FUTURE PRECISION MEDICINE TRIALS FOR PANCREATIC CANCER

Chair: Jennifer J. Knox, Toronto, ON, Canada

10:15 a.m. Introduction. Jennifer J. Knox, Toronto, ON, Canada

10:20 a.m. The necessity, the challenge and tangible hope of precision trials in pancreatic cancer. Jennifer J. Knox, Toronto, ON, Canada

10:45 a.m. The cellular heterogeneity of pancreatic cancer drives local and systemic immune responses and leads to opportunities for patient stratification and trial design. Marina Pasca Di Magliano, Ann Arbor, MI

11:10 a.m. Clonal architecture and tumor heterogeneity during treatment response and dissemination: Lessons from barcoding. Andrea Viale, Houston, TX

11:35 a.m. Panel Discussion

Room W304 E-H, Convention Center

THE OVARIAN CANCER MICROENVIRONMENT: PROMISE FOR NEW THERAPIES

Chair: Kathleen N. Moore, Oklahoma City, OK

10:20 a.m. Building human ovarian cancer microenvironment models. Frances R. Balkwill, London, United Kingdom

10:45 a.m. Preclinical evidence for targeting the microenvironment. Katherine C. Fuh, St. Louis, MO

11:10 a.m. Targeting the microenvironment: Moving bench findings to the bedside in ovarian cancer. Kathleen N. Moore, Oklahoma City, OK

MONDAY

CME **Advances in Population Sciences • 10:15 a.m.–11:45 a.m.**

Room W307, Convention Center
BEHAVIORAL ECONOMICS AND NUDGES TO IMPROVE CANCER CARE

Chair: Shivan J. Mehta, Philadelphia, PA

- 10:20 a.m. Behavioral economic approaches for population-based cancer screening.**
Shivan J. Mehta, Philadelphia, PA
- 10:45 a.m. From biomarker testing to targeted therapy: Leveraging behavioral nudges to optimize precision oncology care.** Kelsey S. Lau-Min, Boston, MA
- 11:10 a.m. Nudging our way to better end-of-life care for patients with cancer.**
Christopher Manz, Boston, MA

CME **Advances in the Science of Cancer Disparities
10:15 a.m.–11:45 a.m.**

Tangerine Ballroom 1 (WF1), Convention Center
STRUCTURE VS. BIOLOGY AND THE IMPACT ON OUR COMMUNITIES

Chair: Robert A. Winn, Richmond, VA

- 10:15 a.m. Chair Introduction.** Robert A. Winn, Richmond, VA
- 10:20 a.m. The missing omics in the structure vs. biology.** Robert A. Winn, Richmond, VA
- 10:35 a.m. Molecular markers of CRC in African Americans and Caucasians: Immunity and mutations.** Jovanny Zabaleta, New Orleans, LA
- 10:50 a.m. Ancestry and the DARC-immune response in cancer disparities.** Melissa B. Davis, New York, NY
- 11:05 a.m. Multiomics in disparities research: Identifying African ancestry-specific mechanisms in the triple negative breast cancer tumor microenvironment.**
Rachel Martini, New York, NY
[AACR NextGen Star]
- 11:20 a.m. Panel Discussion**

MONDAY

CME

Major Symposia • 10:15 a.m.–11:45 a.m.

Room W304 A-D, Convention Center

25TH ANNIVERSARY OF TRASTUZUMAB: IMPACT AND FUTURE DIRECTIONS

Chair: H. Michael Shepard, Springfield, OR

- 10:15 a.m. Chair Introduction.** H. Michael Shepard, Springfield, OR
- 10:20 a.m. Development of trastuzumab: A journey through the early days.** Gail D. Lewis, San Francisco, CA
- 10:45 a.m. New approaches to the treatment of HER2-positive breast cancer: Lessons learned.** Dennis J. Slamon, Los Angeles, CA
- 11:10 a.m. Can cellular therapy provide another arrow in the quiver for HER2 positive malignancies?** Gregory I. Frost, West Palm Beach, FL

Room W311 E-H, Convention Center

ADVANCES IN QUANTITATIVE SCIENCES IN CANCER: FROM ATOMIC SCALE TO PATIENTS

Chair: Nagarajan Vaidehi, Duarte, CA

- 10:15 a.m. Chair Introduction.** Nagarajan Vaidehi, Duarte, CA
- 10:20 a.m. Harnessing allosterity and disordered proteins in designing the next generation targeted therapeutics.** Nagarajan Vaidehi, Duarte, CA
- 10:45 a.m. Oncosomes in the early stages of breast cancer.** Peter Kuhn, Los Angeles, CA
- 11:10 a.m. Composing each patient's equation: Unraveling brain tumor complexity by integrating multi-regional image-localized biopsies.** Kristin R. Swanson, Phoenix, AZ

Room W311 A-D, Convention Center

CLONAL HEMATOPOIESIS

Chair: Benjamin L. Ebert, Boston, MA

- 10:15 a.m. Chair Introduction.** Benjamin L. Ebert, Boston, MA
- 10:20 a.m. Determinants of clonal expansion rate in CHIP.** Siddhartha Jaiswal, Stanford, CA
- 10:45 a.m. The bone marrow microenvironment as a driver of clonal hematopoiesis and leukemic transformation.** Jennifer Trowbridge, Bar Harbor, ME
- 11:10 a.m. Clonal hematopoiesis and inflammation.** Benjamin L. Ebert, Boston, MA

MONDAY

Room W224, Convention Center

HISTONE ALTERATIONS AND EPIGENETICS AS CANCER DRIVERS

Chair: Liling Wan, Philadelphia, PA

- 10:15 a.m. Chair Introduction.** Liling Wan, Philadelphia, PA
- 10:20 a.m. Modeling and targeting epigenetic cancer drivers.** Bradley E. Bernstein, Boston, MA
- 10:45 a.m. Oncohistones and disrupted development in diffuse glioma.** Suzanne J. Baker, Memphis, TN
- 11:10 a.m. Reading epigenetic landscape: New mechanisms and therapeutic opportunities.** Liling Wan, Philadelphia, PA

Room W315, Convention Center

Regulatory Science and Policy Session
IMPORTANCE OF OVERALL SURVIVAL IN ASSESSING RISK/BENEFIT: THE PARP AND PI3K INHIBITOR STORIES

Moderator: Mirat Shah, Silver Spring, MD

- Panelists:** Laleh Amiri-Kordestani, Silver Spring, MD
George D. Demetri, Boston, MA
Mallorie Fiero, Silver Spring, MD
Nicole J. Gormley, Silver Spring, MD
Abigail Johnston, Orlando, FL
Nicholas Richardson, Silver Spring, MD
Mikkael A. Sekeres, Miami, FL

Tangerine Ballroom 3-4 (WF3-4), Convention Center

INNATE LYMPHOID CELLS IN CANCER

Chair: Tobias Bald, Bonn, Germany

- 10:15 a.m. Chair Introduction.** Tobias Bald, Bonn, Germany
- 10:20 a.m. Mouse models to study natural killer cells and innate lymphoid cells in cancer.** Tobias Bald, Bonn, Germany
- 10:45 a.m. Human natural killer cell and innate lymphoid cell differentiation in cancer.** Aharon Gideon Freud, Columbus, OH
- 11:10 a.m. Reverse engineering tumor escape to increase persistence of allogeneic iPSC-NK cell therapy.** Karl-Johan Malmberg, Oslo, Norway

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

Room W414, Convention Center
ORGAN SPECIFIC REGULATION OF METASTASIS

Chair: Mikala Egeblad, Cold Spring Harbor, NY

- 10:15 a.m. Chair Introduction.** Mikala Egeblad, Cold Spring Harbor, NY
- 10:20 a.m. Chronic stress causes metastasis via neutrophil-mediated changes to the microenvironment.** Mikala Egeblad, Cold Spring Harbor, NY
- 10:45 a.m. Systemic instigation of neuroinflammation facilitates brain metastasis.**
Neta Erez, Tel Aviv, Israel
- 11:10 a.m. Organ-specific responses to targeted and immunotherapies.**
Erik Sahai, London, United Kingdom

Valencia D, Convention Center
SPATIAL TECHNOLOGIES FOR MAPPING CANCER CELL ARCHITECTURE

Chair: Emma Lundberg, Stanford, CA

- 10:15 a.m. Chair Introduction.** Emma Lundberg, Stanford, CA
- 10:20 a.m. Mapping stromal-immune cellular communities in breast cancer.**
Alexander Swarbrick, Darlinghurst, Australia
- 10:45 a.m. Mapping cellular plasticity in tumor progression and drug resistance.** Itai Yanai, New York, NY
- 11:10 a.m. Mapping the spatiotemporal proteome architecture of human cells.**
Emma Lundberg, Stanford, CA

Valencia A, Convention Center
T CELLS AND THE TUMOR

Chair: Stephanie K. Dougan, Boston, MA

- 10:15 a.m. Chair Introduction.** Stephanie K. Dougan, Boston, MA
- 10:16 a.m. Epigenetic reprogramming of T cell exhaustion: Lessons from chronic viral infection.** Debattama Sen, Cambridge, MA
- 10:36 p.m. Title to be announced.** Nathan Reticker-Flynn, Stanford, CA
- 10:56 a.m. Agonistic anti-CD40 converts regulatory T cells into Type 1 effector cells within the tumor microenvironment.** Katelyn T. Byrne, Portland, OR
[AACR NextGen Star]
- 11:16 a.m. Lowering the TCR signaling threshold with a DGKa/z dual inhibitor potentiates anti-tumor immunity.** Stephanie K. Dougan, Boston, MA
- 11:35 a.m. Panel Discussion**

MONDAY

CME

Special Session • 10:15 a.m.–11:45 a.m.

Tangerine Ballroom 2 (WF2), Convention Center

NEW DRUGS ON THE HORIZON: PART 3

Cochairs: Zoran Rankovic, Memphis, TN; Adrian L. Gill, Redwood City, CA

- 10:15 a.m. Introduction.** Zoran Rankovic, Memphis, TN
- 10:20 a.m. ND09 M3913 induces the maladaptive unfolded protein response through a novel mechanism resulting in strong anti-tumor activity.** Ralph Lindemann, Darmstadt, Germany
- 10:40 a.m. ND10 Discovery of MRT-2359, an orally bioavailable GSPT1 molecular glue degrader, for MYC-driven cancers.** Owen B. Wallace, Boston, MA
- 11:00 a.m. ND11 EO-3021: An antibody drug conjugate targeting CLDN18.2 expressing cancers.** David Dornan, New York, NY
- 11:20 a.m. ND12 TNG260: A novel, orally active, CoREST-selective deacetylase inhibitor for the treatment of STK11-mutant cancers.** Leanne G. Ahronian, Boston, MA
- 11:40 a.m. Closing remarks.** Adrian L. Gill, Redwood City, CA

CME

Clinical Trials Plenary Session • 10:15 a.m.–12:15 p.m.

W Hall A2-3, Convention Center

**PROMISING NOVEL ANTITUMOR STRATEGIES
IN EARLY PHASE CLINICAL TRIALS**

Cochairs: Nilofer S. Azad, Baltimore, MD; Susanna V. Ulahannan, Oklahoma City, OK

Introduction

- 10:15 a.m. CT011 A phase 1 multicenter study (TRAVERSE) evaluating the safety and efficacy of ALLO-316 following conditioning regimen in pts with advanced or metastatic clear cell renal cell carcinoma (ccRCC).** Samer Srour, Houston, TX
- 10:30 a.m. Discussant.** John B.A.G. Haanen, Amsterdam, Netherlands
- 10:40 a.m. Discussion**
- 10:45 a.m. CT012 Clinical activity of MCLA-158 (petosemtamab), an IgG1 bispecific antibody targeting EGFR and LGR5, in advanced head and neck squamous cell cancer (HNSCC).** Ezra E. Cohen, San Diego, CA

- 11:00 a.m. Discussant.** Lillian L. Siu, Toronto, ON, Canada
- 11:10 a.m. Discussion**
- 11:15 a.m. CT013 Safety and efficacy from the phase 1/2 first-in-human study of REGN5459, a BCMA×CD3 bispecific antibody with low CD3 affinity, in patients with relapsed/refractory multiple myeloma.** Attaya Suvannasankha, Indianapolis, IN
- 11:30 a.m. Discussant.** Kenneth C. Anderson, Boston, MA
- 11:40 a.m. Discussion**
- 11:45 a.m. CT014 Phase I dose-escalation study of fractionated dose 225Ac J591 for metastatic castration resistant prostate cancer.** Jones T. Nauseef, New York, NY
- 12:00 p.m. Discussant.** Howard I. Scher, New York, NY
- 12:10 p.m. Discussion**

Meet and Greet • 11:30 a.m.–12:30 p.m.

NOT ELIGIBLE FOR CME CREDIT

Publications Booth 2743, W Halls B-E1
**MEET THE EDITOR-IN-CHIEF OF
MOLECULAR CANCER RESEARCH: MASSIMO LODA, MD**

CME **Major Symposium • 11:45 a.m.–1:00 p.m.**

Chapin Theater, Convention Center
PRESIDENTIAL SELECT SYMPOSIUM: PREGNANCY AND CANCER

Chair: Ann H. Partridge, Boston, MA

- 11:45 a.m. Introductory Remarks from AACR President.** Lisa M. Coussens, Portland, OR
- 11:48 a.m. Chair Introduction.** Ann H. Partridge, Boston, MA
- 11:50 a.m. A patient-centered, evidence-based approach to cancer during pregnancy.**
Ann H. Partridge, Boston, MA
- 12:05 p.m. The importance of reproductive rights for pregnant women facing cancer:
Difficult choices at a difficult time.** Virginia F. Borges, Denver, CO
- 12:20 p.m. Helping patients with hematologic malignancies manage issues of fertility
preservation and pregnancy.** Brandon M. Hayes-Lattin, Portland, OR
- 12:35 p.m. Panel Discussion**
Ann H. Partridge, Boston, MA
Virginia F. Borges, Denver, CO
Brandon M. Hayes-Lattin, Portland, OR
Julia Maues, Baltimore, MD

Meet and Greet • 12:30 p.m.–1:30 p.m.

NOT ELIGIBLE FOR CME CREDIT

Publications Booth 2743, W Halls B-E1
MEET THE EDITORS-IN-CHIEF OF *BLOOD CANCER DISCOVERY*:
RICCARDO DALLA-FAVERA, MD AND KENNETH C. ANDERSON, MD

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

NCI-NIH-Sponsored Session • 12:30 p.m.–1:30 p.m.

NOT ELIGIBLE FOR CME CREDIT

Room W330, Convention Center

**YOU CAN CHOOSE BOTH: STRATEGIES FOR COMPANIES SEEKING BOTH
NCI PARTNERSHIP AND FUNDING OPPORTUNITIES FOR TECHNOLOGY
DEVELOPMENT AND COMMERCIALIZATION**

Moderator: Michael Salgaller, Bethesda, MD

Presenters: Michael Pollack, Bethesda, MD

Patricia Weber, Bethesda, MD

Lauren V. Wood, Bethesda, MD

**CME Advances in Diagnostics and Therapeutics
12:30 p.m.–2:00 p.m.**

Room W414, Convention Center

MULTIOMICS IN DIAGNOSIS AND CARE MANAGEMENT

Chair: Raza Ali, London, United Kingdom

- 12:30 p.m. Chair Introduction.** Raza Ali, London, United Kingdom
- 12:35 p.m. Multi-omic approaches to study the role of plasticity in therapy resistance and metastasis in lung cancer.** Alvaro Quintanal-Villalonga, New York, NY [AACR NextGen Star]
- 1:15 p.m. Deciphering cancer evolution and ecology and their association with cancer prognosis.** Wenyi Wang, Houston, TX
- 12:55 p.m. Highly-multiplexed imaging for precision immuno-oncology in breast cancer.** Raza Ali, London, United Kingdom
- 1:35 p.m. Circulating tumor DNA analysis for detection and molecular characterization of cancers.** Maximilian Diehn, Stanford, CA

CME **Advances in Organ Site Research • 12:30 p.m.–2:00 p.m.**

Room W311 E-H, Convention Center

ALTERNATIVE STRATEGIES TO TRADITIONAL CHEMOTHERAPY TO TREAT ACUTE LEUKEMIA

Chair: David N. Wald, Cleveland, OH

- 12:30 p.m. Chair Introduction.** David N. Wald, Cleveland, OH
- 12:35 p.m. AML differentiation therapy.** David N. Wald, Cleveland, OH
- 12:55 p.m. Targeting apoptosis in leukemia: Lessons and challenges.** Marina Y. Konopleva, Houston, TX
- 1:25 p.m. Dissecting immune microenvironment of T-cell acute lymphoblastic leukemia.** Anastasia Tikhonova, Toronto, ON, Canada [AACR NextGen Star]
- 1:10 p.m. Training NK cells for enhanced cellular therapy of leukemia.** Todd A. Fehniger, St. Louis, MO

Room W311 A-D, Convention Center

SMALL CELL LUNG CANCER: MOVING BIOLOGY TO THE CLINIC

Chair: Taofeek Kunle Owonikoko, Pittsburgh, PA

- 12:30 p.m. Chair Introduction.** Taofeek Kunle Owonikoko, Pittsburgh, PA
- 12:35 p.m. Putting SCLC in context using emerging clinical and translational insights.** Taofeek Kunle Owonikoko, Pittsburgh, PA
- 1:00 p.m. Measuring and modulating SCLC transcriptional heterogeneity from murine models to clinical trials.** Joseph Hiatt, Seattle, WA
- 1:25 p.m. Understanding SCLC biology and plasticity to define therapeutic vulnerabilities.** Alvaro Quintanal-Villalonga, New York, NY

Advances in Population Sciences • 12:30 p.m.–2:00 p.m.

Room W304 E-H, Convention Center

POPULATION SCIENCES IN THE ERA OF OMICS

Chair: Andrew T. Chan, Boston, MA

- 12:35 p.m. Interrogating cancer risk with germline genetics and other multi-omic data.** Burcu F. Darst, Seattle, WA
- 1:00 p.m. Surveying non-malignant tissues to identify genomic markers of risk.** Paul A. Scheet, Houston, TX
- 1:25 p.m. Leveraging omic data to bridge association to causation.** Andrew T. Chan, Boston, MA

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CME

Advances in Prevention Research • 12:30 p.m.–2:00 p.m.

Tangerine Ballroom 3-4 (WF3-4), Convention Center

DIAGNOSIS AND MANAGEMENT OF HEREDITARY CANCERS

Chair: Violeta Serra Elizalde, Barcelona, Spain

- 12:35 p.m.** **Personalized cancer surveillance, immunotherapy, and immunoprevention in Lynch syndrome.** Matthew Yurgelun, Boston, MA
- 1:00 p.m.** **Prostate cancer genetic testing and management of genetic carriers.** Kara N. Maxwell, Philadelphia, PA
- 1:25 p.m.** **Using functional HRD to identify PARP inhibitor sensitive tumors.** Violeta Serra Elizalde, Barcelona, Spain

CME

Advances in the Science of Cancer Disparities 12:30 p.m.–2:00 p.m.

Tangerine Ballroom 1 (WF1), Convention Center

NOVEL APPROACHES TO PERSONALIZED CANCER HEALTH EQUITY

Chair: John H. Stewart, New Orleans, LA

- 12:35 p.m.** **Cancer health equity in 2023: Now is the time for a personalized approach.** John H. Stewart, New Orleans, LA
- 1:00 p.m.** **Harnessing the power of authentic community engagement to overcome the cancer inequity conundrum.** Charles R. Rogers, Milwaukee, WI
- 1:25 p.m.** **Strategies for equitable access to cancer clinical trials.** Carmen E. Guerra, Philadelphia, PA

CME

Major Symposia • 12:30 p.m.–2:00 p.m.

Room W224, Convention Center

AACR-BAYARD D. CLARKSON SYMPOSIUM ON CANCER AND METASTATIC STEM CELLS: RESISTANCE TO THERAPY AND IMMUNE EVASION

Chair: Judith Agudo, Boston, MA

- 12:30 p.m.** **Chair Introduction.** Judith Agudo, Boston, MA
- 12:35 p.m.** **Progressive plasticity during colorectal cancer metastasis.** Karuna Ganesh, New York, NY
- 1:00 p.m.** **Mechanisms regulating tumor transition states.** Cedric Blanpain, Bruxelles, Belgium
- 1:25 p.m.** **Dissecting mechanisms of escape from T cell attack in cancer stem cells.** Judith Agudo, Boston, MA

MONDAY

Valencia BC, Convention Center
IMMUNOMETABOLISM AND THE TUMOR MICROENVIRONMENT

- Chair:** Greg M. Delgoffe, Pittsburgh, PA
- 12:30 p.m. Chair Introduction.** Greg M. Delgoffe, Pittsburgh, PA
- 12:35 p.m. Targeting glutamine in immune-suppressive tumor associated macrophages to overcome tumor immunity in mCRPC.** Jelani C. Zarif, Baltimore, MD
- 1:00 p.m. Dissecting the role of metabolites in the tumor microenvironment.** Marcia Haigis, Boston, MA
- 1:25 p.m. Leveraging metabolism to improve cancer immunotherapy.** Greg M. Delgoffe, Pittsburgh, PA

Room W315, Convention Center
Regulatory Science and Policy Session
IMPLEMENTING DIVERSITY ACTION PLANS FOR CLINICAL TRIALS

- Moderator:** Lola A. Fashoyin-Aje, Silver Spring, MD
- Opening Remarks:** Jon G. Retzlaff, Washington, DC
- Panelists:** Sandra Amaro, Groton, CT
Chitkala Kalidas, Whippany, NJ
Bea Lavery, San Francisco, CA
Craig L. Tendler, Raritan, NJ

Valencia D, Convention Center
MOLECULAR MECHANISMS OF KRAS PATHWAY INHIBITORS

- Chair:** Ryan B. Corcoran, Boston, MA
- 12:30 p.m. Chair Introduction.** Ryan B. Corcoran, Boston, MA
- 12:35 p.m. Progress on development of KRAS allele-specific inhibitors and contribution of cell autonomous and pro-immunogenic activity to anti-tumor activity.** James G. Christensen, San Diego, CA
- 1:00 p.m. Targeting KRAS for pancreatic cancer treatment.** Channing J. Der, Chapel Hill, NC
- 1:25 p.m. Overcoming resistance to KRAS inhibition.** Ryan B. Corcoran, Boston, MA

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Tangerine Ballroom 2 (WF2), Convention Center

NEW HORIZONS FOR T CELL IMMUNITY AND CHECKPOINTS

Chair: Mary Jo Turk, Lebanon, NH

12:30 p.m. Chair Introduction. Mary Jo Turk, Lebanon, NH

12:35 p.m. A structural blueprint for understanding LAG3 agonism and antagonism.
Vince Luca, Tampa, FL

1:00 p.m. IFN addiction in cancer immunotherapy. Weiping Zou, Ann Arbor, MI

1:25 p.m. Resident memory T cells in tissue-localized immunity to cancer. Mary Jo Turk, Lebanon, NH

Room W304 A-D, Convention Center

RADIATION THERAPY, DNA DAMAGE, AND IMMUNE RESPONSE

Chair: Quynh-Thu Le, Palo Alto, CA

12:30 p.m. Chair Introduction. Quynh-Thu Le, Palo Alto, CA

12:35 p.m. Determinants of hypoxia in pancreatic cancer and identification of ULK1 as a potential therapeutic target. Bradly G. Wouters, Toronto, ON, Canada

1:00 p.m. Targeting galectin-1 with radiation therapy. Quynh-Thu Le, Palo Alto, CA

1:25 p.m. Exploiting DNA damage response pathways to stimulate immunotherapy response in glioma. Ranjit S. Bindra, New Haven, CT

Valencia A, Convention Center

UNDERSTANDING AND INTERCEPTING TUMOR INTRINSIC AND EXTRINSIC MECHANISMS OF DRUG RESISTANCE

Chair: Valsamo K. Anagnostou, Baltimore, MD

12:30 p.m. Chair Introduction. Valsamo K. Anagnostou, Baltimore, MD

12:35 p.m. Genomic landscape of response and resistance to immune checkpoint blockade. Valsamo K. Anagnostou, Baltimore, MD

1:00 p.m. Polymerase theta inhibition: A multifaceted strategy to reverse PARP inhibitor and immunotherapy resistance in homologous recombination-repair deficient cancers. Geoffrey I. Shapiro, Boston, MA

1:25 p.m. Overcoming PARP inhibitor resistance through rational combinations in the clinic. Timothy A. Yap, Houston, TX

Special Session • 1:15 p.m.–2:30 p.m.

NOT ELIGIBLE FOR CME CREDIT

Room W 314A, Convention Center

AACR ANNUAL BUSINESS MEETING OF MEMBERS

AACR Chief Executive Officer: Margaret Foti, Philadelphia, PA

AACR President: Lisa M. Coussens, Portland, OR

AACR President-Elect: Philip D. Greenberg, Seattle, WA

AACR Immediate Past President: David A. Tuveson, Cold Spring Harbor, NY

AACR Treasurer: William N. Hait, New Brunswick, NJ

Meet and Greet • 1:30 p.m.–2:30 p.m.

NOT ELIGIBLE FOR CME CREDIT

Publications Booth 2743, W Halls B-E1

MEET THE EDITOR-IN-CHIEF OF *CLINICAL CANCER RESEARCH*:
KEITH T. FLAHERTY, MD

Poster Sessions • 1:30 p.m.–5:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

W Halls B-E1, Convention Center

Complete titles and author listings for abstracts in the poster sessions are available in the online Itinerary Planner and the Annual Meeting App.

TUMOR BIOLOGY

- Section 1 Fibrosis, the Extracellular Matrix, and Therapeutic Impact on Cancer Progression
- Section 2 Photoacoustic, Ultrasound, and Fluorescence Imaging
- Section 3 Radiation Sciences
- Section 4 Regulation of Stemness: Transformation, Differentiation, and Plasticity
- Section 5 Translational Metastasis Research
- Section 6 Tumor-Host Interactions and Disease Progression
- Section 36 Late-Breaking Research: Tumor Biology 1

MOLECULAR/CELLULAR BIOLOGY AND GENETICS

- Section 7 Apoptosis and Bcl-2 Family Members
- Section 8 Kinase Signaling
- Section 9 Oncogene and Tumor Suppressor Signaling in Cancer 1
- Section 10 Oncogene and Tumor Suppressor Signaling in Cancer 2
- Section 11 Ras-related Signaling

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EXPERIMENTAL AND MOLECULAR THERAPEUTICS

- Section 13 Antibody Technologies
- Section 14 Chemotherapeutic Combinations
- Section 15 Drug Delivery Systems
- Section 16 Gene and Vector-based Therapy
- Section 17 Innovative Assay Technologies
- Section 18 Pharmacokinetics, Pharmacodynamics, and Molecular Pharmacology
- Section 19 Radiosensitizers and Radio-immunomodulators
- Section 20 Strategies for Reversal of Drug Resistance

IMMUNOLOGY

- Section 21 Cancer-associated Immunosuppression
- Section 22 Natural Killer and Natural Killer T Cell-based Cellular Therapies
- Section 23 Therapeutic Antibodies 2
- Section 24 Therapeutic Antibodies 3
- Section 25 Tumor Antigens and Antigen Presentation

SURVIVORSHIP

- Section 26 Advocates Poster Session 1

POPULATION SCIENCES

- Section 27 Aging, Immune Factors, and Metabolomics
- Section 35 Late-Breaking Research: Population Sciences

PREVENTION / EARLY DETECTION / INTERCEPTION

- Section 28 Biological and Behavioral Factors in Cancer Surveillance, Prevention, and Survivorship

ENDOCRINOLOGY

- Section 29 Endocrine-related Cancers: Treatment Resistance and Novel Targets and Therapeutics
- Section 34 Late-Breaking Research: Clinical Research 1 / Endocrinology

CHEMISTRY

- Section 31 Targeted Drug Design and Development for Cancer Therapy

BIOINFORMATICS / COMPUTATIONAL BIOLOGY / SYSTEMS BIOLOGY / CONVERGENT SCIENCE

- Section 32 Bioinformatics Applications in Cancer Biology 2
Section 33 Integrative Computational Approaches and Analyses

CLINICAL RESEARCH EXCLUDING TRIALS

- Section 34 Late-Breaking Research: Clinical Research 1 / Endocrinology
Section 37 Adoptive Cell Therapy 2
Section 38 Cancer Outcomes 1
Section 39 Combination Immunotherapies 1
Section 40 Combination Immunotherapies 2
Section 41 Diagnostic and Prognostic Biomarkers 3
Section 42 Early Detection Biomarkers
Section 43 Liquid Biopsies: Circulating Nucleic Acids and Circulating Tumor Cells 3
Section 44 Molecular Targeted Therapies 1

CLINICAL TRIALS

- Section 45 First-in-Human Phase I Clinical Trials 1
Section 46 Phase I Clinical Trials in Progress
Section 47 Phase II Clinical Trials 1

Meet and Greet • 2:30 p.m.–3:15 p.m.

NOT ELIGIBLE FOR CME CREDIT

AACR Central, W Halls B-E1

MEET THE RESEARCH GRANT REVIEWERS

2:30 p.m. AACR Grant Reviewer. James V. DeGregori, Aurora, CO

CME Major Symposium • 2:30 p.m.–4:00 p.m.

Room W330, Convention Center

Science Policy Session

**FDA CENTER FOR TOBACCO PRODUCTS' PRIORITIES
TO ADDRESS TOBACCO USE AND SUPPORT THE CANCER MOONSHOT**

Moderators: Christine M. Lovly, Nashville, TN
Suchitra Krishnan-Sarin, New Haven, CT

Speaker: Brian A. King, Silver Spring, MD

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Room W315, Convention Center

Regulatory Science and Policy Session

USING REAL-WORLD EVIDENCE TO ADVANCE PEDIATRIC CANCER DRUG DEVELOPMENT

Cochairs: Katherine A. Janeway, Boston, MA; E. Alejandro Sweet-Cordero, San Francisco, CA

2:50 p.m. Introduction. Martha Donoghue, Silver Spring, MD

Additional speakers to be announced

CME

Clinical Trials Minisymposium • 2:30 p.m.–4:30 p.m.

Chapin Theater, Convention Center

TARGETING THE KRAS PATHWAY IN THE CLINIC

Cochairs: Trevor G. Bivona, San Francisco, CA; Natalie Ngoi, Singapore

2:30 p.m. Introduction

2:35 p.m. Discussant. Ryan B. Corcoran, Boston, MA

2:50 p.m. 2CT028 A first-in-human phase 1 study of LY3537982, a highly selective and potent KRAS G12C inhibitor in patients with KRAS G12C-mutant advanced solid tumors. Yonina R. Murciano-Goroff, New York, NY

3:05 p.m. CT029 Phase Ib study of GDC-6036 in combination with cetuximab in patients with colorectal cancer (CRC) with KRAS G12C mutation. Jayesh Desai, Melbourne, Australia

3:20 p.m. CT030 Phase I study of IBI351 (GFH925) monotherapy in patients with advanced solid tumors: Updated results of the phase I study. Qing Zhou, Guangzhou, China

3:35 p.m. CT031 A first-in-human, phase 1a/1b, open-label, dose-escalation and expansion study to investigate the safety, pharmacokinetics, and antitumor activity of the RAF dimer inhibitor BGB-3245 in patients with advanced or refractory tumors. Alison M. Schram, New York, NY

3:50 p.m. CT032 Trials in progress: a global phase 1/1b clinical trial evaluating exarafenib (KIN-2787), a highly selective pan-RAF inhibitor, in adult patients with BRAF-altered solid tumors and NRAS mutant melanoma. Alexander Spira, Fairfax, VA

4:05 p.m. CT033 Safety, pharmacokinetics, and antitumor activity findings from a phase 1b, open-label, dose-escalation and expansion study investigating RAF dimer inhibitor lifirafenib in combination with MEK inhibitor mirdametinib in patients with advanced or refractory solid tumors. Benjamin Solomon, East Melbourne, Australia

4:20 p.m. Closing remarks

MONDAY

CME **Late-Breaking Minisymposium • 2:30 p.m.–4:30 p.m.**

Room W307, Convention Center

MINISYMPOSIUM: LATE-BREAKING RESEARCH

Chair: Robert H. Vonderheide, Philadelphia, PA

2:30 p.m. Introduction

2:35 p.m. LB357 CRISPR-Cas9 targeting of somatic mutations selectively kills cancer cells. Kirsten Bowland, Baltimore, MD

2:50 p.m. LB358 Efficacy of a functional precision medicine approach in relapsed/refractory pediatric cancer patients: Results from a prospective clinical study. Diana J. Azzam, Miami, FL

3:05 p.m. LB360 Type-1 interferon sensing is critical for CD8+ resident memory (TRM) cell generation in tumor-draining lymph nodes. Nikhil Khatwani, Lebanon, NH

3:20 p.m. LB361 Li-Fraumeni syndrome-associated dimer-forming mutant p53 promotes transactivation-independent mitochondrial cell death. Joshua H. Choe, New York, NY

3:35 p.m. LB362 Epigenome-wide DNA methylation alterations precede diagnosis since birth and affect prognosis of pediatric B-cell acute lymphoblastic leukemia. Zdenko Herceg, Lyon, France

3:50 p.m. LB363 Patient-derived iPSCs faithfully represent the genetic diversity and cellular architecture of human acute myeloid leukemia. Eirini Papapetrou, New York, NY

4:05 p.m. 3520 Single cell-derived spheroids capture functional and genetic heterogeneity of head and neck cancer. Rana P. Singh, New Delhi, India

4:20 p.m. Closing remarks

CME **Minisymposia • 2:30 p.m.–4:30 p.m.**

Room W224, Convention Center

Chemistry

**NEW TARGETED PROTEIN DEGRADERS:
DISCOVERY AND NOVEL DESIGN STRATEGIES**

Cochairs: Qiming Jane Wang, Pittsburgh, PA; Zoran Rankovic, Memphis, TN

2:30 p.m. Introduction

2:35 p.m. 3423 NX-2127: A first-in-class clinical stage degrader of BTK and IKZF1/3 for the treatment of patients with B cell malignancies. Jeffrey T. Mihalic, San Francisco, CA

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

- 2:50 p.m. 3424 Template-assisted covalent modification of DCAF16 enables BRD4 molecular glue degraders.** Yen-Der Li, Cambridge, MA
- 3:05 p.m. 3425 The discovery and characterization of CFT1946: A potent, selective, and orally bioavailable degrader of mutant BRAF for the treatment of BRAF-driven cancers.** Yanke Liang, Watertown, MA
- 3:20 p.m. 3426 Catalytic degraders effectively address kinase site mutations in EML-ALK oncogenic fusions.** Jianwei Che, Boston, MA
- 3:35 p.m. 3427 ICP-490 is a highly potent and selective IKZF1/3 degrader with robust anti-tumor activities against multiple myeloma and non-Hodgkin's lymphoma.** Davy Xuesong Ouyang, Beijing, China
- 3:50 p.m. 3428 Discovery of a highly potent and selective dual PROTAC degrader of CDK12 and CDK13.** Yu Chang, Ann Arbor, MI
- 4:05 p.m. 3429 Beyond cereblon IMiDs - biophysics-based discovery of novel molecular glue chemotypes.** Roland Hjerpe, Nottingham, United Kingdom
- 4:20 p.m. Closing remarks**

Room W414, Convention Center

Clinical Research Excluding Trials

BIOMARKERS OF RESPONSE IN NOVEL MOLECULAR THERAPEUTICS

Cochairs: Nilofer S. Azad, Baltimore, MD; Rona Yaeger, New York, NY

- 2:30 p.m. Introduction**
- 2:35 p.m. 3431 Molecular determinants of KRAS p.G12C inhibitor efficacy in advanced NSCLC.** Ferdinandos Skoulidis, Houston, TX
- 2:50 p.m. 3432 Ataxia-telangiectasia mutated loss of function displays variant and tissue specific differences across tumor types.** Patrick G. Pilie, Houston, TX
- 3:05 p.m. 3433 Global proteomic analysis of urine using a label-free LC-MS/MS approach identifies potential biomarkers of metastatic breast cancer.** Roopali Roy, Boston, MA
- 3:20 p.m. 3434 Selective glucocorticoid receptor modulation reveals a new role for CLEC10A in patients with solid tumors.** Erkut H. Borazanci, Scottsdale, AZ
- 3:35 p.m. 3435 Identification of potential biomarkers of response to OMO-103, a first-in-modality pan-MYC inhibitor, in patients with advanced solid tumors.** Laura Soucek, Barcelona, Spain
- 3:50 p.m. 3436 Reduced p63 expression is linked to a low density of regulatory T-cells and unfavorable prognosis in muscle-invasive urothelial carcinoma of the bladder.** Elena Bady, Hamburg, Germany
- 4:05 p.m. 3437 Whole genome and transcriptome sequencing of a pan-cancer cohort unearths novel therapeutic avenues.** Majd Al Assaad, New York, NY
- 4:20 p.m. Closing remarks**

Room W311 E-H, Convention Center

Endocrinology

NUCLEAR RECEPTORS AND ENDOCRINE RELATED CANCERS: NEW INSIGHTS INTO TREATMENT RESISTANCE AND THERAPEUTICS DEVELOPMENT

Cochairs: Rachel Schiff, Houston, TX; Clodia Osipo, Maywood, IL

- 2:30 p.m. Introduction
- 2:35 p.m. 3439 Evaluating nuclear receptor heterodimerization using live cell proximity assays: Implications for novel therapeutic approaches for hormone driven cancers. Amira Ishag-Osman, Boston, MA
- 2:50 p.m. 3440 Targeting the mutant estrogen receptor in metastatic breast cancer. Karla Parra, Dallas, TX
- 3:05 p.m. 3441 A multivalent peptoid conjugate that inhibits therapy-resistant prostate cancer cell proliferation by modulating androgen receptor transcriptional activity. Justine Habault, New York, NY
- 3:20 p.m. 3442 FXR mediates macrophage intrinsic responses to suppress colon cancer progression. Ting Fu, Madison, WI
- 3:35 p.m. 3443 Aryl hydrocarbon receptor and its ligands influence the formation of colonic tertiary lymphoid tissues. Kimberly F. Allred, Greensboro, NC
- 3:50 p.m. 3444 Role of AKR1C3 in converting reservoirs of DHEA-S into potent androgens that drive prostate cancer cell growth. Andrea J. Detlefsen, Philadelphia, PA
- 4:05 p.m. 3445 Immune cells infiltration and activation are higher in breast cancers resistant to antiestrogen therapy. Fabiana Napolitano, Dallas, TX
- 4:20 p.m. Closing remarks

Room W331, Convention Center

Experimental and Molecular Therapeutics

NOVEL ANTITUMOR AGENTS AND TARGETS

Cochairs: Jan H. Beumer, Pittsburgh, PA; Ganesh V. Raj, Dallas, TX

- 2:30 p.m. Introduction
- 2:35 p.m. 3447 NOS inhibition reverses epithelial-to-mesenchymal transition and synergizes with alpelisib in metaplastic breast cancer. Tejaswini P. Reddy, Houston, TX
- 2:50 p.m. 3448 Discovery of HYP-2A, a 2nd-generation KRASG12C inhibitor exhibits potent in vivo efficacy in drug resistant tumor models. Shoujun Chen, Chengdu, China

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- 3:05 p.m. 3449 Development of MRT-2359, an orally bioavailable GSPT1 molecular glue degrader, for the treatment of lung cancers with MYC-induced translational addiction.** Gerald Gavory, Basel, Switzerland
- 3:20 p.m. 3450 Discovery and preclinical study of novel BTK degrader HZ-Q1070.** Xingguo Liu, Hangzhou, China
- 3:35 p.m. 3451 XS-04: A first-in-class dual IRAK4/BTK inhibitor for the treatment of hematological malignancies.** Xiaohong Yu, Shanghai, China
- 3:50 p.m. 3452 TNG908, a brain-penetrant MTA-cooperative PRMT5 inhibitor, is efficacious in preclinical glioblastoma models.** Minjie Zhang, Boston, MA
- 4:05 p.m. 3453 First disclosure of a highly potent and selective HPK1 inhibitor that rescues T cell exhaustion.** Deanna A. Mele, Waltham, MA
- 4:20 p.m. Closing remarks**

Valencia BC, Convention Center

Experimental and Molecular Therapeutics

OVERCOMING RESISTANCE SECONDARY TO GENOMIC ALTERATIONS AND TUMOR HETEROGENEITY WITH NOVEL STRATEGIES AND COMBINATORIAL APPROACHES

Cochairs: James M. Cleary, Boston, MA; Daniela E. Matei, Chicago, IL

- 2:30 p.m. Introduction**
- 2:35 p.m. 3455 Transcriptional and phenotypic heterogeneity underpinning venetoclax resistance.** Vakul Mohanty, Houston, TX
- 2:50 p.m. 3456 Synergistic drug combinations promote the development of resistance in acute myeloid leukemia.** Emily Mason-Osann, Waltham, MA
- 3:05 p.m. 3457 Characterization of acquired resistance mutations to menin inhibitors.** Florian Perner, Boston, MA
- 3:20 p.m. 3458 Resistance to selective FGFR inhibitors in FGFR-driven urothelial cancer.** Francesco Facchinetti, Paris, France
- 3:35 p.m. 3459 Drug persistence pathways in ovarian cancer identified by single-cell analysis of patient samples and cell line models.** Elizaveta Leshchiner, Cambridge, MA
- 3:50 p.m. 3460 Targeting the MIF-CD74 axis to overcome resistance to tyrosine kinase inhibitors in non-small cell lung cancer.** Motohiro Izumi, Boston, MA
- 4:05 p.m. 3461 Preclinical and clinical evaluation of the RAF/MEK clamp avutometinib (VS-6766) in combination with the mTOR inhibitor everolimus for the treatment of KRAS mutated non-small cell lung cancer.** Udai Banerji, London, United Kingdom
- 4:20 p.m. Closing remarks**

Valencia A, Convention Center

Immunology

FROM CANCER IMMUNOLOGY TO IMMUNOTHERAPY

Cochairs: Taha Merghoub, New York, NY; Ignacio Melero, Pamplona, Spain

- 2:30 p.m. Introduction**
- 2:35 p.m. 3463 Longitudinal microbiome-immune dynamics in melanoma patients treated with immune checkpoint inhibitor immunotherapy.** Rebecca C. Simpson, Sydney, Australia
- 2:50 p.m. 3464 Dynamics of resident memory (Trm) cell responses between skin and draining lymph nodes during primary and recall responses to melanoma.** Cameron Messier, Hanover, NH
- 3:05 p.m. 3465 HDAC8 regulates immune escape in melanoma through increased transcription of inhibitory cytokines that increase accumulation of myeloid-derived suppressor cells (MDSCs).** Chao Zhang, Tampa, FL
- 3:20 p.m. 3466 Microbial neoantigen vectors for cancer immunotherapy.** Nicholas Arpaia, New York, NY
- 3:35 p.m. 3467 GRWD5769: A first-in-class inhibitor of ERAP1, generating novel cancer antigens to drive de novo anti-tumor T cell responses.** Peter I. Joyce, Oxford, United Kingdom
- 3:50 p.m. 3468 Immunoproteasome expression and checkpoint blockade response in advanced non-small cell lung cancer.** Vivek Naranbhai, Boston, MA
- 4:05 p.m. 3469 Lymph node colonization promotes distant tumor metastasis through the induction of tumor-specific immune tolerance.** Nathan E. Reticker-Flynn, Stanford, CA
- 4:20 p.m. Closing remarks**

Valencia D, Convention Center

Immunology

IMMUNE CHECKPOINTS AT TUMOR BEDS

Cochairs: Jonathan Villena-Vargas, New York, NY; Ingunn M. Stromnes, Minneapolis, MN

- 2:30 p.m. Introduction**
- 2:35 p.m. 3471 A function-based high-throughput discovery platform, myeloid iOTarg, identifies novel immune checkpoints of the tumor microenvironment.** Tillmann Michels, Martinsried/Munich, Germany
- 2:50 p.m. 3472 A tumor draining lymph node CD8 T cell memory response is pivotal for a decrease in recurrence after neoadjuvant anti PD-1 therapy for NSCLC.** Tatiana Delgado Cruz, New York, NY
- 3:05 p.m. 3473 High throughput screening of combination therapies to improve response to checkpoint inhibitors in solid tumors using a myelomonocytic and T cell co-culture assay.** Sushil Kumar, Portland, OR

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- 3:20 p.m. 3474 Identification of the selective CBL-b inhibitors which effectively prevent T cells from exhaustion and demonstrate synergistic anti-tumor activity in combination with an anti-PD1 antibody.** Renhong Tang, Nanjing, China
- 3:35 p.m. 3475 RMC-9805, a first-in-class, mutant-selective, covalent and orally bioavailable KRASG12D(ON) inhibitor, promotes cancer-associated neoantigen recognition and synergizes with immunotherapy in preclinical models.** Marie J. Menard, Redwood City, CA
- 3:50 p.m. 3476 TAK-243 increases tumor immunogenicity enhancing systemic anti-tumor immune response and tumor regression in combination with immune checkpoint inhibition in a syngeneic model of lymphoma.** Richard Klinghoffer, Seattle, WA
- 4:05 p.m. 3477 Maximizing the outcome of CD226 stimulation through targeting beyond TIGIT signaling with combination and multi-specific approaches for cancer immunotherapy.** Tom Li Stephen, Cambridge, MA
- 4:20 p.m. Closing remarks**

Tangerine Ballroom 3-4 (WF3-4), Convention Center

Molecular/Cellular Biology and Genetics

EPIGENETICS MECHANISMS IN CANCER

Cochairs: Eneda Toska, Baltimore, MD; Ellen L. Goode, Rochester, MN

- 2:30 p.m. Introduction**
- 2:35 p.m. 3481 A local tumor microenvironment acquired super-enhancer induces an oncogenic driver in colorectal carcinoma.** Royce Zhou, New York, NY
- 2:50 p.m. 3479 Modeling epigenetic lesions that cause gliomas.** Gilbert J. Rahme, Boston, MA
- 3:05 p.m. 3480 Modulating DNA and histone methylation as a therapeutic target for non-small cell lung cancer by shifting the composition of immune cells.** Ying-Yu Chen, Baltimore, MD
- 3:20 p.m. 3482 METTL3-mediated m6A modification controls splicing factor abundance and contributes to CLL progression.** Yiming Wu, Monrovia, CA
- 3:35 p.m. 3483 Epigenome-wide association study of lung cancer among never-smokers in two prospective cohorts in Shanghai.** Mohammad L. Rahman, Rockville, MD
- 3:50 p.m. 3484 Oncohistone H2B-E76K alters gene expression & cellular phenotype in a bronchial epithelial cell line.** Kimberly Espinoza Pereira, Gainesville, FL
- 4:05 p.m. 3485 Intrinsically disordered regions of the ARID1A/B tumor suppressors encode an interaction network within biomolecular condensates that directs mSWI/SNF chromatin remodeler complex activity.** Ajinkya Patil, Boston, MA
- 4:20 p.m. Closing remarks**

Room W304 E-H, Convention Center
Molecular/Cellular Biology and Genetics
TYROSINE KINASE AND RAS SIGNALING

Cochairs: David D. Schlaepfer, La Jolla, CA; Donita C. Brady, Philadelphia, PA

- 2:30 p.m. Introduction**
- 2:35 p.m. 3487 An atlas of substrate specificities for the human tyrosine kinome.**
Jared L. Johnson, New York, NY
- 2:50 p.m. 3488 Truncated FGFR2 - a clinically actionable oncogene in multiple cancers.** Daniel Kaspar Zingg, Amsterdam, Netherlands
- 3:05 p.m. 3489 TNK1 is a ubiquitin sensing kinase that can be targeted in vivo to block tumor growth.** Joshua Lyon Andersen, Provo, UT
- 3:20 p.m. 3490 IGFBP1 mediates musculoskeletal defects in colorectal cancer.**
Andrea Bonetto, Aurora, CO
- 3:35 p.m. 3491 Designed sensors reveal normal and oncogenic Ras signaling in endomembranes and condensates.** Jason Z. Zhang, Seattle, WA
- 3:50 p.m. 3492 The small GTPase ARF6 augments BRAFV600E-MAPK signaling in melanomagenesis.** Allie Grossmann, Salt Lake City, UT
- 4:05 p.m. 3493 Drug targeting of KRAS accumulation on the cilium inhibits its stemness driving activity.** Daniel Abankwa, Esch-sur-Alzette, Luxembourg
- 4:20 p.m. Closing remarks**

Room W304 A-D, Convention Center
Multidisciplinary
MOLECULAR PATHWAY DISCOVERY AND TRANSLATION IN SOLID TUMORS

Chair: John L. Cleveland, Tampa, FL

- 2:30 p.m. Introduction.** John L. Cleveland, Tampa, FL
- 2:35 p.m. 3495 A kinome-wide CRISPR screen identifies CK1 α as a novel target to overcome enzalutamide resistance of prostate cancer.** Jinghui Liu, Lexington, KY
- 2:50 p.m. 3496 p53 mutation biases SCJ progenitor cells towards dysplasia rather than metaplasia in Barrett's esophagus.** Guodong Lian, New York, NY
- 3:05 p.m. 3497 The polyclonal path to malignant transformation in familial adenomatous polyposis.** Ryan O. Schenck, Palo Alto, CA
- 3:20 p.m. 3498 GTP-dependent signaling links metabolism, non-homologous end joining and treatment responses in cancer and normal tissues.** Weihua Zhou, Ann Arbor, MI

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- 3:35p.m. 3499 Inhibition of SOS1 by MRTX0902 augments the anti-tumor response of the targeted EGFR inhibitor osimertinib in NSCLC.** Shilpi Khare, San Diego, CA
- 3:50 p.m. 3500 A noncatalytic role for mettl1 in oncogenic translation in soft tissue sarcoma.** Raja Hussain Ali, Boston, MA
- 4:05 p.m. 3501 A genome-wide screen for determinants of radioresistance in head and neck cancer.** Jacqueline H. Law, Toronto, ON, Canada
- 4:20 p.m. Closing remarks.** John L. Cleveland, Tampa, FL

Room W240, Convention Center

Population Sciences

MOLECULAR, SOMATIC, SOCIAL, AND GEOSPATIAL FACTORS AND CANCER DISPARITIES

Cochairs: Iona C. Cheng, Honolulu, HI; Michele L. Cote, Indianapolis, IN

- 2:30 p.m. Introduction**
- 2:35 p.m. 3503 Racial disparity and roles of social determinants of health in epigenetic age acceleration among survivors of childhood cancer.** Noel-Marie Plonski, Memphis, TN
- 2:50 p.m. 3504 Evaluating the molecular determinants of PDAC racial health disparities.** Anthony E. Johansen-Sallee, Omaha, NE
- 3:05 p.m. 3505 Cancer disparities in race exposed through geospatial analysis of mutational signatures and environmental exposure.** Judy Bai, Albuquerque, NM
- 3:20 p.m. 3506 High-grade serous ovarian cancer somatic mutational signatures in Black and White individuals.** Katherine A. Lawson-Michod, Salt Lake City, UT
- 3:35 p.m. 3507 Mosaic chromosomal alterations in blood across ancestries via whole-genome sequencing.** Yasminka A. Jakubek, Lexington, KY
- 3:50 p.m. 3508 Association between clonal hematopoiesis and risk of prostate cancer in a large sample of African ancestry men.** Anqi Wang, Los Angeles, CA
- 4:05 p.m. 3509 1,25-dihydroxyvitamin D3-mediated suppression of genes associated with cell cycle regulation and actin organization in a non-malignant African American prostate cell line.** Jabril R. Johnson, Smyrna, GA
- 4:20 p.m. Closing remarks**

Room W311 A-D, Convention Center

Tumor Biology
THE METASTATIC NICHE

Cochairs: Adrienne Boire, New York, NY; Neta Erez, Tel Aviv, Israel

- 2:30 p.m. Introduction**
- 2:35 p.m. 3511 Melanoma-shed, lymph-borne CSPG4 conditions the pre-metastatic lymph node niche.** Haley du Bois, New York, NY
- 2:50 p.m. 3512 Organ-specific effects of Smad4 in metastatic pancreatic cancer.** Kaloyan M. Tsanov, New York, NY
- 3:05 p.m. 3513 Developing a 3D biomimetic liver metastatic niche model for pancreatic cancer.** Mahsa Pahlavanneshan, Los Angeles, CA
- 3:20 p.m. 3514 A genetic-metabolic circuit of liver-specific metastatic organotropism.** Meri Rogava, New York, NY
- 3:35 p.m. 3515 Histone demethylase KDM5D drives sex-specific differences in colorectal cancer.** Jiexi Li, Houston, TX
- 3:50 p.m. 3516 Metastatic colonization requires a proliferative pause linked to vascular co-option.** Pedro García-Gómez, Madrid, Spain
- 4:05 p.m. 3517 Multi-modal single-cell and spatial genomics reveals genomic, adaptive and microenvironmental features of human non-small cell lung cancer brain metastasis.** Somnath Tagore, New York, NY
- 4:20 p.m. Closing remarks**

CME Special Session • 2:30 p.m.–4:30 p.m.

Tangerine Ballroom 1 (WF1), Convention Center
**AACR-JCA JOINT SESSION: REAL-WORLD EVIDENCE
IN CANCER GENOMICS RESEARCH**

Cochairs: Hiroyuki Mano, Tokyo, Japan; Kenneth L. Kehl, Boston, MA

- 2:30 p.m. Introduction.** Kenneth L. Kehl, Boston, MA
- 2:36 p.m. C-CAT: The national datacenter for cancer genomic medicine.** Hiroyuki Mano, Tokyo, Japan
- 3:03 p.m. Informative cohort entry in clinico-genomic real-world data.** Kim Van Naarden Braun, New York, NY
- 3:30 p.m. Clinico-genomic data from AACR Project GENIE.** Kenneth L. Kehl, Boston, MA
- 3:57 p.m. A nationwide framework of genomic medicine for pediatric cancer.** Motohiro Kato, Tokyo, Japan
- 4:24 p.m. Closing remarks.** Hiroyuki Mano, Tokyo, Japan

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NCI-NIH-Sponsored Session • 2:45 p.m.–3:45 p.m.

NOT ELIGIBLE FOR CME CREDIT

Room W314 A, Convention Center

THE NCI'S INVESTMENT IN CANCER-RELATED TELEHEALTH RESEARCH

Moderator: Robin Vanderpool, Bethesda, MD

2:45 p.m. Advancing a telehealth research agenda. Robin Vanderpool, Bethesda, MD

2:50 p.m. NCI telehealth funding trends. Roxanne Jensen, Bethesda, MD

2:58 p.m. Telehealth Research and Innovation for Veterans with Cancer (THRIVE). Scott Sherman, New York, NY

3:06 p.m. University of Pennsylvania Telehealth Research Center of Excellence (Penn TRACE). Justin Bekelman, Philadelphia, PA

3:14 p.m. Scalable TELEheaLth Cancer cARe (STELLAR). Bonnie Spring, Chicago, IL

3:22 p.m. Making Telehealth Delivery of Cancer Care at Home Effective and Safe (MATCHES). Michael J. Morris, New York, NY

CME

Awards and Lectures • 3:00 p.m.–3:45 p.m.

Room W312, Convention Center

AACR-JOSEPH H. BURCHENAL AWARD FOR OUTSTANDING ACHIEVEMENT IN CLINICAL CANCER RESEARCH

Chair: Dan Theodorescu, Los Angeles, CA

3:00 p.m. Introduction. Dan Theodorescu, Los Angeles, CA

3:05 p.m. Award Lecture. Melissa M. Hudson, Memphis, TN

CME

Awards and Lectures • 3:30 p.m.–4:15 p.m.

Tangerine Ballroom 2 (WF2), Convention Center

AACR-CANCER RESEARCH INSTITUTE LLOYD J. OLD AWARD IN CANCER IMMUNOLOGY

Chair: Crystal L. Mackall, Stanford, CA

3:00 p.m. Introduction. Crystal L. Mackall, Stanford, CA

3:35 p.m. Award Lecture. E. John Wherry, Philadelphia, PA

MONDAY

NCI-NIH-Sponsored Session • 4:00 p.m.–5:00 p.m.
NOT ELIGIBLE FOR CME CREDIT

Room W314 A, Convention Center
NIH GRANTS SESSION: UPDATES ON FUNDING POLICIES
AND REVIEW OF NCI APPLICATIONS

Moderator: Daniel L. Gallahan, Bethesda, MD

- 4:00 p.m. **Introduction.** Daniel L. Gallahan, Bethesda, MD
- 4:05 p.m. **Overview of NCI grants.** Shannon Hughes, Rockville, MD
- 4:20 p.m. **Peer review at NIH.** Amy Rubinstein, Bethesda, MD
- 4:35 p.m. **Panel Discussion**

CME Awards and Lectures • 4:15 p.m.–5:00 p.m.

Room W312, Convention Center
AACR-AMERICAN CANCER SOCIETY AWARD FOR
RESEARCH EXCELLENCE IN CANCER EPIDEMIOLOGY
AND PREVENTION

Chair: Lorelei A. Mucci, Boston, MA

- 4:15 p.m. **Introduction.** Lorelei A. Mucci, Boston, MA
- 4:20 p.m. **Award Lecture.** Patricia A. Ganz, Los Angeles, CA

CME Awards and Lectures • 4:45 p.m.–5:30 p.m.

Tangerine Ballroom 2 (WF2), Convention Center
AACR MARGARET FOTI AWARD FOR LEADERSHIP
AND EXTRAORDINARY ACHIEVEMENTS IN CANCER RESEARCH

Chair: Patricia M. LoRusso, New Haven, CT

- 4:45 p.m. **Introduction.** Patricia M. LoRusso, New Haven, CT
- 4:50 p.m. **Award Lecture.** Elizabeth M. Jaffee, Baltimore, MD

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CME

Special Session • 4:45 p.m.–6:15 p.m.

Room W315, Convention Center

AACR-ASCO JOINT SESSION: MYELOID-TARGETED AGENTS FOR SOLID TUMORS

Cochairs: Lisa M. Coussens, Portland, OR; Eric P. Winer, New Haven, CT

4:45 p.m. Welcome and introductory remarks from the AACR President. Lisa M. Coussens, Portland, OR

4:48 p.m. Welcome and introductory remarks from the ASCO President. Eric P. Winer, New Haven, CT

Speakers: Karin E. de Visser, Amsterdam, Netherlands
Pablo Martinez Rodriguez, Tampa, FL
Padmanee Sharma, Houston, TX

6:10 p.m. Closing remarks

CME

Forums • 5:00 p.m.–6:30 p.m.

Chapin Theater, Convention Center

CAR CELLS: WHICH CAR TO DRIVE?

Moderator: Saar Gill, Philadelphia, PA

5:10 p.m. Synthetic biology for CAR protein engineering. Yvonne Y. Chen, Los Angeles, CA

5:25 p.m. CAR protein engineering: Practical considerations and functional implications. Christine E. Brown, Duarte, CA

Room W311 A-D, Convention Center

HOW CAN WE MAKE CANCER CARE AT HOME THE NORM AND NOT THE EXCEPTION?

Moderator: Kathi Mooney, Salt Lake City, UT

5:00 p.m. Introduction. Kathi Mooney, Salt Lake City, UT

5:05 p.m. Why cancer care is moving to the home: The broader context. Susan Dentzer, Washington, DC

5:20 p.m. Where we are and where we are going: Cancer drugs in the home. Justin Bekelman, Philadelphia, PA

5:35 p.m. Where we are and where we are going: Hospital care in the home. Kathi Mooney, Salt Lake City, UT

MONDAY

Room W311 E-H, Convention Center

WHAT ARE THE CHALLENGES AND SOLUTIONS IN ADOLESCENT AND YOUNG ADULT CANCERS?

Moderator: Mark Lewis, Murray, UT

- 5:00 p.m. Moderator Introduction.** Mark Lewis, Murray, UT
- 5:10 p.m. Salient differences in AYA vs. older adult population regarding health literacy, insurance insecurity, and perceived vs. actual comfort levels as digital natives.** Anne Kirchhoff, Salt Lake City, UT
- 5:25 p.m. Inherited susceptibility to cancer in the AYA population.** Katherine L. Nathanson, Philadelphia, PA

Tangerine Ballroom 1 (WF1), Convention Center

WHAT IS THE UTILITY OF PDX AND ORGANOID MODELS IN THE ERA OF IMMUNO-ONCOLOGY?

Moderator: Alana L. Welm, Salt Lake City, UT

- 5:10 p.m. Using humanized mice to study interactions between human cancer and the immune system.** Karolina Palucka, Farmington, CT
- 5:25 p.m. What's new in organoid-immune co-cultures?** Calvin J. Kuo, Stanford, CA

Room W331, Convention Center

WHY SHARE DATA AND HOW TO DO IT BETTER?: A SWOT ANALYSIS

Moderator: Michael J. Becich, Pittsburgh, PA

- 5:00 p.m. Moderator Introduction.** Michael J. Becich, Pittsburgh, PA
- 5:10 p.m. Data sharing is the key to discovery.** Sylvia K. Plevritis, Stanford, CA
- 5:25 p.m. Data sharing is a moral obligation. (But still allow for opt out.).** Jessie Tenenbaum, Raleigh, NC
- 5:40 p.m. Data sharing leads to more citations, accelerated path to promotion and higher impact of your innovation.** Michael J. Becich, Pittsburgh, PA

MONDAY

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CME

Awards and Lectures • 5:15 p.m.–6:00 p.m.

Room W312, Convention Center

AACR AWARD FOR OUTSTANDING ACHIEVEMENT IN BASIC CANCER RESEARCH

Chair: Donita C. Brady, Philadelphia, PA

5:15 p.m. Introduction. Donita C. Brady, Philadelphia, PA

5:20 p.m. Award Lecture. Kathryn E. Wellen, Philadelphia, PA

CME

Awards and Lectures • 5:30 p.m.–6:15 p.m.

Tangerine Ballroom 3-4 (WF3-4), Convention Center

AACR-PRINCESS TAKAMATSU MEMORIAL LECTURESHIP

Chair: Rakesh K. Jain, Boston, MA

5:30 p.m. Introduction. Rakesh K. Jain, Boston, MA

5:35 p.m. Funder Remarks. Yoshinori Murakami, Tokyo, Japan

5:40 p.m. Award Lecture. Robert D. Schreiber, St. Louis, MO

Professional Advancement Session • 5:30 p.m.–7:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

Signature 2, Rosen Centre Hotel

PRODUCTIVE PEER REVIEW: IMPROVING SCIENCE WHILE AVOIDING PITFALLS

Moderators: **New Editor-in-Chief of *Cancer Research***

Christine A. Iacobuzio-Donahue, New York, NY

***Cancer Discovery* Scientific Editor**

Christine M. Lovly, Nashville, TN

Town Meeting • 5:30 p.m.–7:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

Junior Ballroom G, Rosen Centre Hotel

MINORITIES IN CANCER RESEARCH (MICR) TOWN HALL MEETING

Cochairs: Clayton Yates, Baltimore, MD; Gerardo Colon-Otero, Jacksonville, FL;
Camille C.R. Ragin, Philadelphia, PA

Town Meetings • 6:00 p.m.–8:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

Windermere X, Hyatt Regency

CANCER IMMUNOPREVENTION: A CANCER IMMUNOLOGY WORKING GROUP TOWN HALL MEETING AND NETWORKING RECEPTION

Chair: Kunle Odunsi, Chicago, IL

- 6:00 p.m. Networking Reception**
- 6:40 p.m. Immunoprevention of NF-1 associated malignant peripheral nerve sheath tumor.** David A. Largaespada, Minneapolis, MN
- 6:50 p.m. Resolving an immune tolerogenic niche at the earliest phase of cancer initiation.** Yu Leo Lei, Ann Harbor, MI
- 7:00 p.m. NCI infrastructure and programs in cancer immunoprevention.** Philip E. Castle, Rockville, MD
- 7:10 p.m. Panel Discussion**
- 7:30 p.m. Networking Reception**

Windermere Y, Hyatt Regency

LINKING EPIDEMIOLOGY AND IMPLEMENTATION SCIENCES: A POPULATION SCIENCES WORKING GROUP TOWN HALL MEETING AND NETWORKING RECEPTION

Chair: Lorelei A. Mucci, Boston, MA

- 6:00 p.m. Networking Reception**
- 6:30 p.m. PSWG Working Group Overview.** Lorelei A. Mucci, Boston, MA; Andrew T. Chan, Boston, MA
- 6:40 p.m. Title to be announced.** Katrina A.B. Goddard, Rockville, MD
- 6:50 p.m. Panel: Linking epidemiology and implementation science**
Moderator: Maria Elena Martinez, San Diego, CA
Panelists: Graham A. Colditz, St. Louis, MO
 Katrina A.B. Goddard, Rockville, MD
 Gila Neta, Rockville, MD
- 7:40 p.m. Networking Reception**

MONDAY

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

Windermere W, Hyatt Regency

**STICKING IT TO CANCER WITH MOLECULAR GLUES:
A CHEMISTRY IN CANCER RESEARCH WORKING GROUP
TOWN HALL MEETING AND NETWORKING RECEPTION**

Chair: Mary M. Mader, Indianapolis, IN

6:00 p.m. Networking Reception

6:30 p.m. CICR Working Group Overview. Mary M. Mader, Indianapolis, IN;
Joachim Rudolph, South San Francisco, CA

Moderator: Benjamin L. Ebert, Boston, MA

6:40 p.m. Title to be announced. Mary Matyskiela, San Diego, CA

6:50 p.m. Title to be announced. Michael Rapé, Berkeley, CA

7:00 p.m. Title to be announced. Riccardo Sabatini, Waltham, MA

7:10 p.m. Panel Discussion

7:30 p.m. Networking Reception

Professional Advancement Session • 7:00 p.m.–9:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

Junior Ballroom F, Rosen Centre Hotel

NAVIGATING THE PATH TO A SUCCESSFUL CAREER IN CANCER RESEARCH

Cochairs: Beverly D. Lyn-Cook, Little Rock, AR; Brian M. Rivers, Atlanta, GA; Camille C.R. Ragin, Philadelphia, PA; Katie M. Campbell, Los Angeles, CA

TUESDAY, APRIL 18*

CME **Meet-the-Expert Sessions • 7:00 a.m.–7:45 a.m.**

Tangerine Ballroom 3-4 (WF3-4), Convention Center
THE BONE MARROW NICHE FOR STEM CELLS AND METASTASIS
Sean J. Morrison, Dallas, TX

Room W230, Convention Center
COLORECTAL CANCER: HOW SIGNATURE MUTATIONS DRIVE PROGRESSION, SHAPE TUMOR BIOLOGY, AND INFORM TREATMENT STRATEGIES
Ronald A. DePinho, Houston, TX

Room W224, Convention Center
COMBINATION OF RADIATION AND IMMUNOTHERAPY: BEYOND THE MICROENVIRONMENT
Sana D. Karam, Aurora, CO

Room W315, Convention Center
A ROAD MAP TO DEFEAT PANCREATIC CANCER
David A. Tuveson, Cold Spring Harbor, NY

Room W311 E-H, Convention Center
EPITRANSCRIPTOMICS AND TUMOR METABOLISM
Jeremy N. Rich, Pittsburgh, PA

Chapin Theater, Convention Center
GENETIC ENGINEERING MEETS TUMOR IMMUNOLOGY: LESSONS FROM MOUSE MODELS OF CANCER
Tyler Jacks, Cambridge, MA

Room W314 A, Convention Center
HEALTH EQUITY APPROACHES TO CANCER PREVENTION AND CONTROL
Chau Trinh-Shevrin, New York, NY

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Room W331, Convention Center

LOSS OF HETEROZYGOSITY IN CANCER EVOLUTION

Francesca Demichelis, Trento, Italy

Room W311 A-D, Convention Center

NEIGHBORHOODS MATTER: WHAT'S LURKING IN THE TUMOR MICROENVIRONMENT?

Sylvia K. Plevritis, Stanford, CA

Room W304 E-H, Convention Center

NEW CANCER INSIGHTS FROM FUNCTIONAL GENOMIC APPROACHES

Kimberly Stegmaier, Boston, MA

Room W240, Convention Center

NON-GENETIC MECHANISMS OF CANCER THERAPY RESISTANCE

Joan S. Brugge, Boston, MA

Tangerine Ballroom 1 (WF1), Convention Center

NOVEL APPROACHES TO OVERCOME ACQUIRED RESISTANCE IN EGFR MUTANT LUNG CANCER

Suresh S. Ramalingam, Atlanta, GA

Room W304 A-D, Convention Center

PLAN TO ENHANCE DIVERSITY: OPPORTUNITIES, CHALLENGES, BEST PRACTICES, AND INNOVATIVE STRATEGIES TO ADVANCE A CULTURE OF INCLUSIVE EXCELLENCE AT CANCER CENTERS

Christopher I. Li, Seattle, WA

Room W330, Convention Center

PREVENTION, DIAGNOSIS, AND TREATMENT OF GYNECOLOGIC CANCERS: HOW CAN WE OVERCOME THE CURRENT DISPARITIES?

Eloise Chapman-Davis, New York, NY

TUESDAY

Valencia BC, Convention Center
STRATEGIES FOR DEVELOPING COMBINATORIAL THERAPIES FOR RAS-DRIVEN CANCERS

Karen M. Cichowski, Boston, MA

Room W312, Convention Center
TARGETING KRAS: LIGHT AT THE END OF THE TUNNEL

Mariano Barbacid, Madrid, Spain

Room W307, Convention Center
TUMOR ADAPTION AND PLASTICITY

Dario C. Altieri, Philadelphia, PA

CME **Plenary Session • 8:00 a.m.–10:00 a.m.**

W Hall A2-3, Convention Center
EMBRACING IMMUNE ECOSYSTEMS

Chair: Judith A. Varner, La Jolla, CA

- 8:00 a.m. Chair Introduction.** Judith A. Varner, La Jolla, CA
- 8:05 a.m. Targeting myeloid cells in cancer.** Miriam Merad, New York, NY
- 8:27 a.m. Tumor macrophage heterogeneity.** Florent Ginhoux, Villejuif, France
- 8:49 a.m. LAG3: The third checkpoint inhibitor.** Dario A. Vignali, Pittsburgh, PA
- 9:11 a.m. CAR-T cells: Next generation.** Gianpietro Dotti, Chapel Hill, NC
- 9:33 a.m. Understanding spontaneous IgA responses at tumor beds provides a rationale for novel immunotherapeutic approaches.** Jose R. Conejo-Garcia, Durham, NC
- 9:55 a.m. Wrap-up and opportunities for the future.** Judith A. Varner, La Jolla, CA

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Professional Advancement Session • 8:30 a.m.–2:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

W Hall E2, Convention Center

SPECIAL PROGRAM FOR HIGH SCHOOL STUDENTS, “THE CONQUEST OF CANCER AND THE NEXT GENERATION OF CANCER RESEARCHERS”

Chair: Brian M. Rivers, Atlanta, GA

Poster Sessions • 9:00 a.m.-12:30 p.m.

NOT ELIGIBLE FOR CME CREDIT

W Halls B-E1, Convention Center

Complete titles and author listings for abstracts in the poster sessions are available in the online Itinerary Planner and the Annual Meeting App.

TUMOR BIOLOGY

- Section 1 Pediatric Cancer 2: Biology and Therapeutics
- Section 2 Pediatric Cancer 3: Genomes and Novel Tumor Models
- Section 3 PET, MRI, and CT Imaging
- Section 4 Regulation of Invasion and Migration
- Section 5 Signaling Pathways That Impact the Tumor Microenvironment
- Section 6 Stem Cells and the Microenvironment

MOLECULAR/CELLULAR BIOLOGY AND GENETICS

- Section 7 Cancer and Metabolism 1
- Section 8 Cancer and Metabolism 2
- Section 9 Gene Regulation in Cancer
- Section 10 Non-coding RNAs in Brain, Melanoma, Lung, and Head/Neck
- Section 11 Non-coding RNAs in Breast and Gynecological/Urinary Tract Cancers and New Techniques/Technologies
- Section 12 Non-coding RNAs in Gastrointestinal, Blood, and Bone Marrow Cancers

CHEMISTRY

- Section 13 Natural Products
- Section 14 Structural and Chemical Biology

EXPERIMENTAL AND MOLECULAR THERAPEUTICS

- Section 15 Drug Resistance in Molecular Targeted Therapies 3
- Section 16 Drug Resistance in Molecular Targeted Therapies 4 /
Regulation of Gene Expression in Drug Resistance
- Section 17 Identification of Molecular Targets 1
- Section 18 Identification of Molecular Targets 2 / New Nonclinical Models for Targets
- Section 19 Oncogenes and Tumor Suppressor Genes as Targets for Therapy 3
- Section 20 Tyrosine Kinase and Phosphatase Inhibitors 1
- Section 21 Tyrosine Kinase and Phosphatase Inhibitors 2

IMMUNOLOGY

- Section 22 Adoptive Cell and Natural Killer Cell Therapy
- Section 23 CAR T-cell Therapy 2
- Section 24 Determinants of Immunotherapeutic Effectiveness
- Section 25 Developments in Anticancer Immunotherapy
- Section 36 Late-Breaking Research: Immunology 2

SURVIVORSHIP

- Section 26 Advocates Poster Session 2

POPULATION SCIENCES

- Section 28 Cancer Screening and Health Equity
- Section 29 Descriptive Epidemiology and Environmental Risk Factors

PREVENTION / EARLY DETECTION / INTERCEPTION

- Section 30 Diet, Nutrition, Lifestyle, and Environment and Cancer Prevention

MULTIDISCIPLINARY

- Section 31 AACR Project GENIE Use Cases

**BIOINFORMATICS / COMPUTATIONAL BIOLOGY / SYSTEMS BIOLOGY /
CONVERGENT SCIENCE**

- Section 32 Algorithms and Statistical Methods
- Section 33 Integrative Cancer Systems Biology
- Section 34 Late-Breaking Research: Bioinformatics, Computational Biology, Systems
Biology, and Convergent Science 2

CLINICAL RESEARCH EXCLUDING TRIALS

- Section 35 Late-Breaking Research: Clinical Research 2
- Section 37 Biomarkers of Therapeutic Benefit 4
- Section 38 Cancer Outcomes 2
- Section 39 Clinical Informatics and Data Science / Retrospective Clinical Analyses 1
- Section 40 Immunomodulatory Agents and Interventions
- Section 41 Inflammation, Immunity, and Cancer
- Section 42 Molecular Targeted Therapies 2
- Section 43 Precision Oncology in Pediatric Cancer: From Genomics to Databases to Real World Evidence
- Section 44 Spatial Profiling, Tumor Classification, and Response Assessment

CLINICAL TRIALS

- Section 45 First-in-Human Phase I Clinical Trials 2
- Section 46 Phase I Clinical Trials 1
- Section 47 Phase II Clinical Trials 2

Meet and Greet • 9:30 a.m.–10:30 a.m.

NOT ELIGIBLE FOR CME CREDIT

Publications Booth 2743, W Halls B-E1

**MEET THE EDITOR-IN-CHIEF OF *MOLECULAR CANCER THERAPEUTICS*:
BEVERLY A. TEICHER, PHD**

NCI-NIH-Sponsored Session • 10:15 a.m.–11:15 a.m.

NOT ELIGIBLE FOR CME CREDIT

Room W314 A, Convention Center

INTRAMURAL AND EXTRAMURAL TRAINING AND CANCER DEVELOPMENT AWARDS AND OPPORTUNITIES

Moderator: Nastaran Zahir, Bethesda, MD

- 10:15 a.m. Introduction:** Nastaran Zahir, Bethesda, MD
- 10:25 a.m. Overview of NCI intramural training programs.** Erika Ginsburg, Bethesda, MD
- 10:35 a.m. NCI fellowship funding opportunities for predocs and postdocs.** Mariam Eljanne, Bethesda, MD,
- 10:45 a.m. NCI career development award funding opportunities: Tips for early-career-stage investigators.** Sonia B. Jakowlew, Bethesda, MD
- 10:55 a.m. Panel Discussion**

CME **Advances in Diagnostics and Therapeutics**
10:15 a.m.–11:45 a.m.

Tangerine Ballroom 3-4 (WF3-4), Convention Center
CANCER VACCINES: BACK TO THE FUTURE

Chair: Vinod P. Balachandran, New York, NY

- 10:15 a.m. Chair Introduction.** Vinod P. Balachandran, New York, NY
- 10:20 a.m. Title to be announced.** Catherine J. Wu, Boston, MA
- 11:05 a.m. A pentavalent prophylactic Epstein-Barr virus elicits high titers of neutralizing antibodies that prevents EBV infection in humanized mice.** Javier G. Ogembo, Duarte, CA
- 10:40 a.m. Individualized mRNA neoantigen vaccines for pancreatic cancer.** Vinod P. Balachandran, New York, NY

Tangerine Ballroom 1 (WF1), Convention Center
DHARMA MASTER JIANTAI ADVANCES IN BIOMARKERS SESSION: NEXT GENERATION TECHNOLOGIES AND BIOMARKERS FOR THE EARLY DETECTION OF CANCER

Chair: Andrew K. Godwin, Kansas City, KS

- 10:15 a.m. Chair Introduction.** Andrew K. Godwin, Kansas City, KS
- 10:20 a.m. Machine learning-enabled liquid biopsy nanosensors.** Daniel A. Heller, New York, NY
- 10:45 a.m. Urinary assessment of response and resistance to checkpoint blockade immunotherapy via activity-based synthetic biomarkers.** Gabe Kwong, Atlanta, GA
- 11:10 a.m. Tiny packages, enormous potential: Exploiting extracellular vesicles for early detection and disease monitoring of cancer.** Andrew K. Godwin, Kansas City, KS

Tangerine Ballroom 2 (WF2), Convention Center
FUNCTIONAL PRECISION MEDICINE IN ONCOLOGY

Chair: Anthony Letai, Boston, MA

- 10:15 a.m. Chair Introduction.** Anthony Letai, Boston, MA
- 10:20 a.m. Utilization of functional precision medicine for clinical trials in acute leukemia and multiple myeloma: Correlation with molecular data.** Pamela Becker, Duarte, CA

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

- 10:45 a.m.** **Feasibility of using patient-derived models for functional precision medicine in breast cancer trials.** Alana L. Welm, Salt Lake City, UT
- 11:10 a.m.** **Single cell functional testing to guide treatment in aggressive hematologic malignancies.** Philipp Staber, Vienna, Austria

Valencia A, Convention Center

NOVEL FRONTIERS IN DRUG DISCOVERY

Chair: Eric S. Fischer, Boston, MA

- 10:15 a.m.** **Chair Introduction.** Eric S. Fischer, Boston, MA
- 10:20 a.m.** **Molecular glues for protein degradation and beyond.** Eric S. Fischer, Boston, MA
- 10:45 a.m.** **Targeting autophagy in cancer.** Christina G. Towers, La Jolla, CA
- 11:10 a.m.** **Drugging GBP1 as a therapeutic strategy for cancer.** Sanjay V. Malhotra, Portland, OR

CME

Advances in Organ Site Research • 10:15 a.m.–11:45 a.m.

Room W224, Convention Center

DECODING THE ORIGINS OF DRUG RESISTANCE PHENOTYPES IN CANCER

Chair: Samuel Aparicio, Vancouver, BC, Canada

- 10:15 a.m.** **Chair Introduction.** Samuel Aparicio, Vancouver, BC, Canada
- 10:20 a.m.** **Investigating biological mediators of social and environmental risk factors on cancer health disparities.** Brittany D. Lord, Bethesda, MD
[AACR NextGen Star]
- 11:00 a.m.** **Non-genetic mechanisms of emergent drug resistant states in cancer.**
Celine Vallot, Paris, France
- 10:40 a.m.** **Quantifying the role of copy number-structural mutation in resistance to chemotherapeutic agents in cancer.** Samuel Aparicio, Vancouver, BC, Canada
- 11:20 a.m.** **Emerging mechanisms of CDK4/6 resistance in ER+ breast cancers.** David W. Cescon, Toronto, ON, Canada

TUESDAY

Room W307, Convention Center

INTEGRATING GENOMICS INTO CLINICAL ADVANCES IN LYMPHOMA

Chair: Christopher R. Flowers, Houston, TX

- 10:15 a.m. Chair Introduction. Christopher R. Flowers, Houston, TX
- 10:20 a.m. Next generation sequencing in aggressive B-cell lymphomas. Anne J. Novak, Rochester, MN
- 10:40 a.m. Integrating genomic subtyping into lymphoma clinical trials and care. Christopher R. Flowers, Houston, TX
- 11:00 a.m. Towards a genomic classification of T cell lymphoma. Megan S. Lim, Philadelphia, PA
- 11:20 a.m. Panel Discussion

CME Advances in Prevention Research • 10:15 a.m.–11:45 a.m.

Room W311 A-D, Convention Center

INCREASING THE REACH AND EFFICACY OF EVIDENCE-BASED INTERVENTIONS FOR TOBACCO DEPENDENCE

Chair: David W. Wetter, Salt Lake City, UT

- 10:15 a.m. Chair Introduction. David W. Wetter, Salt Lake City, UT
- 10:20 a.m. Increasing the reach of evidence-based interventions for tobacco use. David W. Wetter, Salt Lake City, UT
- 10:45 a.m. Improving the use and effectiveness of treatments for tobacco use in clinical settings. Robert A. Schnoll, Philadelphia, PA
- 11:10 a.m. Personalizing medication treatment for tobacco cessation. Paul M. Cinciripini, Houston, TX
- 11:35 a.m. Panel Discussion

CME Major Symposia • 10:15 a.m.–11:45 a.m.

Room W312, Convention Center

ADVANCES IN SUPPORTIVE CARE

Chair: Alicia Morgans, Boston, MA

- 10:15 a.m. Chair Introduction. Alicia Morgans, Boston, MA
- 10:20 a.m. Living longer and better: Advances in cancer survivorship care. Alicia Morgans, Boston, MA

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

- 10:45 a.m. Advances in cardio-oncology clinical science and patient care.** Bonnie Ky, Philadelphia, PA
- 11:10 a.m. Bad to the bone: Effects of pathologic bone destruction on muscle.** Theresa A. Guise, Houston, TX
- 11:35 a.m. Panel Discussion**

Valencia BC, Convention Center

THE CONNECTION BETWEEN AUTOIMMUNITY AND IMMUNOTHERAPY IN CANCER

- Chair:** David V. Serreze, Bar Harbor, ME
- 10:15 a.m. Chair Introduction.** David V. Serreze, Bar Harbor, ME
 - 10:20 a.m. Title to be announced.** Ana L. Perdigoto, New Haven, CT
 - 10:45 a.m. Clinical advances in irAE diagnosis and management.** Jarushka Naidoo, Baltimore, MD
 - 11:10 a.m. Use of humanized mice to identify genes contributing to checkpoint blockade induced irAEs.** David V. Serreze, Bar Harbor, ME
 - 11:45 a.m. Discussion**

Room W414, Convention Center

DIETARY REGULATION OF CANCER PROGRESSION

- Chair:** Lydia Lynch, Boston, MA
- 10:15 a.m. Chair Introduction.** Lydia Lynch, Boston, MA
 - 10:20 a.m. The impact of dietary lipids fueling anti-tumor immunity.** Lydia Lynch, Boston, MA
 - 10:45 a.m. Stress granules at the crossroads of obesity-induced cellular stress and pancreatic cancer.** Elda Grabocka, Philadelphia, PA
 - 11:10 a.m. Fasting mimicking diet cycles in cancer treatment.** Valter D. Longo, Los Angeles, CA
 - 11:35 a.m. Panel Discussion**

Room W311 E-H, Convention Center
ELECTRONIC HEALTH RECORDS AND CANCER LEARNING HEALTH SYSTEMS

Chair: Tina Hernandez-Boussard, Stanford, CA

- 10:15 a.m. Chair Introduction.** Tina Hernandez-Boussard, Stanford, CA
- 10:20 a.m. A learning system for personalized breast cancer risk management.** Mia A. Levy, Cambridge, MA
- 10:45 a.m. Deploying, sustaining, and learning from PROS: Lessons from the SIMPRO consortium.** Michael Hassett, Boston, MA
- 11:10 a.m. Developing accurate risk models for cancer care: Addressing biases, uncertainty, and clinical utility.** Tina Hernandez-Boussard, Stanford, CA
- 11:35 a.m. Panel Discussion**

Room W304 E-H, Convention Center
MINORITIES IN CANCER RESEARCH SCIENTIFIC SYMPOSIUM ON INNOVATION TO ADDRESS DISPARITIES IN ONCOLOGY CLINICAL TRIALS

Cochairs: Luis Diaz, New York, NY; Folakemi T. Odedina, Jacksonville, FL

- 10:15 a.m. Introduction.** Luis A. Diaz, New York, NY
- 10:25 a.m. Innovation through decentralization: Meeting participants where they are.** Folakemi T. Odedina, Jacksonville, FL
- 10:45 a.m. The role of the FDA in addressing disparities in oncology clinical trials.** Lola A. Fashoyin-Aje, Silver Spring, MD
- 10:55 a.m. Discussion**

Valencia D, Convention Center
NEXT GENERATION OF MYELOID CHECKPOINTS IN CANCER

Chair: Ido Amit, Rehovot, Israel

- 10:15 a.m. Chair Introduction.** Ido Amit, Rehovot, Israel
- 10:20 a.m. Basic and clinical impacts of targeting myeloid cells in tumors.** Judith A. Varner, La Jolla, CA
- 10:45 a.m. Regulation of macrophage and dendritic cell differentiation in the tumor microenvironment.** Malay Haldar, Philadelphia, PA
- 11:10 a.m. The power of One: Immuno-oncology in the age of single cell genomics.** Ido Amit, Rehovot, Israel
- 11:35 a.m. Panel Discussion**

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Room W315, Convention Center
Regulatory Science and Policy Session
PROJECT SITE SELECTOR: NAVIGATING ONCOLOGY DRUG DEVELOPMENT THROUGH TROUBLED WATERS

Moderator: Harpreet Singh, Silver Spring, MD

Panelists: Ladi Akinboro, Silver Spring, MD
Jhanelle E. Gray, Tampa, FL
Bea Lavery, San Francisco, CA
Carrie Lee, Chapel Hill, NC
Ke Liu, Boston, MA
Leigh Marcus, Silver Spring, MD
Meg Valnoski, Princeton, NJ

Room W304 A-D, Convention Center
STRESS, STEMNESS, AND DRUG RESISTANCE

Chair: Hua Yu, Duarte, CA

- 10:15 a.m. Chair Introduction.** Hua Yu, Duarte, CA
- 10:20 a.m. Landscape of single-cell developmental states across human malignancies.**
Aaron M. Newman, Stanford, CA
- 10:40 a.m. Targeting polyamines metabolism in acute myeloid leukemia stem cells.**
Courtney Jones, Toronto, ON, Canada
[AACR NextGen Star]
- 11:00 a.m. Therapy resistance induced by reprogrammed lipid metabolism.** Hua Yu, Duarte, CA
- 11:20 a.m. Therapy-induced stress adaptations driving tumor evolution during molecular therapy in human NSCLC.** Trever G. Bivona, San Francisco, CA
- 11:40 a.m. Discussion**

CME Clinical Trials Plenary Session • 10:15 a.m.–12:15 p.m.

Location to be announced

NOVEL BIOMARKER-DRIVEN MOLECULARLY TARGETED THERAPY TRIALS

Cochairs: Bridgitte C. Widemann, Bethesda, MD; Mustafa Khasraw, Durham, NC

Introduction

- 10:15 a.m. CT016 Clinical and translational findings of pemigatinib in previously treated solid tumors with activating FGFR1-3 alterations in the FIGHT-207 study.** Jordi Rodon, Houston, TX
- 10:30 a.m. Discussant.** Alexander Drilon, New York, NY
- 10:40 a.m. Discussion**
- 10:45 a.m. CT017 Pan-mutant and isoform selective PI3K α inhibitor, RLY-2608, demonstrates selective targeting in a first-in-human study of PIK3CA-mutant solid tumor patients, ReDiscover trial.** Andreas Varkaris, Boston, MA
- 11:00 a.m. Discussant.** Fabrice Andre, Villejuif, France
- 11:10 a.m. Discussion**
- 11:15 a.m. CT018 Safety and efficacy of three PARP inhibitors (PARPi) combined with the ataxia telangiectasia- and Rad3-related kinase inhibitor (ATRi) camonsertib in patients (pts) with solid tumors harboring DNA damage response (DDR) alterations.** Timothy A. Yap, Houston, TX
- 11:30 a.m. Discussant.** Fiona Simpkins, Philadelphia, PA
- 11:40 a.m. Discussion**
- 11:45 a.m. CT019 Phase I/II study of the PARP inhibitor olaparib and ATR inhibitor ceralasertib in children with advanced malignancies: Arm N of the AcSé-ESMART trial.** Susanne A. Gatz, Birmingham, United Kingdom
- 12:00 p.m. Discussant.** Julia L. Glade Bender, New York, NY
- 12:10 p.m. Discussion**

Meet and Greet • 11:30 a.m.–12:30 p.m.

NOT ELIGIBLE FOR CME CREDIT

Publications Booth 2743, W Halls B-E1

**MEET THE EDITORS-IN-CHIEF OF *CANCER PREVENTION RESEARCH*:
RAYMOND N. DUBOIS, MD, PhD AND MICHAEL N. POLLAK, MD**

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CME

Awards and Lectures • 12:00 p.m.–12:30 p.m.

Room W240, Convention Center

AACR GERTRUDE B. ELION CANCER RESEARCH AWARD LECTURE

12:00 p.m. Unravel the root of cancer immune resistance. Yuxuan Phoenix Miao, Chicago, IL

NCI-NIH-Sponsored Session • 12:30 p.m.–1:30 p.m.

NOT ELIGIBLE FOR CME CREDIT

Room W314 A, Convention Center

HELPING EXTRAMURAL INNOVATORS REACH THE CLINIC: NCI DEVELOPMENTAL THERAPEUTICS PROGRAM

Moderator: Rosemarie Aurigemma, Rockville, MD

12:30 p.m. Funding opportunities. Sundar Venkatachalam, Bethesda, MD

12:40 p.m. New drug development resources. Rosemarie Aurigemma, Bethesda, MD

12:50 p.m. Stepping Stones program. Sharad K. Verma, Bethesda, MD

1:00 p.m. Immuno-oncology initiatives and services. Marc S. Ernstoff, Bethesda, MD

1:10 p.m. Panel Discussion

CME

Advances in Diagnostics and Therapeutics 12:30 p.m.–2:00 p.m.

Room W224, Convention Center

HOW CAN WE LEVERAGE EMERGING SINGLE-CELL AND SPATIAL PROFILING METHODS TO UNDERSTAND THE FUNCTIONAL PROPERTIES OF CANCERS?

Chair: Alex K. Shalek, Cambridge, MA

12:30 p.m. Chair Introduction. Alex K. Shalek, Cambridge, MA

12:35 p.m. Charting human pre-cancer to cancer transitions with single-cell and spatial data. Ken S. Lau, Nashville, TN

1:00 p.m. Tracking the clonal origins of metaplasia and cancer. Sydney Shaffer, Philadelphia, PA

1:25 p.m. Does cell state matter in cancer? Alex K. Shalek, Cambridge, MA

1:50 p.m. Panel Discussion

TUESDAY

Tangerine Ballroom 3-4 (WF3-4), Convention Center
IMMUNE PROFILING AND IMMUNE HEALTH IN CANCER

Chair: Trevor J. Pugh, Toronto, ON, Canada

- 12:30 p.m. Chair Introduction.** Trevor J. Pugh, Toronto, ON, Canada
- 12:35 p.m. Immune cells as ‘biosensors’ and the basis for immune health profiling of cancer and beyond.** E. John Wherry, Philadelphia, PA
- 1:00 p.m. Immune-driven evolution in cancer.** Marta Luksza, New York, NY
- 1:25 p.m. Understanding immunotherapy response through immune repertoire sequencing.** Trevor J. Pugh, Toronto, ON, Canada
- 1:50 p.m. Panel Discussion**

CME **Advances in Organ Site Research • 12:30 p.m.–2:00 p.m.**

Room W307, Convention Center
ADVANCES IN BRAIN TUMOR RESEARCH AND TREATMENT

Chair: Samuel K. McBrayer, Dallas, TX

- 12:30 p.m. Chair introduction.** Samuel K. McBrayer, Dallas, TX
- 12:35 p.m. ONC201 in H3K27M-mutant diffuse midline gliomas: Clinical biomarkers and mechanisms of response.** Carl Koschmann, Ann Arbor, MI
- 1:00 p.m. Improving treatment of adult and pediatric brain tumors: Emerging strategies.** Rakesh K. Jain, Boston, MA
- 1:25 p.m. Targeting metabolic vulnerabilities in IDH mutant glioma.** Samuel K. McBrayer, Dallas, TX
- 1:50 p.m. Panel Discussion**

Room W312, Convention Center
CHALLENGES AND ADVANCES IN SARCOMA TRANSLATIONAL RESEARCH

Chair: Judith V.M.G. Bovee, Leiden, Netherlands

- 12:30 p.m. Chair Introduction.** Judith V.M.G. Bovee, Leiden, Netherlands
- 12:35 p.m. Methylation profiling and NGS in sarcoma diagnostics.** Daniel Baumhoer, Basel, Switzerland
- 1:00 p.m. On the importance of the microenvironment of pediatric sarcoma.** Troy A. McEachron, Bethesda, MD

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1:25 p.m. **On the development of sarcoma models for patient tailored therapy.**
Judith V.M.G. Bovee, Leiden, Netherlands

1:50 p.m. **Panel Discussion**

CME **Advances in Prevention Research • 12:30 p.m.–2:00 p.m.**

Room W311 A-D, Convention Center

COMMUNITY ENGAGEMENT TO REDUCE CANCER DISPARITIES

Chair: Francisco Cartujano, Rochester, NY

12:30 p.m. **Chair Introduction**

12:35 p.m. **Addressing tobacco-related disparities among Latinos via community-based participatory research.** Francisco Cartujano, Rochester, NY

1:00 p.m. **Engaging the transgender community: Best practices for cancer prevention and control.** Inés Aristegui, Buenos Aires, Argentina

1:25 p.m. **Examination of barriers and facilitators for breast and cervical cancer screening among Latinx trans and non-binary individuals.** Alixida Ramos-Pibernus, Ponce, PR

1:50 p.m. **Panel Discussion**

CME **Major Symposia • 12:30 p.m.–2:00 p.m.**

Room W304 A-D, Convention Center

BIOLOGICAL BASIS OF NOVEL TARGETS FOR SOLID TUMORS

Chair: Carlos Caulin, Tucson, AZ

12:30 p.m. **Chair Introduction.** Carlos Caulin, Tucson, AZ

12:35 p.m. **Oncogenic activities that promote and sustain adenoid cystic carcinoma development.** Carlos Caulin, Tucson, AZ

1:00 p.m. **Novel molecular mechanisms of lung cancer plasticity and targeting lung squamous cell carcinoma.** Cecil Han, Washington, DC

1:25 p.m. **Targeting the metabolic vulnerabilities of cancer cells by phosphoinositide kinase inhibition.** Brooke M. Emerling, La Jolla, CA

1:50 p.m. **Panel Discussion**

Tangerine Ballroom 2 (WF2), Convention Center
**DHARMA MASTER JIANTAI SYMPOSIUM IN TARGETED THERAPY:
CELLULAR THERAPIES FOR CANCER**

Chair: Christopher A. Klebanoff, New York, NY

- 12:30 p.m. Chair Introduction.** Christopher A. Klebanoff, New York, NY
- 12:35 p.m. Immunogenicity and therapeutic targeting of recurrently mutated ‘public’ neoantigens.** Christopher A. Klebanoff, New York, NY
- 1:00 p.m. CRISPR-based engineering of key gene targets to enhance T cell therapies.** Julia Carnevale, Burlingame, CA
- 1:25 p.m. In depth analysis of TIL in melanoma and correlations with outcome.** John B.A.G. Haanen, Amsterdam, Netherlands
- 1:50 p.m. Panel Discussion**

Room W414, Convention Center
DNA DAMAGE AND THERAPEUTIC STRATEGIES

Chair: Peng Mao, Albuquerque, NM

- 12:30 p.m. Chair Introduction.** Peng Mao, Albuquerque, NM
- 12:35 p.m. A new role of transcription-coupled DNA repair in affecting temozolomide adducts and mutations.** Peng Mao, Albuquerque, NM
- 1:00 p.m. Novel strategies for homologous recombination deficient pancreatic cancer.** Kim A. Reiss, Philadelphia, PA
- 1:25 p.m. MMEJ targeting for treating HR deficient tumors.** Agnel J. Sfeir, New York, NY
- 1:50 p.m. Panel Discussion**

Room W311 E-H, Convention Center
FUTURE OF PHASE I CLINICAL TRIALS

Chair: Shivaani Kummar, Portland, OR

- 12:30 p.m. Chair Introduction.** Shivaani Kummar, Portland, OR
- 12:35 p.m. Revolution in the precision medicine paradigm in phase 1 trials: The future is now.** Vivek Subbiah, Houston, TX
- 1:00 p.m. Antibody drug conjugates: Selection, drug resistance, and combinations.** Patricia M. LoRusso, Hamden, CT
- 1:25 p.m. Immunotherapies: Where do we go next?** Shivaani Kummar, Portland, OR
- 1:50 p.m. Panel Discussion**

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

Valencia A, Convention Center
LIQUID BIOPSY: OPPORTUNITIES AND CHALLENGES OF CELL-FREE DNA

Chair: Aadel A. Chaudhuri, St. Louis, MO

- 12:30 p.m. Chair Introduction.** Aadel A. Chaudhuri, St. Louis, MO
- 12:35 p.m. Translating fragmentomics discoveries into impacts in liquid biopsies.**
Dennis Lo, Hong Kong, China
- 1:00 p.m. Leveraging genomic and epigenomic cell-free DNA features for clinical translation.** Sarah-Jane Dawson, Melbourne, Australia
- 1:25 p.m. Proximal and systemic cell-free DNA analysis for detection of adult and pediatric malignancies.** Aadel A. Chaudhuri, St. Louis, MO
- 1:50 p.m. Panel Discussion**

Tangerine Ballroom 1 (WF1), Convention Center
METABOLIC INFLUENCE ON THE CANCER CELL STATE

Chair: Matthew G. Vander Heiden, Cambridge, MA

- 12:30 p.m. Mechanisms of epigenetic regulation and therapeutic response in hormone-driven tumors.** Eneda Toska, Baltimore, MD
- 12:50 p.m. Transcriptional and metabolic dynamics of cancer cells under nutrient deprivation.** Alvin P. Makohon-Moore, Nutley, NJ
[AACR NextGen Star]
- 1:05 p.m. Metabolic rewiring during tumor suppression.** Lydia WS Finley, New York, NY
- 1:25 p.m. Relationship between nucleotide metabolism and cell state regulation.**
Matthew G. Vander Heiden, Cambridge, MA
- 1:50 p.m. Panel Discussion**

Valencia BC, Convention Center
MICROBIOME AND CANCER IMMUNOTHERAPY

Chair: Florencia McAllister, Houston, TX

- 12:30 p.m. Chair Introduction.** Florencia McAllister, Houston, TX
- 12:35 p.m. Mechanisms employed by the tumor microbiome to mediate responses to immunotherapy.** Florencia McAllister, Houston, TX
- 12:55 p.m. A biobank of Fecal Immunochemical Tests (FIT) for gut microbiome measurement: A paradigm for studying the microbiome and cancer.**
Doratha A. Byrd, Tampa, FL
[AACR NextGen Star]
- 1:10 p.m. The impact of gut microbial amino acid metabolism on immunity in the solid tumor microenvironment.** Tracy L. McGaha, Toronto, ON, Canada
- 1:30 p.m. Molecular pathways activated by the gut microbiota to improve cancer immunotherapy.** Maria Rescigno, Milan, Italy
- 1:50 p.m. Panel Discussion**

Room W315, Convention Center
Regulatory Science and Policy Session
MULTI-CANCER EARLY DETECTION (MCED) ASSAYS:
EARLY DETECTION VERSUS EARLY DISTRACTION

Moderators: Jamie Brewer, Silver Spring, MD

Panelists: Angela R. Bradbury, Merion Station, PA
Philip E. Castle, Rockville, MD
Luis A. Diaz, New York, NY
Kimberly Lynn Newcomer, Milton, WI
Marie E. Wood, Aurora, CO

Room W304 E-H, Convention Center
SEX HORMONES AND CANCER

- Chair:** Amy Moran, Portland, OR
- 12:30 p.m. Chair Introduction.** Amy Moran, Portland, OR
 - 12:35 p.m. Sex steroid hormones in breast cancer heterogeneity and endocrine resistance.** Carol A. Sartorius, Aurora, CO
 - 1:00 p.m. Androgens and Immunotherapy-a novel mechanism of immunotherapy resistance.** Amy Moran, Portland, OR

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

- 1:25 p.m.** **Sex differences in severe adverse events in patients receiving immunotherapy, targeted therapy, or chemotherapy in Cancer clinical trials: An evidentiary perspective.** Joseph M. Unger, Seattle, WA
- 1:50 p.m.** **Panel Discussion**

Valencia D, Convention Center

THE DUPLICITOUS TUMOR MICROENVIRONMENT

Chair: Amanda W. Lund, New York, NY

- 12:30 p.m.** **Chair Introduction.** Amanda W. Lund, New York, NY
- 12:35 p.m.** **The complexities of tumor associated macrophages and the key to effective targeting for anti-cancer therapy.** Jennifer L. Guerriero, Boston, MA
- 1:00 p.m.** **Tumor-associated lymphatic vessels and T cell transit through the tumor microenvironment.** Amanda W. Lund, New York, NY
- 1:25 p.m.** **Age-related changes in the tumor microenvironment drive tumor progression.** Sheila A. Stewart, St. Louis, MO
- 1:50 p.m.** **Panel Discussion**

Meet and Greet • 1:30 p.m.–2:30 p.m.

NOT ELIGIBLE FOR CME CREDIT

Publications Booth 2743, W Halls B-E1

MEET THE EDITORS-IN-CHIEF OF *CANCER RESEARCH COMMUNICATIONS*:
ELAINE R. MARDIS, PhD AND LILLIAN L. SIU, MD

Poster Sessions • 1:30 p.m.-5:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

W Halls B-E1, Convention Center

Complete titles and author listings for abstracts in the poster sessions are available in the online Itinerary Planner and the Annual Meeting App.

TUMOR BIOLOGY

- Section 2 3D and Tissue Recombinant Models
- Section 3 Advances in Angiogenesis
- Section 4 Evaluating Tumor Progression via 3D and Spatial Approaches
- Section 5 Inflammation and Tumor Progression
- Section 6 Patient-Derived Xenograft Models
- Section 7 Single Cell and Spatial Considerations of the Tumor Microenvironment
- Section 36 Late-Breaking Research: Tumor Biology 2

MOLECULAR/CELLULAR BIOLOGY AND GENETICS

- Section 8 Chromatin Structure and Function in Cancer
- Section 9 Epigenetic Mechanisms as Drivers of Tumorigenesis
- Section 10 Oxidative Stress, Metabolism, and Cell Senescence
- Section 11 Responses to Hypoxic, Proteotoxic, and Other Novel Forms of Cell Stress
- Section 12 Role of Mitochondria and Signaling Pathways in Cancer
- Section 35 Late-Breaking Research: Molecular/Cellular Biology and Genetics 2

EXPERIMENTAL AND MOLECULAR THERAPEUTICS

- Section 13 Anticancer Approaches Targeting Signal Transduction Pathways
- Section 14 Anticancer Approaches: Antibody-Drug Conjugates, Epigenetics, and Tumor Environment
- Section 15 Novel Antitumor Agents, PI3K/AKT Inhibitors, Proteasome Inhibitors, and Topoisomerases
- Section 16 Novel Targets and Pathways
- Section 17 Targeting Protein Kinases and Phosphatases for Therapy 1
- Section 18 Targeting Protein Kinases and Phosphatases for Therapy 2
- Section 19 Theranostics and Radionuclides / Pharmacologic Approaches
- Section 34 Late-Breaking Research: Experimental and Molecular Therapeutics 2

IMMUNOLOGY

- Section 21 Combination Immunotherapies 1
- Section 22 Combination Immunotherapies 2
- Section 23 Inflammation and Immunity in the Tumor Microenvironment
- Section 24 Modifiers of the Tumor Microenvironment
- Section 25 Novel Preclinical Models for Cancer Immunotherapy

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POPULATION SCIENCES

Section 26 GWAS/Post-GWAS

PREVENTION / EARLY DETECTION / INTERCEPTION

Section 27 Dietary Derivatives and Repurposed and New Drugs for Cancer Prevention

ENDOCRINOLOGY

Section 28 Endocrine-related Cancers and Nuclear Receptors: Molecular Biology, Biomarkers, and Genomics

CHEMISTRY

Section 29 Biological Mass Spectrometry and Systems Biology

Section 30 High-throughput Screening, Lead Identification and Optimization, and in Silico Drug Discovery

BIOINFORMATICS / COMPUTATIONAL BIOLOGY / SYSTEMS BIOLOGY / CONVERGENT SCIENCE

Section 31 Artificial Intelligence and Machine/Deep Learning 1

Section 32 Artificial Intelligence and Machine/Deep Learning 2

Section 33 Artificial Intelligence: From Pathomics to Radiomics

CLINICAL RESEARCH EXCLUDING TRIALS

Section 37 Biomarkers of Therapeutic Benefit 5

Section 38 Combination Therapies for Cancer

Section 39 Community-based Research and Biobanking Research

Section 40 Diagnostic and Prognostic Biomarkers 4

Section 41 Liquid Biopsies: Circulating Nucleic Acids and Circulating Tumor Cells 4

Section 42 New Approaches in Radiodiagnostics and Theranostics

Section 43 Spatial Proteomics and Transcriptomics 1

Section 44 Therapeutic Antibodies, Including Engineered Antibodies

CLINICAL TRIALS

Section 46 Phase I and First-in-Human Clinical Trials in Progress

Section 47 Phase I Clinical Trials 2

NCI-NIH-Sponsored Session • 2:30 p.m.–3:30 p.m.

NOT ELIGIBLE FOR CME CREDIT

Room W314 A, Convention Center

HUMAN CANCER MODELS INITIATIVE: A RESOURCE OF NEXT-GENERATION CANCER MODELS AND DATA

Moderator: Cindy Kyi, Bethesda, MD

- 2:30 p.m. Introduction.** Cindy Kyi, Bethesda, MD
- 2:36 p.m. Human Cancer Models Initiative (HCMI): An overview.** Julyann Perez-Mayoral, Bethesda, MD
- 2:54 p.m. Navigating the HCMI searchable catalog and program resources.** Eva Tonsing-Carter, Bethesda, MD
- 3:12 p.m. Title to be announced.** James Clinton, Gaithersburg, MD

Major Symposium • 2:30 p.m.–4:00 p.m.

Room W315, Convention Center

Regulatory Science and Policy Session
LIQUID BIOPSIES FOR CURATIVE-INTENT SOLID TUMOR
DRUG DEVELOPMENT

Moderators: Reena Philip, Silver Spring, MD; Paz Joan Vellanki, Silver Spring, MD

Panelists: Christopher Abbosh, London, United Kingdom
Valsamo K. Anagnostou, Baltimore, MD
Jonathan Baden, Princeton, NJ
David R. Gandara, Sacramento, CA
Anand Pathak, Silver Spring, MD
Patricia Spears, Raleigh, NC

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Clinical Trials Minisymposium • 2:30 p.m.–4:30 p.m.

Chapin Theater, Convention Center

NOVEL IMMUNOTHERAPY COMBINATION CLINICAL TRIALS

Cochairs: Ecaterina Elena Dumbrava, Houston, TX; Collin D. Weekes, Aurora, CO

- 2:30 p.m. Introduction**
- 2:35 p.m. CT034 GLIMMER-01: initial results from a phase 1 dose escalation trial of a first-in-class bi-sialidase (E-602) in solid tumors.** Jason J. Luke, Pittsburgh, PA
- 2:50 p.m. CT035 Addition of Salmonella-IL2 to FOLFIRINOX for metastatic stage 4 pancreatic cancer nearly doubles median survival.** Daniel A. Saltzman, Cambridge, MA
- 3:05 p.m. CT036 Safety and immunogenicity of a first-in-human mutant KRAS long peptide vaccine combined with ipilimumab/nivolumab in resected pancreatic cancer: Preliminary analysis from a phase I study.** Saurav D. Haldar, Baltimore, MD
- 3:20 p.m. CT037 Nivolumab plus ipilimumab vs chemotherapy as first-line treatment for advanced gastric cancer/gastroesophageal junction cancer/esophageal adenocarcinoma: CheckMate 649 biomarker analyses.** Yelena Y. Janjigian, New York, NY
- 3:35 p.m. CT038 Comprehensive molecular characterization of clinical response to durvalumab plus pazopanib combination in patients with advanced soft tissue sarcomas: A phase 2 clinical trial.** Hyo Song Kim, Seoul, Korea, Republic of
- 3:50 p.m. CT039 Immunomodulatory effects of ceralasertib in combination with durvalumab in patients with NSCLC and progression on anti-PD-(L)1 treatment (HUDSON, NCT03334617).** Sonia Iyer, Boston, MA
- 4:05 p.m. CT040 A first-in-human phase 1 trial of IO-108, an antagonist antibody targeting LILRB2 (ILT4), as monotherapy and in combination with pembrolizumab in adult patients with advanced relapsed or refractory solid tumors: Dose escalation study.** Luke Chung, Palo Alto, CA
- 4:20 p.m. Closing remarks**

CME Minisymposia • 2:30 p.m.–4:30 p.m.

Valencia BC, Convention Center

Bioinformatics / Computational Biology / Systems Biology / Convergent Science

**CLINICAL APPLICATIONS OF ARTIFICIAL INTELLIGENCE AND
MATHEMATICAL ONCOLOGY**

Cochairs: Kristin R. Swanson, Phoenix, AZ; Heiko Enderling, Tampa, FL

2:30 p.m. Introduction

2:35 p.m. 5693 Cancer cells subvert fibroblast function to promote a growth factor enriched tumor microenvironment in endocrine therapy resistant ER+ breast cancer. Jason I. Griffiths, Duarte, CA

2:50 p.m. 5694 Adaptive treatment scheduling of PARP inhibitors in ovarian cancer: Using mathematical modeling to assess clinical feasibility and estimate potential benefits. Maximilian A. Strobl, Tampa, FL

3:05 p.m. 5695 Deep learning risk prediction model of distant recurrence from H&E endometrial cancer slides. Sarah Fremond, Leiden, Netherlands

3:20 p.m. 5696 A prognostic machine learning model for early breast cancer which combines clinical and genetic data in patients treated with neo/adjuvant chemotherapy. Aidan (Amanzhol) Kubeyev, Cambridge, United Kingdom

3:35 p.m. 5697 Predicting response to PD-L1 inhibition in NSCLC using a quantitative systems pharmacology model guided by immunogenomic data. Hanwen Wang, Baltimore, MD

3:50 p.m. 5698 A multicenter study validated an integrated deep learning model for precision malignancy risk assessment and reducing unnecessary biopsies in BI-RADS 4 cases. Chika F. Ezeana, Houston, TX

4:05 p.m. 5699 Development and validation of a quantitative systems pharmacology model for prediction of preclinical efficacy of PARP inhibitors rucaparib and talazoparib combined with the ATR inhibitor gartisertib (M4344). Nathalie Dupuy, Oxford, United Kingdom

4:20 p.m. Closing remarks

Valencia A, Convention Center
Clinical Research Excluding Trials
IMMUNE-BASED BIOMARKERS FOR PROGNOSTIC AND PREDICTIVE BENEFIT

Cochairs: Stephanie K. Dougan, Boston, MA; Hao Wang, Baltimore, MD

- 2:30 pm. Introduction**
- 2:35 p.m. 5701 Predictive biomarker models of immunotherapy response in patients with metastatic melanoma: genomic, transcriptomic, and immune profiles from the Personalised Immunotherapy Program (PIP).** James S. Wilmott, Camperdown, Australia
- 2:50 p.m. 5702 Ovarian cancer tumor microenvironment and atezolizumab (atezo) clinical activity: IMagyn050 sub-study.** Venkatesh Krishnan, South San Francisco, CA
- 3:05 p.m. 5703 The immune cell state atlas analysis predicts therapeutic benefits with immune checkpoint inhibitors.** Tingyi Li, Tampa, FL
- 3:20 p.m. 5704 An integrated immune signature predictive of adjuvant immunotherapeutic benefits for high-risk melanoma.** Ahmad A. Tarhini, Tampa, FL
- 3:35 p.m. 5705 Digital pathology based prognostic & predictive biomarkers in metastatic non-small cell lung cancer.** Assaf Amitai, South San Francisco, CA
- 3:50 p.m. 5706 ImmunoPROFILE: A prospective implementation of clinically validated, quantitative immune cell profiling test identifies tumor-infiltrating CD8+ and PD-1+ cell densities as prognostic biomarkers across a 2,023 patient pan-cancer cohort treated with different therapies.** James Lindsay, Boston, MA
- 4:05 p.m. 5707 Tumor and immune determinants of response to anti-BCMA CAR T-cell therapy in multiple myeloma using cell-free DNA.** Mia Carleton, Stanford, CA
- 4:20 p.m. Closing remarks**

Valencia D, Convention Center

Clinical Research Excluding Trials

INCREASING THE CLINICAL UTILITY OF CELL-FREE DNA TESTING

Cochairs: Luis A. Diaz, New York, NY; Muhammed Murtaza, Madison, WI

- 2:30 pm. Introduction
- 2:35 p.m. 5709 Whole genome error-corrected sequencing for sensitive circulating tumor DNA cancer monitoring. Alexandre P. Cheng, New York, NY
- 2:50 p.m. 5710 Detection and monitoring of t(11;14) in liquid biopsies from patients with relapsed/refractory multiple myeloma treated with venetoclax-based regimens. Jeremy A. Ross, North Chicago, IL
- 3:05 p.m. 5711 Blood-based early detection of non-small cell lung cancer using orphan noncoding RNAs. Mehran Karimzadeh, Palo Alto, CA
- 3:20 p.m. 5712 Anti-TIGIT antibody tiragolumab leverages myeloid cells and regulatory T cells to improve PD-L1 checkpoint blockade. Namrata S. Patil, South San Francisco, CA
- 3:35 p.m. 5713 Assessing the real-world utility of cell-free microbial DNA in diagnosing early-stage lung cancer. Gregory D. Sepich-Poore, San Diego, CA
- 3:50 p.m. 5714 Cell-free DNA fragmentation profiling for monitoring therapeutic response in metastatic colorectal cancer. Bahar Alipanahi, Baltimore, MD
- 4:05 p.m. 5715 Circulating tumor DNA in colorectal cancer patients with resectable liver metastases: Preliminary results of the MIRACLE study. Lissa Wullaert, Rotterdam, Netherlands
- 4:20 p.m. Closing remarks

Room W414, Convention Center

Clinical Research Excluding Trials

THE NEXT WAVE OF PRECISION ONCOLOGY: NEW DRUGS, DATABASES, AND ANALYTICS TO REFINE CARE

Cochairs: Christine M. Lovly, Nashville, TN; Shelley S. Tworoger, Tampa, FL

- 2:30 pm. Introduction
- 2:35 p.m. 5717 Bridging the gap between clinical-omics and machine learning to improve cancer treatment. Chang In Moon, Houston, TX
- 2:50 p.m. 5718 Additivity predicts the clinical efficacy of most approved combination therapies for advanced cancer. Adam C. Palmer, Chapel Hill, NC
- 3:05 p.m. 5719 Clinical response to the PDGFR α inhibitor avapritinib in high-grade glioma patients. Kallen Schwark, Ann Arbor, MI

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- 3:20 p.m. 5720 Combination therapies in matched 3D in vitro and in vivo preclinical models of rare and recalcitrant cancers from the National Cancer Institute's Patient-Derived Models Repository.** Thomas S. Dexheimer, Frederick, MD
- 3:35 p.m. 5721 Automated annotation for large-scale clinigenomic models of lung cancer treatment response and overall survival.** Justin Jee, New York, NY
- 3:50 p.m. 5722 The mutational signatures of 100,477 targeted sequenced tumors.** Bin Zhu, Bethesda, MD
- 4:05 p.m. 5723 An in vivo pharmacogenomics platform replicates and extends biomarkers of therapy response identified via causal inference analysis of clinical data.** Michael J. Rosen, Mountain View, CA
- 4:20 p.m. Closing remarks**

Tangerine Ballroom 3-4 (WF3-4), Convention Center

Experimental and Molecular Therapeutics

MOLECULAR TARGETS

Cochairs: Naoko Takebe, Bethesda, MD; Joann B. Sweasy, Tucson, AZ

- 2:30 pm. Introduction**
- 2:35 p.m. 5725 The USP1 inhibitor I-138 kills BRCA1-deficient tumor cells and overcomes PARP inhibitor resistance.** Alexandre Andre B. A. Da Costa, Cambridge, MA
- 2:50 p.m. 5726 Pan-cancer proteogenomics expands the landscape of therapeutic targets.** Jonathan T. Lei, Houston, TX
- 3:05 p.m. 5727 Identification of synthetic lethal vulnerabilities in cancers with loss of function mutations in NOTCH.** Deli Hong, Boston, MA
- 3:20 p.m. 5728 Inhibition of TACC3 blocks the growth of highly aggressive breast cancers with centrosome amplification.** Ozge Saatci, Charleston, SC
- 3:35 p.m. 5729 Imiquinalines for pancreatic cancer: first-in-class potent and synergistic inhibitors of microtubule polymerisation.** Kevin Bigot, Montpellier, France
- 3:50 p.m. 5730 Targeting intrinsically disordered protein β II-spectrin prevents metabolic syndrome and hepatocellular carcinoma on a sex-based bias.** Xiaochun Yang, New York, NY
- 4:05 p.m. 5731 Apoptosis Inducing Agent 1 enhances cancer therapy-induced apoptosis by direct interaction with BAX and BAK.** Xingping Qin, Boston, MA
- 4:20 p.m. Closing remarks**

Room W224, Convention Center

Experimental and Molecular Therapeutics
NEW TRICKS FOR KNOWN TARGETS: NOVEL APPROACHES TO INHIBIT ONCOGENIC SIGNALING

Cochairs: Janice M. Mehnert, New York, NY; Ryan J. Sullivan, Boston, MA

- 2:30 pm. Introduction**
- 2:35 p.m. 5733 Combining KRASG12C(ON) inhibition with SHP2 and immune checkpoint blockade to enhance anti-tumor immunity and overcome development of resistance in lung cancer.** Miriam Molina-Arcas, London, United Kingdom
- 2:50 p.m. 5734 Designing RAF and MEK inhibitor combinations based on their biochemical properties to effectively target MAPK-driven cancers.** Ana Orive-Ramos, New York, NY
- 3:05 p.m. 5735 Novel KRAS G12D degrader ASP3082 demonstrates in vivo, dose-dependent KRAS degradation, KRAS pathway inhibition, and antitumor efficacy in multiple KRAS G12D-mutated cancer models.** Takeyuki Nagashima, Tsukuba-shi, Japan
- 3:20 p.m. 5736 AZD9592: An EGFR-cMET bispecific antibody-drug conjugate (ADC) targeting key oncogenic drivers in non-small-cell lung cancer (NSCLC) and beyond.** Frank Comer, Gaithersburg, MD
- 3:35 p.m. 5737 Evaluation of the relationship between target expression and in vivo anti-tumor efficacy of AZD9592, an EGFR/c-MET targeted bispecific antibody drug conjugate.** Lara McGrath, Waltham, MA
- 3:50 p.m. 5738 A pan-ras mRNA vaccine elicits specific immune responses and inhibits tumor growth in the mouse model of colon cancer.** Dong Shen, Germantown, MD
- 4:05 p.m. 5739 Targeting WEE1 to improve the therapy of KRAS G12C mutant non-small cell lung cancer.** Gaku Yamamoto, Kashiwa, Chiba, Japan
- 4:20 p.m. Closing remarks**

Tangerine Ballroom 2 (WF2), Convention Center

Immunology
NEW OPPORTUNITIES FOR COMBINATORIAL IMMUNOTHERAPIES

Cochairs: Melissa Q. Reeves, Salt Lake City, UT; Crystal L. Mackall, Stanford, CA

- 2:30 pm. Introduction**
- 2:35 p.m. 5741 Harnessing macrophages, while protecting T cells, enhances anti-tumor efficacy.** Sean A. Yamada-Hunter, Stanford, CA
- 2:50 p.m. 5742 Pharmacologic modulation of RNA splicing enhances anti-tumor immunity.** James D. Thomas, Seattle, WA

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3:05 p.m.	5743	Reprogramming myeloid cells by JAK inhibition to enhance checkpoint blockade immunotherapy. Jaroslav Zak, La Jolla, CA
3:20 p.m.	5744	Decreasing toxicity of immunocytokines by transient and selective inhibition of their intracellular signaling activation. Giulia Rotta, Otelfingen, Switzerland
3:35 p.m.	5745	Proposing the best MET inhibitor to improve anti-PD-1 efficacy in HCC. Ricardo A. de Azevedo, Houston, TX
3:50 p.m.	5746	Flexible tumor-specific cytokine and antigen delivery through the T-SIGn vector platform enables effective CAR-T cell therapy against solid tumors. Maria Stella Sasso, Abingdon, United Kingdom
4:05 p.m.	5747	A novel combination therapy of arenavirus vectors and PD1-IL2v strongly potentiates tumor specific T cell responses resulting in synergistic anti-tumor efficacy. Judith Strauss, New York, NY
4:20 p.m.		Closing remarks

Room W311 A-D, Convention Center

Molecular/Cellular Biology and Genetics

GENE REGULATION AND TRANSCRIPTION FACTORS IN CANCER

Chair: Rosalie C. Sears, Portland, OR

2:30 pm.		Introduction
2:35 p.m.	5749	Core transcriptional regulatory circuitry in a.m.L. Maxim Pimkin, Boston, MA
2:50 p.m.	5750	The mutational landscape of ultraconserved elements in human cancers. Recep Bayraktar, Houston, TX
3:05 p.m.	5751	Single-cell epigenomic analysis reveals an important role of the receptor kinase Ror2 in the erosion of cellular identity during pancreatic carcinogenesis. Simone Benitz, Detroit, MI
3:20 p.m.	5752	Enhancer amplification defines lineage addiction in human lung adenocarcinoma. John Louis Pulice, Boston, MA
3:35 p.m.	5753	RUNX3 disrupts MYC/MAX complex and promotes MYC degradation. Yoshiaki Ito, Singapore, Singapore
3:50 p.m.	5754	Determining the regulatory logic of breast cancer cells using single-cell multi-omics. Hector L. Franco, Chapel Hill, NC
4:05 p.m.	5755	TP63 fusions drive enhancer rewiring, lymphomagenesis, and dependence on EZH2. Gongwei Wu, Boston, MA
4:20 p.m.		Closing remarks

Room W307, Convention Center

Population Sciences
SURVIVORSHIP AND BIOMARKERS OF PROGNOSIS

Cochairs: Jennifer A. Doherty, Salt Lake City, UT; Lauren Cole Peres, Tampa, FL

- 2:30 pm. Introduction
- 2:35 p.m. 5757 Breast cancer diagnosis and treatment associated with acceleration of biological aging over time in a racially diverse cohort of women. Jacob K. Kresovich, Tampa, FL
- 2:50 p.m. 5758 Regular aspirin use, breast tumor characteristics and long-term breast cancer survival. Cheng Peng, Boston, MA
- 3:05 p.m. 5759 Accelerated cardiac aging in adolescent and young adult cancer survivors previously treated with cardiotoxic therapy. Michelle A. T. Hildebrandt, Houston, TX
- 3:20 p.m. 5760 Molecular, immune, and microbial profiles of early-onset, intermediate-onset, and later-onset CRCs. Tomotaka Ugai, Boston, MA
- 3:35 p.m. 5761 Bayesian estimation of a semi-parametric recurrent event model with competing outcomes for personalized risk prediction among cancer survivors. Nam H. Nguyen, Houston, TX
- 3:50 p.m. 5762 New perspective on racial disparities in prostate cancer: identification of new molecular subsets using whole-mount radical prostatectomy. Wei Zhao, Detroit, MI
- 4:05 p.m. 5763 Risk factors, trends, and disparities in HPV-associated subsequent malignant neoplasms among adolescent and young adult cancer survivors. Judy Y. Ou, Salt Lake City, UT
- 4:20 p.m. Closing remarks

Room W304 E-H, Convention Center

Prevention / Early Detection / Interception
BEHAVIORAL AND BIOLOGICAL OPPORTUNITIES TO IMPROVE CANCER PREVENTION, EARLY DETECTION, AND DISPARITIES

Cochairs: Timothy R. Rebbeck, Boston, MA; Andrew K. Godwin, Kansas City, KS

- 2:30 pm. Introduction
- 2:35 p.m. 5765 Promoter DNA methylation patterns in oral, laryngeal, and oropharyngeal anatomical regions are associated with tumor differentiation, nodal involvement, and survival in Latinos. Rafael E. Guerrero-Preston, Baltimore, MD
- 2:50 p.m. 5766 Prospective evaluation of cell-free DNA fragmentomes for lung cancer detection. Victor E. Velculescu, Baltimore, MD
- 3:05 p.m. 5767 Pan-viral response in African Americans and European Americans with hepatocellular carcinoma. Theresa Ewa, Bethesda, MD

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- 3:20 p.m. 5768 Genetic screening in a tertiary medical center identifies carriers of cancer predisposition diseases that would be missed by clinical guidelines.**
Niloy Jewel Samadder, Phoenix, AZ
- 3:35 p.m. 5769 Disparities in uptake of levonorgestrel-releasing intrauterine system (LNG-IUS): implications for uterine cancer primary prevention.**
Paul G. Yeh, Houston, TX
- 3:50 p.m. 5770 Cardiorespiratory fitness and BMI in youth and five-year mortality after site-specific cancer in men: a population-based cohort study with register linkage.** Aron Onerup, Memphis, TN
- 4:05 p.m. 5771 The vaginal microbiome as a mediator in the relationship between Black/White race and high grade cervical intraepithelial neoplasia.**
Katherine Y. Tossas, Richmond, VA
- 4:20 p.m. Closing remarks**

Room W304 A-D, Convention Center

Tumor Biology

NOVEL TARGETS, BIOMARKERS, AND MODELS FOR CANCER

Chair: Kwok-Kin Wong, New York, NY

- 2:30 pm. Introduction**
- 2:35 p.m. 5773 A forward genetic screen identifies SIRT1 as a driver of neuroendocrine prostate cancer.** Francisca Nunes de Almeida, New York, NY
- 2:50 p.m. 5774 Small cell lung cancer subtype plasticity is regulated by KDM6A.**
Matthew G. Oser, Boston, MA
- 3:05 p.m. 5775 GLIS3 drives a neural-like malignant state enriched after neoadjuvant treatment in pancreatic cancer.** Jimmy A. Guo, Cambridge, MA
- 3:20 p.m. 5776 Advancing a screening platform with panels of patient-derived organoid models for drug discovery and development.** Annamaria Rapisarda, Frederick, MD
- 3:35 p.m. 5777 Race as a predictive confounder in the rate of transdifferentiation and drug response in human pancreatic acinar ductal metaplasia.** Corey Melissa Perkins, Gainesville, FL
- 3:50 p.m. 5778 Breast cancer mutations HER2V777L and PIK3CAH1047R activate the p21-CDK4/6 -Cyclin D1 axis driving tumorigenesis and drug resistance.**
Xiaoqing Cheng, St. Louis, MO
- 4:05 p.m. 5779 A platform utilizing high-grade serous ovarian cancer organoids for prospective patient stratification in functional precision medicine.**
Wojciech Senkowski, Copenhagen, Denmark
- 4:20 p.m. Closing remarks**

Tangerine Ballroom 1 (WF1), Convention Center

Tumor Biology

SPATIAL CONSIDERATIONS OF THE 3D TUMOR MICROENVIRONMENT

Cochairs: Paolo P. Provenzano, Minneapolis, MN; Aaron M. Newman, San Mateo, CA

- 2:30 p.m.

Introduction
- 2:35 p.m.

5782 The dynamic immune behavior of primary and metastatic tumors of ovarian cancer. Elaine Stur, Houston, TX
- 2:50 p.m.

5783 Integration of AI-powered digital pathology and imaging mass cytometry to identify relevant features of the tumor microenvironment. Federica Marchesi, Milan, Italy
- 3:05 p.m.

5784 Spatial clustering reveals immune hub interaction with reservoir of stem-like CD8 T cells and predicts immunotherapy response in lung cancer patients. Jonathan Chen, Cambridge, MA
- 3:20 p.m.

5785 A pan-cancer single-cell tumor micro-environment atlas predictive of immunotherapy response. Francesca Lodi, Leuven, Belgium
- 3:35 p.m.

5786 Spatial relationships in the tumor microenvironment predict response to immune checkpoint inhibitors in urothelial and head and neck cancer. Alberto Gil-Jimenez, Amsterdam, Netherlands
- 3:50 p.m.

5787 Modelling the spatial heterogeneity of CD45-positive tumor infiltrating lymphocytes in early-stage, estrogen receptor-positive breast cancer. Zak Kinsella, Dublin, Ireland
- 4:05 p.m.

5788 Single-cell and spatial transcriptomic mapping of human renal cell carcinoma brain metastases uncovers actionable immune-resistance targets. Elshad Hasanov, Houston, TX
- 4:20 p.m.

Closing remarks

CME

Awards and Lectures • 3:45 p.m.–4:30 p.m.

Room W311 E-H, Convention Center

AACR AWARD FOR OUTSTANDING ACHIEVEMENT IN BLOOD CANCER RESEARCH

Chair: Mignon L. Loh, Seattle, WA

3:45 p.m. Introduction. Mignon L. Loh, Seattle, WA

3:50 p.m. Award Lecture. Riccardo Dalla-Favera, New York, NY

*Program as of March 9, 2023. Please check the Annual Meeting App for changes in rooms, times, or speakers.

NCI-NIH-Sponsored Session • 4:00 p.m.–5:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

Room W314 A, Convention Center

OMICCIRCOS IN THE CANCER RESEARCH DATA COMMONS: A VISUALIZATION TOOL FOR BENCH BIOLOGISTS

Moderator: Erika Kim, Bethesda, MD

- 4:00 p.m.** **Cancer Research Data Commons overview.** Erika Kim, Bethesda, MD
- 4:10 p.m.** **Seven Bridges' Cancer Genomics Cloud.** Zelia Worman, Cambridge, MA
- 4:20 p.m.** **OmicCircos introduction and demonstration.** Chunhua Yan, Bethesda, MD
- 4:50 p.m.** **Discussion**

CME

Awards and Lectures • 4:45 p.m.–5:30 p.m.

Room W331, Convention Center

AACR-IRVING WEINSTEIN FOUNDATION DISTINGUISHED LECTURESHIP

Chair: Lisa M. Coussens, Portland, OR

- 4:45 p.m.** **Introduction.** Lisa M. Coussens, Portland, OR
- 4:50 p.m.** **Award Lecture.** Andrea Schietinger, New York, NY

CME

Awards and Lectures • 5:00 p.m.–5:45 p.m.

Room W304 E-H, Convention Center

AACR-ST. BALDRICK'S FOUNDATION AWARD FOR OUTSTANDING ACHIEVEMENT IN PEDIATRIC CANCER RESEARCH

Chair: Jason T. Yustein, Atlanta, GA

- 5:00 p.m.** **Introduction.** Jason T. Yustein, Atlanta, GA
- 5:05 p.m.** **Ewing sarcoma, a paradigm for cell reprogramming in cancer.**
Olivier Delattre, Paris, France

CME Forums • 5:00 p.m.–6:30 p.m.

Room W311 E-H, Convention Center
BEYOND PLATITUDES AND PROCLAMATIONS: MEANINGFUL ENGAGEMENT OF DIVERSE COMMUNITIES IN CANCER RESEARCH

Moderator: Monica Baskin, Pittsburgh, PA

- 5:00 p.m. Moderator Introduction.** Monica Baskin, Pittsburgh, PA
- 5:10 p.m. Be trustworthy: Building Accessible and acceptable cancer research programs.** Erica T. Warner, Boston, MA
- 5:25 p.m. Asian American community engagement in cancer research.** Jiyoung Ahn, New York, NY
- 5:40 p.m. Panel Discussion**

Room W307, Convention Center
BUILDING AND RETAINING THE CANCER WORKFORCE OF THE FUTURE: CHALLENGES, INNOVATION, AND DIVERSITY

Moderator: Cornelia M. Ulrich, Salt Lake City, UT

- 5:00 p.m. Moderator Introduction.** Cornelia M. Ulrich, Salt Lake City, UT
- 5:10 p.m. Diversity pathways to training and workforce development.** Sanya A. Springfield, Rockville, MD
- 5:25 p.m. How can we retain valuable cancer center staff?** Leonidas C. Platanias, Chicago, IL
- 5:40 p.m. Panel Discussion**

Chapin Theater, Convention Center
DRIVING TOWARDS RATIONAL COMBINATION ICT TRIALS

Moderator: Padmanee Sharma, Houston, TX

- 5:00 p.m. Moderator Introduction.** Padmanee Sharma, Houston, TX
- 5:01 p.m. Investigating mechanisms of response and resistance for the development of ICT combinations.** Padmanee Sharma, Houston, TX
- 5:21 p.m. The contribution of agonists to combination immunotherapy for PD-1 resistant cancers.** Elizabeth M. Jaffee, Baltimore, MD
- 5:41 p.m. Rationally designing combination immunotherapy trials: Identifying biomarkers prior to Phase 3.** Thomas Urban Marron, New York, NY
- 6:01 p.m. Panel Discussion**

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Room W311 A-D, Convention Center

WHAT DOES A BIOSTATISTICIAN REALLY THINK OF YOUR STUDY AND WHY?

Moderator: Motomi Mori, Memphis, TN

5:00 p.m. Moderator Introduction. Motomi Mori, Memphis, TN

5:10 p.m. Designing a clinical trial: best practices and pitfalls to avoid.
Christopher Cabanski, San Francisco, CA

5:25 p.m. Statistical considerations of optimal study design and novel data analysis for biomarker discovery research. Yu Shyr, Nashville, TN

5:40 p.m. Panel Discussion

Tangerine Ballroom 1 (WF1), Convention Center

WHAT IS THE FUTURE OF ANTIANGIOGENESIS IN THE ERA OF IMMUNOTHERAPY?

Moderator: Rakesh K. Jain, Boston, MA

5:00 p.m. Moderator Introduction. Rakesh K. Jain, Boston, MA

5:20 p.m. T cell therapy and tumor vasculature: Reciprocal modulation. George Coukos, Lausanne, Switzerland

5:35 p.m. Exploiting endothelial plasticity in promoting anti-tumor immunity: High endothelial venules and tertiary lymphoid-like structures. Gabriele Bergers, Leuven, Belgium

5:50 p.m. Panel Discussion

Career Development Forum • 5:00 p.m.-6:30 p.m.

NOT ELIGIBLE FOR CME CREDIT

Junior Ballroom G, Rosen Centre Hotel

MICR FORUM: HOW TO SUSTAIN EFFORTS PROMOTING DIVERSITY, EQUITY, AND INCLUSION (DEI) IN THE POST-COVID ERA

Cochairs: Gerardo Colon-Otero, Jacksonville, FL; Melissa B. Davis, Atlanta, GA

CME

Awards and Lectures • 5:15 p.m.-6:00 p.m.

Tangerine Ballroom 2 (WF2), Convention Center

AACR JAMES S. EWING-THELMA B. DUNN AWARD FOR OUTSTANDING ACHIEVEMENT IN PATHOLOGY IN CANCER RESEARCH

Chair: Roy A. Jensen, Kansas City, KS

5:15 p.m. Introduction. Roy A. Jensen, Kansas City, KS

5:20 p.m. Award Lecture. Arul M. Chinnaiyan, Ann Arbor, MI

Town Meetings • 6:00 p.m.–8:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

Windermere Y, Hyatt Regency

BIOMARKERS AND EARLY DETECTION TESTS FOR CANCER PREVENTION:
A CANCER PREVENTION WORKING GROUP TOWN HALL MEETING
AND NETWORKING RECEPTION

Chair: Adriana Albini, Milan, Italy

- 6:00 p.m. Networking Reception
- 6:30 p.m. CPWG Working Group Overview. Adriana Albini, Milan, Italy
- 6:40 p.m. Title to be announced. Kala Visvanathan, Baltimore, MD
- 6:55 p.m. Title to be announced. Klaus Pantel, Hamburg, Germany
- 7:10 p.m. Title to be announced. Cornelia M. Ulrich, Salt Lake City, UT
- 7:25 p.m. Panel Discussion
- 7:40 p.m. Networking Reception

Windermere X, Hyatt Regency

INTEGRATING EVOLUTIONARY PRINCIPLES INTO CANCER PATIENT CARE:
A CANCER EVOLUTION WORKING GROUP TOWN HALL MEETING
AND NETWORKING RECEPTION

Cochairs: Frank H. Laukien, Billerica, MA; Charles Swanton, London, United Kingdom

- 6:00 p.m. Networking Reception
- 6:40 p.m. Speakers: Christina Curtis, Stanford University, Stanford, CA
Louis Vermeulen, San Francisco, CA
Additional speakers to be announced
- 7:10 p.m. Panel Discussion
- 7:30 p.m. Networking Reception

Professional Advancement Session • 6:30 p.m.–8:00 p.m.

NOT ELIGIBLE FOR CME CREDIT

Junior Ballroom F, Rosen Centre Hotel

BUILDING AN EFFECTIVE MENTORSHIP TEAM: ESSENTIAL STRATEGIES
AT EVERY STAGE IN YOUR CAREER

Cochairs: Gerardo Colon-Otero, Jacksonville, FL; Sheila Kumari Singh, Dundas, ON, Canada;
Kathleen W. Scotto, New Brunswick, NJ

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WEDNESDAY, APRIL 19*

CME **Meet-the-Expert Sessions • 7:00 a.m.–7:45 a.m.**

Room W314 A, Convention Center

CANCER NEUROSCIENCE: EMERGING HALLMARK OF CANCER

Moran Amit, Houston, TX

Room W312, Convention Center

CELLULAR HIERARCHIES IN THE PANCREATIC TUMOR MICROENVIRONMENT

Mara H. Sherman, New York, NY

Room W315, Convention Center

DIET, METABOLISM, AND CANCER THERAPY

Karen H. Vousden, London, United Kingdom

Room W240, Convention Center

HISTONE MUTATIONS AND EPIGENETIC DEREGLATION IN CANCER: WHAT'S UP DOC?

Nada Jabado, Montréal, QC, Canada

Room W230, Convention Center

HOW TO MOVE THE NEEDLE FORWARD TO CURE: ACUTE LYMPHOBLASTIC LEUKEMIA IN CHILDREN, ADOLESCENTS, AND YOUNG ADULTS

Mignon L. Loh, Seattle, WA

Room W330, Convention Center

UTILIZING GENOMIC TECHNOLOGIES TO STUDY PROSTATE CANCER AND PROSTATE CANCER DISPARITIES

Franklin W. Huang, San Francisco, CA

**Program as of March 9, 2022. Please check the Annual Meeting App for changes in rooms, times, or speakers.

CME **Plenary Session • 8:00 a.m.–10:00 a.m.**

W Hall A2-3, Convention Center

NEW CONCEPTS IN DRUG DISCOVERY AND ENGINEERING

Chair: Sanjay V. Malhotra, Portland, OR

- 8:00 a.m. Chair Introduction.** Sanjay V. Malhotra, Portland, OR
- 8:05 a.m. Engineered proteins as innovative next-generation cancer therapeutics.** Jennifer R. Cochran, Stanford, CA
- 8:27 a.m. To the tumor and beyond: Tales of a holistic miRNA delivery vehicle.** Andrea L. Kasinski, West Lafayette, IN
- 8:49 a.m. What if all your favorite proteins are druggable?** Gregory R. Bowman, Philadelphia, PA
- 9:11 a.m. Employing targeted nanocarriers for cell-selective cancer therapy.** Evan A. Scott, Evanston, IL
- 9:33 a.m. The renaissance of antibody drug conjugates in oncology.** Puja Sapra, Gaithersburg, MD
- 9:55 a.m. Wrap-up and opportunities for the future.** Sanjay V. Malhotra, Portland, OR

Poster Sessions • 9:00 a.m.-12:30 p.m.

NOT ELIGIBLE FOR CME CREDIT

W Halls B-E1, Convention Center

Complete titles and author listings for abstracts in the poster sessions are available in the online Itinerary Planner and the Annual Meeting App.

TUMOR BIOLOGY

- Section 1 Cancer Stem Cells and Therapeutic Resistance
- Section 2 Cell Adhesion and Cell Signaling in Cancer and Drug Resistance
- Section 3 Crosstalk between Cancer Cells, Immune Cells, and Fibroblasts
- Section 4 Immunotherapy and Cellular Interactions in the Tumor Microenvironment
- Section 5 Interactions Between the Microbiome, Cancer Cells, and Tumor Stromal Components
- Section 6 Methods to Measure Clonal Evolution
- Section 7 Tumor-Stromal Cell (Including Immune Cell) Interactions and Therapy Responses

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MOLECULAR/CELLULAR BIOLOGY AND GENETICS

- Section 9 Cyclin-dependent Kinases and Cyclin-dependent Kinase Inhibitors
- Section 10 DNA Methylation Changes in Cancer
- Section 11 Metabolism and Metabolomics of Cancer
- Section 12 Multi-omics Tumor Profiling
- Section 13 Targeting DNA Damage Response and Novel Pathways

EXPERIMENTAL AND MOLECULAR THERAPEUTICS

- Section 15 Apoptosis and Growth Factor Receptors as Therapeutic Targets
- Section 16 Cell Death Pathways and Treatment / Molecular Classification of Tumors for Diagnostics, Prognostics, and Therapeutic Outcomes
- Section 17 DNA Damage Response
- Section 18 DNA Repair / Molecular Classification of Tumors for Diagnostics, Prognostics, and Therapeutic Outcomes / Others
- Section 19 DNA-reactive Agents, HDAC and Methyltransferase Inhibitors, and Tubulin Agents
- Section 20 Epigenetics
- Section 21 Growth Factor Receptors as Therapeutic Targets
- Section 35 Late-Breaking Research: Experimental and Molecular Therapeutics 3

IMMUNOLOGY

- Section 22 Anticancer Immunotherapeutics
- Section 23 Immune Checkpoints
- Section 24 Immune Mechanisms Mediated by Other Therapies
- Section 25 Immunotherapy Strategies and Mechanisms
- Section 36 Late-Breaking Research: Immunology 3

POPULATION SCIENCES

- Section 26 Diet, Alcohol, Tobacco Use, and Other Lifestyle Factors
- Section 27 Novel Factors Associated with Cancer Mortality

PREVENTION / EARLY DETECTION / INTERCEPTION

- Section 28 Early Detection and Molecular Markers of Prevention

BIOINFORMATICS / COMPUTATIONAL BIOLOGY / SYSTEMS BIOLOGY / CONVERGENT SCIENCE

- Section 30 Bioinformatics Applications in Cancer Biology 3
- Section 31 Databases, Platforms, and Tools
- Section 32 Integrative Spatial and Temporal Multi-omics of Cancer

CLINICAL RESEARCH EXCLUDING TRIALS

- Section 34 Late-Breaking Research: Clinical Research 3
- Section 38 Immune Checkpoints
- Section 39 Immune Monitoring and Responses to Therapy
- Section 40 Liquid Biopsies: Circulating Nucleic Acids and Circulating Tumor Cells 5
- Section 41 Preclinical Therapies and Clinical Observations in Pediatric Oncology
- Section 42 Retrospective Clinical Analyses 2
- Section 43 Spatial Proteomics and Transcriptomics 2
- Section 44 Vaccines

CME **Advances in Diagnostics and Therapeutics**
10:15 a.m.–11:45 a.m.

Valencia D, Convention Center

TARGETING EPIGENETIC DYSREGULATION IN THE CLINIC

Chair: Katherine B. Chiappinelli, Washington, DC

- 10:15 a.m. Chair Introduction.** Katherine B. Chiappinelli, Washington, DC
- 10:20 a.m. Mechanisms of gene regulation by chromatin adaptor proteins in leukemia.** Yadira Marie Soto-Feliciano, Cambridge, MA
- 10:45 a.m. Epigenetic regulation of transposable elements to reverse immune evasion in cancer.** Katherine B. Chiappinelli, Washington, DC
- 11:10 a.m. Present challenges and opportunities for epigenetic therapy of thoracic malignancies.** David S. Schrupp, Bethesda, MD
- 11:35 a.m. Panel Discussion**

Room W414, Convention Center

TECHNICAL ADVANCES IN LIQUID BIOPSY AND RARE EVENT DETECTION

Chair: Sunitha Nagrath, Ann Arbor, MI

- 10:15 a.m. Chair Introduction.** Sunitha Nagrath, Ann Arbor, MI
- 10:45 a.m. Novel technologies for highly efficient isolation and analysis of liquid biopsy markers for cancer disease management applications.** Steven Soper, Lawrence, KS
- 11:10 a.m. Title to be announced.** Chwee Teck Lim, Singapore, Singapore
- 10:20 a.m. Advances in technologies for the study of extracellular vesicles and molecular profiling of circulating biomarkers.** Sunitha Nagrath, Ann Arbor, MI
- 11:35 a.m. Panel Discussion**

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Valencia BC, Convention Center

DHARMA MASTER JIANTAI ADVANCES IN LUNG CANCER RESEARCH SESSION: ADVANCES IN NSCLC - MORE TARGETS, MORE DRUGS, AND MORE CELL STATES TO CONSIDER

Chair: Christine M. Lovly, Nashville, TN

- 10:15 a.m. Chair Introduction.** Christine M. Lovly, Nashville, TN
- 10:20 a.m. Novel paradigms for oncogene directed therapies for NSCLC.** Christine M. Lovly, Nashville, TN
- 11:10 a.m. Emerging therapeutic strategies for KRAS-mutant NSCLC.** Ferdinandos Skoulidis, Houston, TX
- 10:45 a.m. Defining cells and cell states in non-small cell lung cancers.** Purushothama Rao Tata, Durham, NC
- 11:35 a.m. Panel Discussion**

Tangerine Ballroom 3-4 (WF3-4), Convention Center

TARGETING ADVANCED PROSTATE CANCER: IDENTIFICATION OF EVOLVING TUMOR VULNERABILITIES

Chair: Joaquin Mateo, Barcelona, Spain

- 10:15 a.m. Chair Introduction.** Joaquin Mateo, Barcelona, Spain
- 10:17 a.m. Chromatin profiles classify castration-resistant prostate cancers suggesting therapeutic targets.** Duo Xu, New York, NY
[AACR NextGen Star]
- 10:37 a.m. Lineage plasticity in prostate cancer: Therapeutic implications.** Himisha Beltran, Boston, MA
- 10:53 a.m. Harnessing the immune system for prostate cancer treatment: Evolving strategies.** Eugene Shenderov, Baltimore, MD
- 11:09 a.m. Defining homologous recombination repair deficient prostate cancer.** Joaquin Mateo, Barcelona, Spain
- 11:25 a.m. Panel Discussion**

Room W312, Convention Center

THE ROLE OF AGING, IMMUNITY, MICROBIOME, AND METABOLISM
IN NEXT GENERATION MELANOMA THERAPEUTICS

Chair: Patrick Hwu, Tampa, FL

- 10:20 a.m.** **Next generation TIL therapy for melanoma.** Patrick Hwu, Tampa, FL
- 10:45 a.m.** **The interplay of host, tumor, and microbial metabolic phenotypes.** Jennifer McQuade, Houston, TX
- 11:10 a.m.** **A race against time: How aging promotes tumor progression.** Ashani T. Weeraratna, Baltimore, MD
- 11:35 a.m.** **Panel Discussion**

CME **Advances in Prevention Research • 10:15 a.m.–11:45 a.m.**

Room W224, Convention Center

STRATEGIES FOR CANCER INTERCEPTION

Chair: Marcia R. Cruz-Correa, San Juan, PR

- 10:15 a.m.** **Introduction.** Marcia R. Cruz-Correa, San Juan, PR
- 10:20 a.m.** **Early detection and interception of lung cancer.** David Paul Carbone, Columbus, OH
- 10:45 a.m.** **Gastric cancer prevention and interception.** Marcia R. Cruz-Correa, San Juan, PR
- 11:10 a.m.** **Early detection and interception in multiple myeloma.** Irene M. Ghobrial, Boston, MA
- 11:35 a.m.** **Panel Discussion**

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CME

Major Symposia • 10:15 a.m.–11:45 a.m.

Valencia A, Convention Center

CANCER ECOSYSTEM: MALIGNANT CELLS, MICROENVIRONMENT AND MORE

Chair: Benjamin Izar, New York, NY

- 10:15 a.m. Chair Introduction.** Benjamin Izar, New York, NY
- 10:18 a.m. Dissecting the ecosystem of human brain metastasis.** Benjamin Izar, New York, NY
- 10:38 a.m. ContactTracing the impact of chromosomal instability (CIN) on the tumor ecosystem.** Ashley M. Laughney, New York, NY
- 10:58 a.m. Autologous humanized PDX modeling for immuno-oncology recapitulates the human tumor microenvironment.** Michael Chiorazzi, New Haven, CT [AACR NextGen Star]
- 11:18 a.m. Intersection of type 2 immunity and microbiome in cancer.** Prasenjit Dey, Buffalo, NY
- 11:38 a.m. Panel Discussion**

Tangerine Ballroom 2 (WF2), Convention Center

ENGINEERED T CELLS FOR SOLID TUMORS

Chair: Eric Tran, Portland, OR

- 10:15 a.m. Chair Introduction.** Eric Tran, Portland, OR
- 10:20 a.m. Towards the development of synthetic immunity to cancer.** Kole Roybal, San Francisco, CA
- 10:45 a.m. Engineering a potent T-cell response against solid tumors.** Cristina Puig Saus, Los Angeles, CA
- 11:10 a.m. TCR-gene therapy targeting driver mutations.** Eric Tran, Portland, OR
- 11:35 a.m. Panel Discussion**

Room W311 E-H, Convention Center

GLOBAL CANCER BURDEN: CHALLENGES AND OPPORTUNITIES FOR INNOVATION

Chair: Sharmila Anandasabapathy, Houston, TX

- 10:15 a.m. Chair Introduction.** Sharmila Anandasabapathy, Houston, TX
- 10:20 a.m. Global cancer in 2023: Innovation and approach to screening and early detection.** Sharmila Anandasabapathy, Houston, TX
- 10:35 a.m. Feasibility of topical self-administered therapies to improve cervical precancer treatment outcomes among women living with HIV in low-and middle-income countries.** Chemtai Mungo, Durham, NC
[AACR NextGen Star]
- 10:50 a.m. Perspectives in radiation oncology: Gaps and opportunities.** Surbhi Grover, Philadelphia, PA
- 11:05 a.m. Lessons from the field: Oncologic care in Africa.** Fredrick C. Asirwa, Uasin Gishu County, Kenya
- 11:20 a.m. Panel Discussion**

Room W311 A-D, Convention Center

MODELING CANCER EVOLUTIONARY DYNAMICS: THE INTERFACE OF BIG DATA, SIMULATIONS AND AI

Chair: Paul Newton, Los Angeles, CA

- 10:15 a.m. Chair Introduction.** Paul Newton, Los Angeles, CA
- 10:20 a.m. Integrating evolutionary dynamics into cancer therapy.** Robert A. Gatenby, Tampa, FL
- 10:45 a.m. Mathematical models of evolutionary dynamics and reinforcement learning approaches to chemotherapy design.** Paul Newton, Los Angeles, CA
- 11:10 a.m. Spatial computational modeling of tumor evolution to predict disease progression.** Christina Curtis, Stanford, CA
- 11:35 a.m. Panel Discussion**

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Tangerine Ballroom 1 (WF1), Convention Center

SYSTEMIC EFFECTS OF CANCER

Chair: Tobias Janowitz, Cold Spring Harbor, NY

10:15 a.m. Introduction

10:18 a.m. Heterogeneous mechanisms of muscle wasting in cancer cachexia.

Erin Elizabeth Talbert, Iowa City, IA

10:41 a.m. Altered calcium signaling in cancer: PTHrP-KRAS collateral amplification governs pancreatic cancer metastasis, cachexia, and immunosuppression.

Jason Robert Pitarresi, Worcester, MA

[AACR NextGen Star]

10:59 a.m. Tumor-directed inflammatory and metabolic alteration of the host. Eileen P.

White, New Brunswick, NJ

11:22 a.m. Neuroendocrine and immunological consequences of cancer progression.

Tobias Janowitz, Cold Spring Harbor, NY

CME

Plenary Session • 12:00 p.m.–1:25 p.m.

Chapin Theater, Convention Center

AACR ANNUAL MEETING 2023 HIGHLIGHTS: VISION FOR THE FUTURE

Chair: Robert H. Vonderheide, Philadelphia, PA

12:00 p.m. Introduction. Robert H. Vonderheide, Philadelphia, PA

12:05 p.m. Basic cancer science and translational research. Sheila A. Stewart,

St. Louis, MO

12:30 p.m. Prevention, early detection, population sciences, and disparities research.

Elizabeth A. Platz, Baltimore, MD

12:55 p.m. Clinical research and clinical trials. Shivaani Kummar, Portland, OR

1:20 p.m. Wrap-up and opportunities for the future. Robert H. Vonderheide,

Philadelphia, PA

SCHOLAR AWARDS

AACR Scholar-in-Training Awards

2023 AACR SCHOLAR-IN-TRAINING AWARDS SUPPORTED BY AN INDEPENDENT EDUCATIONAL GRANT FROM ABBVIE

Early career investigators who will be presenting meritorious abstracts at the AACR Annual Meeting 2023 were generously supported by an independent educational grant from AbbVie.

Mwangala Akamandisa, PhD, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA. **Abstract 1183**. Mutation type and location in breast cancer susceptibility genes are associated with differential risk in the general population.

Shankara K. Anand, MS, Broad Institute of MIT and Harvard, Cambridge, MA. **Abstract 3132**. CLUMPS-PTM: Spatial clustering of post-translational modifications across cancer types.

Jana Biermann, PhD, Columbia University Irving Medical Center, New York, NY. **Abstract 109**. Multi-modal single-cell analysis of immunotherapy-experienced cutaneous and mucosal melanoma.

Liang Chang, PhD, Broad Institute of MIT and Harvard, Cambridge, MA. **Abstract 1175**. Systematic profiling of conditional pathway activation as a new class of cancer dependency.

Taek-Chin Cheong, PhD, Boston Children's Hospital and Harvard Medical School, Boston, MA. **Abstract 313**. Mechanisms of oncogenic tyrosine kinase fusion formation and selection in human cancers.

Janine M. DeBlasi, MS, Moffitt Cancer Center, Tampa, FL. **Abstract 12**. Distinct Nrf2 signaling thresholds mediate lung tumor initiation and progression.

Nathaniel Deboever, MD, UT MD Anderson Cancer Center, Houston, TX. **Abstract 726**. Machine learning prediction of financial toxicity in patients with resected lung cancer.

Francisco Exposito, PhD, Center for Applied Medical Research (CIMA), University of Navarra/CIBERONC, ISCIII/Yale University School of Medicine, New Haven, CT. **Abstract 1124**. PTEN loss confers resistance to anti-PD-1 therapy in NSCLC by increasing tumor infiltration of T regulatory cells.

Jimmy A. Guo, BA, Broad Institute of MIT and Harvard, Cambridge, MA. **Abstract 5775**. GLIS3 drives a neural-like malignant state enriched after neoadjuvant treatment in pancreatic cancer.

Deli Hong, PhD, Dana-Farber Cancer Institute, Brookline, MA. **Abstract 5727**. Identification of synthetic lethal vulnerabilities in cancers with loss of function mutations in NOTCH.

Lucas Zhongming Hu, PhD, Columbia University Irving Medical Center, New York, NY. **Abstract 1119**. Systems pharmacology approaches to study tumor drug mechanism of action.

Kelsey E. Huntington, BS, Brown University, Providence, RI. **Abstract 5636**. Multiplex digital spatial profiling (DSP) of proteins in the tumor microenvironment in response to GSK-3 inhibition by 9-ING-41 (elraglusib) correlates with novel immunostimulatory effects observed in vivo.

Neel Jasani, MS, Moffitt Cancer Center, Tampa, FL. **Abstract 1159**. BRAF-mediated PHGDH induction establishes a metabolic vulnerability in melanoma.

Jiexi Li, MS, UT MD Anderson Cancer Center, Houston, TX. **Abstract 3515**. Histone demethylase KDM5D drives sex-specific differences in colorectal cancer.

Chang-Ching Lin, PhD, UT Southwestern Medical Center, Dallas, TX. **Abstract 3934.** PRMT5 is an actionable target in CDK4/6 inhibitor-resistant ER+/Rb-deficient breast cancer.

Runying Long, MS, The University of Hong Kong, Hong Kong, Hong Kong. **Abstract 617.** Oncogenic CXCL10 triggers CD8+ T cell exhaustion in ovarian cancer.

Renya Moses, BS, University of Pennsylvania, Philadelphia, PA. **Abstract 2608.** Defining the function of tumor suppressor p53 arginine 181 residue in tumorigenesis.

Aron Onerup, MD, PhD, St. Jude Children's Research Hospital, Memphis, TN. **Abstract 5770.** Cardiorespiratory fitness and BMI in youth and five-year mortality after site-specific cancer in men: a population-based cohort study with register linkage.

Zahraa Rahal, MD, UT MD Anderson Cancer Center, Houston, TX. **Abstract 2883.** Gut microbiome dysbiosis promotes immune suppression and lung cancer development.

Ozge Saatci, MS, The Medical University of South Carolina (MUSC), Charleston, SC. **Abstract 5728.** Inhibition of TACC3 blocks the growth of highly aggressive breast cancers with centrosome amplification.

David T. Severson, MD, DPhil, Brigham and Women's Hospital, Boston, MA. **Abstract 95.** Uncommitted cells and phenotypic plasticity elucidate the complexity of the epithelial-mesenchymal molecular gradient of pleural mesothelioma.

Mengyao Shi, MPH, Washington University School of Medicine, St. Louis, MO. **Abstract 739.** Alcohol consumption patterns among US cancer survivors: A cross-sectional study of the All of Us Research Program.

Rebecca Simpson, BS, Melanoma Institute Australia, The University of Sydney, Sydney, Australia. **Abstract 3463.** Longitudinal microbiome-immune dynamics in melanoma patients treated with immune checkpoint inhibitor immunotherapy.

Maximilian A. R. Strobl, PhD, Moffitt Cancer Center, Tampa, FL. **Abstract 5694.** Adaptive treatment scheduling of PARP inhibitors in ovarian cancer: Using mathematical modeling to assess clinical feasibility and estimate potential benefits.

Ankur Tiwari, MBBS, UT Health Science Center at San Antonio, San Antonio, TX. **Abstract 2679.** Combination of CDK 4/6 inhibitor palbociclib with rapamycin synergistically inhibits growth of hepatocellular carcinoma in preclinical models.

Tomotaka Ugai, MD, PhD, Brigham and Women's Hospital, Boston, MA. **Abstract 5760.** Molecular, immune, and microbial profiles of early-onset, intermediate-onset, and later-onset CRCs.

Hanwen Wang, MS, Johns Hopkins University School of Medicine, Baltimore, MD. **Abstract 5697.** Predicting response to PD-L1 inhibition in NSCLC using a quantitative systems pharmacology model guided by immunogenomic data.

Jaroslav Zak, DPhil, PhD, The Scripps Research Institute, La Jolla, CA. **Abstract 5743.** Reprogramming myeloid cells by JAK inhibition to enhance checkpoint blockade immunotherapy.

Chao Zhang, PhD, Moffitt Cancer Center, Tampa, FL. **Abstract 3465.** HDAC8 regulates immune escape in melanoma through increased transcription of inhibitory cytokines that increase accumulation of myeloid-derived suppressor cells (MDSCs).

SCHOLAR AWARDS | Scholar-in-Training (cont'd)

2023 AACR-AMERICAN BRAIN TUMOR ASSOCIATION SCHOLAR-IN-TRAINING AWARDS

The American Brain Tumor Association has graciously donated funds to support young investigators who will be presenting high-quality abstracts in brain cancer research for both primary and secondary (metastatic) brain tumors at the AACR Annual Meeting 2023.

Daniel Azorín, MS, Neurology Clinic and National Center for Tumor Diseases, University Hospital Heidelberg. Clinical Cooperation Unit Neurooncology, German Cancer Consortium (DKTK), German Cancer Research Center (DKFZ), Heidelberg, Germany. **Abstract 1084**. AI-aided drug development for disconnecting glioma tumor microtubule networks.

Anne-Florence Blandin, PhD, Dana-Farber Cancer Institute, Boston, MA. **Abstract 1201**. ALK amplification and rearrangements are recurrent targetable events in congenital and adult glioblastoma.

Syed M. Faisal, PhD, University of Michigan Medical School, Ann Arbor, MI. **Abstract 5835**. Targeting discoidin domain receptor 1 (DDR1) reverses glioma immune suppression by remodeling collagen fiber architecture.

Toshiro Hara, PhD, Massachusetts General Hospital and Harvard Medical School, Charlestown, MA. **Abstract 1246**. Single-cell profiles of multiplexed in vivo models facilitate the characterization of phenotypic plasticity and invasion in glioblastoma.

Mariam Lotfy Khaled, PhD, H. Lee Moffitt Cancer Center, Tampa, FL. **Abstract 1192**. Branched-chain keto acids exert an immune-suppressive and neurodegenerative microenvironment in CNS leptomeningeal lymphoma.

Yamhilette Licon Munoz, PhD, University of New Mexico Health Sciences Center, Albuquerque, NM. **Abstract 5802**. The impact of tumor-treating fields on cancer stem-like cells isolated from the sub-ventricular zone of glioblastoma patients.

Sandhya Prabhakaran, PhD, H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL. **Abstract 6614**. Spatial transcriptomic driven mechanistic model to investigate and predict pathogenesis of oligodendroglioma.

Uday Pratap, PhD, UT Health Science Center at San Antonio, San Antonio, TX. **Abstract 1718**. Development of potent estrogen receptor beta agonists for treating glioblastoma.

2023 AACR-BREAST CANCER RESEARCH FOUNDATION SCHOLAR-IN-TRAINING AWARDS *in Memory of Rebecca Scheinkman*

The Breast Cancer Research Foundation has graciously donated funds to support young investigators who will be presenting high quality abstracts in breast cancer research at the AACR Annual Meeting 2023. This year, this funding has been given by the Breast Cancer Research Foundation to honor the memory of Rebecca Scheinkman.

Pin-Ji Lei, PhD, Massachusetts General Hospital, Harvard Medical School, Boston, MA. **Abstract 1298**. Single cell analysis of breast cancer progression and metastasis to lymph nodes reveals cancer cell plasticity and MHC class II-mediated immune regulation.

Praful R. Nair, PhD, Johns Hopkins University, Baltimore, MD. **Abstract 3608**. MLL1 regulates cytokine-driven cell migration and metastasis.

2023 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 abstracts at the AACR Annual Meeting 2023.

Majd Al Assaad, MD, New York Presbyterian Hospital Weill Cornell University Medical Center, New York, NY. **Abstract 3437**.

Whole genome and transcriptome sequencing of a pan cancer cohort unearths novel therapeutic avenues.

Alaina Bever, BS, Harvard T.H. Chan School of Public Health, Boston, MA. **Abstract 3006**. Metabolomic signatures of metabolic disturbance and inflammation in relation to colorectal cancer risk.

Bina Desai, MS, H. Lee Moffitt Cancer Center, Tampa, FL. **Abstract 552**. Stromal facilitated multifactorial resistance to tumor cells against targeted therapies in ALK+ NSCLC.

Guochong Jia, PhD, Vanderbilt University Medical Center, Nashville, TN. **Abstract 1180**. Identification of target proteins for breast cancer genetic risk loci and blood risk biomarkers in a large study by integrating genomic and proteomic data.

Panagiotis Karras, PhD, VIB-KU Leuven Center for Cancer Biology, Leuven, Belgium. **Abstract 103**. Dissecting cell state diversity during melanoma growth and metastasis.

Guodong Lian, MD, PhD, Columbia University Medical Center, New York, NY. **Abstract 3496**. p53 mutation biases SCJ progenitor cells towards dysplasia rather than metaplasia in Barrett's esophagus.

Anjali Mittal, MS, University of Michigan, Ann Arbor, MI. **Abstract 1160**. A machine learning based method for in-vivo metabolic flux analysis of patient tumors.

Béga Murray, MS, National Cancer Institute, Bethesda, MD. **Abstract 3563**. SWI/SNF-associated DPFI is a unique transcriptional regulator of malignant peripheral nerve sheath tumors.

Anthony T. Nguyen, MD, PhD, Cedars-Sinai Medical Center, Los Angeles, CA. **Abstract 6409**. Non-redundant mechanisms of immune resistance to radiotherapy converge on innate immunity.

Jeffrey Patterson-Fortin, MD, PhD, Dana-Farber Cancer Institute, Boston, MA. **Abstract 6190**. Polymerase theta inhibition activates the cGAS-STING pathway and cooperates with immune checkpoint blockade in BRCA-deficient cancers.

Gilbert J. Rahme, PhD, Dana-Farber Cancer Institute, Boston, MA. **Abstract 3479**. Modeling epigenetic lesions that cause gliomas.

Martin Rotbauer, BS, Princess Margaret Cancer Centre, Toronto, ON, Canada. **Abstract 90**. Exploring the role of common circulating tumor cell-associated genes in estrogen receptor-positive breast cancer recurrence.

Thinh N. Tran, MS, Memorial Sloan Kettering Cancer Center, New York, NY. **Abstract 4259**. Identification of anti-neoplastic therapy given before initial visit at a referral center using natural language processing applied to medical oncology initial consultation notes.

Danh D. Truong, PhD, UT MD Anderson Cancer Center, Houston, TX. **Abstract 1196**. The epigenetic impact and therapeutic opportunity of AR-directed therapy for DSRCT.

SCHOLAR AWARDS | Scholar-in-Training (cont'd)

Bogang Wu, PhD, Massachusetts General Hospital Cancer Center, Harvard Medical School, Boston, MA. **Abstract 1696.**

Systematic identification of pathways associated with antibody drug conjugate sensitivity in breast cancer.

Yiming Wu, PhD, City of Hope National Medical Center, Duarte, CA. **Abstract 3482.**

METTL3-mediated m6A modification controls splicing factor abundance and contributes to CLL progression.

Xiaofei Zhi, MD, PhD, Irving Cancer Research Center, Columbia University Medical Center, New York, NY. **Abstract 1193.** Sensory innervation directly promotes gastric cancer and modulates the tumor microenvironment.

2023 AACR-SCHOLAR-IN-TRAINING AWARDS SUPPORTED BY AN INDEPENDENT EDUCATIONAL GRANT FROM DAIICHI SANKYO

Early career investigators who will be presenting meritorious abstracts at the AACR Annual Meeting 2023 were generously supported by an independent educational grant from Daiichi Sankyo.

Lindsay A. Caprio, BS, Columbia University Irving Medical Center, New York, NY.

Abstract 5944. Relief of chromosomal instability-induced cGAS-STING signaling sensitizes STK11-mutant non-small cell lung cancer to immune checkpoint blockade.

Mohamed Gouda, MD, The University of Texas MD Anderson Cancer Center, Houston, TX. **Abstract 1173.** Landscape of 4,506 pan-cancer samples harboring BRAFV600E mutations, and NTRK/RET Fusions from 137,401 adult patients with cancer: Clinical implications for tissue agnostic therapies.

Christopher R. Grant, MS, University of California Irvine Medical Center, Orange, CA. **Abstract 4404.** Survival impact and trends of immunotherapy use in metastatic merkel cell carcinoma in the checkpoint era: analysis of a large database.

Justin Jee, MD, PhD, Memorial Sloan Kettering Cancer Center, New York, NY. **Abstract 5721.** Automated annotation for large-scale clinico-genomic models of lung cancer treatment response and overall survival.

M. Haidar Kasem, MS, German Cancer Research Center, Heidelberg, Germany. **Abstract 136.** Single cell lineage analysis reveals clonal evolution and dynamic intra-clonal gene expression states during colorectal cancer progression.

Sungsoo Kim, PhD, Columbia University Irving Medical Center, New York, NY. **Abstract 3876.** Kinetics of RTK activation determine ERK signaling dynamics and resistance to BRAF and MEK inhibitors.

Blair V. Landon, BS, Johns Hopkins University School of Medicine, Baltimore, MD. **Abstract 3374.** Circulating cell-free tumor DNA dynamics capture minimal residual disease with neoadjuvant immune checkpoint blockade plus chemoradiotherapy for patients with operable esophageal/gastroesophageal junction cancer.

Xuebing Leng, MS, MPH, University of Miami Miller School of Medicine, Miami, FL. **Abstract 3807.** MicroRNA-29a synergizes with PD-1 therapy to regulate anti-tumor immunity.

Benjamin B. Morris, PhD, UT MD Anderson Cancer Center, Houston, TX. **Abstract 6115.** Comprehensive DNA repair landscape analysis reveals novel small cell lung cancer biology.

Somnath Tagore, PhD, Columbia University, New York, NY. **Abstract 3517.** Multi-modal single-cell and spatial genomics reveals genomic, adaptive and microenvironmental features of human non-small cell lung cancer brain metastasis.

Shengzhe Zhang, PhD, The University of Texas MD Anderson Cancer Center, Houston, TX. **Abstract 1714.** CRACD/KIAA1211 loss drives cell plasticity and immune evasion of small cell lung cancer.

2023 AACR-DOREEN J. PUTRAH CANCER RESEARCH FOUNDATION SCHOLAR-IN-TRAINING AWARDS

These awards are presented to early career investigators of meritorious abstracts to be presented at the AACR Annual Meeting 2023. These awards are made possible through a gracious donation from the Doreen J. Putrah Cancer Research Foundation.

Ganesh Acharya, MS, Texas Tech University Health Sciences Center, Lubbock, TX.

Abstract 2667. PARG inhibition augments CHK1 inhibitor-induced replication stress and synergistically kills ovarian cancer cells.

Vincent Bernard, MD, PhD, UT MD Anderson Cancer Center, Houston, TX. **Abstract 1096.**

Single cell transcriptomic sequencing of pancreatic ductal adenocarcinoma reveals an enrichment of immunosuppressive pathways in patients at high risk for early local progression following stereotactic body radiation therapy.

Carla Bertulfo, MPhil, Columbia University Irving Medical Center, New York, NY.

Abstract 3928. Therapeutic targeting of NOTCH1 and neddylation pathway in T cell acute lymphoblastic leukemia.

Nilanjana Chatterjee, PhD, UCSF - University of California San Francisco, San Francisco, CA. **Abstract 3878.** Targeting Hippo-YAP, BRD4 and RAS-MAPK interplay in lung cancer to forestall drug resistance.

Francesca Citron, PharmD, PhD, UT MD Anderson Cancer Center, Houston, TX.

Abstract 303. DPY30 loss leads to DNA re-replication and immunoediting in pancreatic ductal adenocarcinoma.

Guangzheng Deng, MS, The Chinese University of Hong Kong, Hong Kong, Hong Kong. **Abstract 2574.** An exon-skipping HDAC1 novel isoform promotes colorectal carcinogenesis.

SeongJun (James) Han, PhD, Harvard University, Boston, MA. **Abstract 5149.** Age-associated remodeling of anti-tumor T cell immunity and metabolism.

Xue-Yan He, PhD, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.

Abstract 62. Untangling the connection between stress and metastatic breast cancer.

Yoshinobu Konishi, MD, PhD, DFCI/ Harvard Medical School, Brookline, MA.

Abstract 796. Altered immune response to vaccination in patients with plasma cell premalignancy.

Felix Korell, MD, Massachusetts General Hospital Cancer Center, Harvard Medical School, Boston, MA. **Abstract 4098.**

Chimeric antigen receptor (CAR) T cells overexpressing Bcl-xL increase proliferation and antitumor activity alone and in combination with BH3 mimetics.

Jens Luebeck, PhD, UC San Diego, La Jolla, CA. **Abstract 3130.**

Extrachromosomal DNA in the cancerous transformation of Barrett's esophagus.

SCHOLAR AWARDS | Scholar-in-Training (cont'd)

Claudia Manriquez Roman, MS, Mayo Clinic, Rochester, MN. **Abstract 5074**. Addition of MAPK inhibitors to prime and sensitize poorly differentiated thyroid cancers as a strategy to improve TSHR-CART cell therapy antitumor activity.

Katherine E. Masih, BS, National Institutes of Health (NIH), Bethesda, MD. **Abstract 1199**. Discovery of subtype-specific and therapy associated effects on the tumor immune microenvironment in pediatric neuroblastoma.

Nicole M. Mattson, BA, Beckman Research Institute of The City of Hope, Monrovia, CA. **Abstract 6234**. Targeting integrin alpha V beta 5 heterodimer stability using a novel small molecular inhibitor for tumor suppression.

Siddharth Mehra, PhD, University of Miami, Miami, FL. **Abstract 653**. Tumor cell-macrophage crosstalk drives immune suppression in pancreatic cancer.

Jayanta Mondal, BE, The University of Texas MD Anderson Cancer Center, Houston, TX. **Abstract 1294**. Loss of bromodomain-7 (BRD7) promotes breast cancer lung metastasis by reprogramming the tumor immune microenvironment.

Nicole Peiris, PhD, Harvard Medical School, Massachusetts General Hospital, Boston, MA. **Abstract 4353**. Utilizing scRNA sequencing to understand biomarkers of response and resistance to Sacituzumab Govetican in localized TNBC.

Moez Rathore, PhD, Case Western Reserve University School of Medicine, Cleveland, OH. **Abstract 3636**. Liver endothelium secreted LRG1 promotes metastatic colorectal cancer growth through the HER3/RSK/EIF4B AXIS.

David Requena, MS, Rockefeller University, New York, NY. **Abstract 1516**. Bulk and spatial single-cell transcriptomic characterization of fibrolamellar hepatocellular carcinoma.

Thomas Simon, PhD, USC - University of Southern California, Los Angeles, CA. **Abstract 5842**. Determining the tumor supportive and inhibitory capabilities of cancer associated fibroblast subpopulations in central nervous system metastasis.

Ian Sutton, BS, National Cancer Institute, Bethesda, MD. **Abstract 2413**. Glioblastoma stem-like cells are resistant to the negative effects of increased aneuploidy on in vitro survival and radiosensitivity.

Max M. Wang, MPH, Northwestern University, Evanston, IL. **Abstract 2714**. Inhibiting Myc using heterofunctional polymeric degrading chimeras (HYDRACs): a novel class of compounds capable of targeted protein degradation.

Nicholas K. Wang, MHS, UCLA - University of California Los Angeles, Los Angeles, CA. **Abstract 4305**. Germline structural variants shape prostate cancer clinical and molecular evolution.

Adam C. Weiner, BS, Memorial Sloan Kettering Cancer Center, New York, NY. **Abstract 3122**. Single-cell DNA replication dynamics for genomically unstable cancer cells.

Saigopalakrishna S. Yerneni, PhD, Carnegie Mellon University, Pittsburgh, PA. **Abstract 836**. Enabling mRNA Medicine for Brain Tumors.

2023 AACR-JUNE L. BIEDLER SCHOLAR-IN-TRAINING AWARDS

These awards are presented to authors of meritorious abstracts to be presented at the AACR Annual Meeting 2023. These awards are made possible through the Estate of Dr. June L. Biedler. 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.

Delia Friel, MS, DFCl/Harvard Medical School, Boston, MA. **Abstract 3875.** Evaluation of resistance mechanisms to ARV471, an ER-targeted PROTAC.

Sushanta Halder, MPharm, University of Nebraska Medical Center, Omaha, NE. **Abstract 1756.** Novel first-in-class oral small molecule inhibitor EC914 overcomes docetaxel-resistance by inhibiting LIFR/c-Myc axes in CRPC.

Chendi Li, PhD, Massachusetts General Hospital, Charlestown, MA. **Abstract 3868.** Aurora kinase A inhibition overcome adaptive resistance to KRAS G12C inhibitor by G1-checkpoint induced apoptosis in KRAS non-small cell lung cancer.

Pooja A. Shah, PhD, UT MD Anderson Cancer Center, Houston, TX. **Abstract 2847.** Concurrent inactivation of PI3K and PLK1 is synergistic and overcomes acquired resistance to PI3K inhibitors in NOTCH1MUTHNSCC.

David Alejandro Terrero, MD, University of Toledo, Toledo, OH. **Abstract 2846.** The mitochondrial dynamics of breast cancer regulate P-glycoprotein expression.

2023 AACR-LUDWIG INSTITUTE FOR CANCER RESEARCH SCHOLAR-IN-TRAINING AWARD

These awards were funded by a generous donation from Ludwig Institute for Cancer Research to early career scientist presenting exceptional research at the AACR Annual Meeting 2023.

Jonathan M. Downie, MD, PhD, Harvard Medical School/Massachusetts General Hospital, Somerville, MA. **Abstract 5247.** The effect of aspirin on the transcriptional landscape of the colon.

Alvaro Curiel Garcia, PhD, Columbia University Irving Medical Center, New York, NY. **Abstract 4803.** BMAL2 is a KRAS-dependent master regulator of hypoxic response in pancreatic ductal adenocarcinoma.

Brendan T. Heiden, MD, MPHS, Washington University in St. Louis, St. Louis, MO. **Abstract 734.** Comprehensive validation of high-risk clinicopathologic features in early-stage, node-negative non-small cell lung cancer.

Susana Castro Pando, BS, UT MD Anderson Cancer Center, Houston, TX. **Abstract 1188.** IL-17/IL-17RA signaling in the pancreatic epithelium upregulates B7-H4 to promote tumorigenesis.

Jaime L. Schneider, MD, PhD, MGH/Harvard Medical School, Boston, MA. **Abstract 1156.** GUK1 is a novel metabolic liability in oncogene-driven lung cancer.

Carli M. Stewart, BS, Mayo Clinic, Rochester, MN. **Abstract 1153.** IL-4 depletion leads to the improvement of CART cell therapy.

SCHOLAR AWARDS | Scholar-in-Training (cont'd)

2023 AACR-MARGARET FOTI FOUNDATION SCHOLAR-IN-TRAINING AWARDS

Through a generous gift of The Margaret Foti Foundation, these awards recognize outstanding young investigators for their meritorious work in head and neck, lung, ovarian, pancreatic, prostate, and pediatric brain cancer research.

Naheed Arfin Borah, MTech, L V Prasad Eye Institute, Bhubaneswar, India. **Abstract 1200.** Aurora kinase A is a potential therapeutic target regulated by the MYCN oncogene in human retinoblastoma.

Pushpamali De Silva, PhD, Massachusetts General Hospital and Harvard Medical School, Boston, MA. **Abstract 3228.** Photodynamic priming enhances immunotherapy responses overcoming oncogenic drivers in pancreatic patient derived tumor organoids.

Soma Ghosh, PhD, UT MD Anderson Cancer Center, Houston, TX. **Abstract 1564.** Novel combination of TRIP13 and Aurora kinase A inhibition demonstrated extensive DNA damage and immunogenic cell death in RB-deficient cancers.

Ruida Hou, MD, University of Tennessee Health Science Center, Memphis, TN. **Abstract 4923.** Prostaglandin E2 receptor EP2: A novel target for high-risk neuroblastoma.

Mohammed L. Ibrahim, PhD, H. Lee Moffitt Cancer Center, Tampa, FL. **Abstract 3264.** Sotorasib, a selective G12C K-RAS inhibitor, modulates the tumor microenvironment to promote TNF α and IFN γ signaling and augment immunotherapy response.

Grégoire Marret, MD, Institut Curie, Paris, France. **Abstract 3363.** Spatial and longitudinal tumor heterogeneity in head and neck squamous cell carcinoma patients treated with primary surgery.

Kinza Rizwan, PhD, Baylor College of Medicine, Houston, TX. **Abstract 1705.** SPOP: An essential gene for normal and prostate tumor cells.

Nilesh Prakash Talele, PhD, Harvard Medical School/Massachusetts General Hospital, Norwood, MA. **Abstract 4416.** IL-1 blockade prevents cardiac toxicity and improves immunotherapy efficacy.

Ignacio Vázquez-García, PhD, Memorial Sloan Kettering Cancer Center, New York, NY. **Abstract 102.** Transient chromosomal instability as a driver of ovarian cancer genome evolution.

Irene Y. Xie, MD, University of Toronto, Toronto, ON, Canada. **Abstract 173.** Genomic characterization of patient-derived pancreatic cancer organoids.

Wei Zhao, MD, PhD, Henry Ford Health System, Detroit, MI. **Abstract 5762.** New perspective on racial disparities in prostate cancer: Identification of new molecular subsets using whole-mount radical prostatectomy.

2023 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.

Roberto Ferrara, MD, Fondazione IRCCS Istituto Nazionale dei Tumori, Milan, Italy.

Abstract 5506. Circulating immature neutrophils early detect hyperprogressive disease upon first-line PD-1/PD-L1 inhibitors in non-small cell lung cancer patients selecting best candidates for platinum-based chemotherapy and PD-1/PD-L1 inhibitors combinations.

Giulia Francescato, MS, Italian Institute for Genomic Medicine (IIGM), Candiolo, Italy.

Abstract 3797. Fecal miRNA profiles and gut metagenome composition in Lynch syndrome: results from a mouse model study and human subjects.

Sia V. Lindskrog, MS, Aarhus University Hospital, Aarhus N, Denmark. **Abstract 5600.** Utility of circulating tumor DNA and transcriptomic profiling in predicting outcome in muscle invasive bladder cancer patients.

Alessia Potenza, PhD, IRCCS San Raffaele Scientific Institute, Milan, Italy. **Abstract 902.** Harnessing CD39 for the treatment of colorectal cancer and liver metastases by engineered T cells.

Simone Weiss, MS, Aarhus University Hospital, Aarhus N, Denmark. **Abstract 3778.** Genome-Scale CRISPRa and CRISPRi screening for lncRNA drivers of prostate cancer progression.

Daniel K. Zingg, PhD, Netherlands Cancer Institute, Amsterdam, Netherlands. **Abstract 3488.** Truncated FGFR2 - a clinically actionable oncogene in multiple cancers.

2023 AACR-PROSTATE CANCER FOUNDATION SCHOLAR-IN-TRAINING AWARDS

The Prostate Cancer Foundation has graciously donated funds to the AACR to support early-career investigators who will be presenting meritorious abstracts in prostate cancer research at the AACR Annual Meeting 2023.

Ricardo A. Cordova, MS, Indiana University School of Medicine, Indianapolis, IN.

Abstract 4818. GCN2 eIF2 kinase and p53 coordinate amino acid homeostasis and metabolism in prostate cancer.

Chui Yan Mah, PhD, The University of Adelaide, Adelaide, Australia. **Abstract 1157.** Uncovering a novel role of peroxisomal β -oxidation in advanced, treatment-resistant prostate cancer.

Jitender Monga, PhD, Henry Ford Health System, Detroit, MI. **Abstract 1698.** Novel role of Tribbles 2 driving treatment-emergent neuroendocrine differentiation in prostate cancer.

Anqi Wang, MBBS, University of Southern California, Pasadena, CA. **Abstract 3508.** Association between clonal hematopoiesis and risk of prostate cancer in a large sample of African ancestry men.

SCHOLAR AWARDS | Scholar-in-Training (cont'd)

2023 AACR-SANOFI SCHOLAR-IN-TRAINING AWARDS

Sanofi has graciously donated funds to support early career investigators who will be presenting meritorious work in cancer research at the AACR Annual Meeting 2023.

Gelan Ayana, MS, Kumoh National Institute of Technology Education Organization, Gumi, Korea, Republic of. **Abstract 5437**. Vision transformers for breast cancer human epidermal growth factor receptor 2 (HER2) expression staging without immunohistochemical (IHC) staining.

Jessica Ziyu Chen, MEng, Weill Cornell Medicine, Memorial Sloan Kettering Cancer Center, New York, NY. **Abstract 5931**. Characterizing tumor heterogeneity through bulk and single cell analysis of patient derived bladder cancer models.

Arielle Elkrief, MD, Memorial Sloan Kettering Cancer Center, New York, NY. **Abstract 5185**. Intratumoral *Escherichia* is associated with response to single-agent immune checkpoint inhibition in patients with advanced non-small cell lung cancer.

Elshad Hasanov, MD, PhD, The University of Texas MD Anderson Cancer Center, Houston, TX. **Abstract 5788**. Single-cell and spatial transcriptomic mapping of human renal cell carcinoma brain metastases uncovers actionable immune-resistance targets.

Jabril Johnson, PhD, Morehouse School of Medicine, Smyrna, GA. **Abstract 3509**. 1,25-dihydroxyvitamin D3-mediated suppression of genes associated with cell cycle regulation and actin organization in a non-malignant African American prostate cell line.

Aditi S. Khatpe, MS, Indiana University School of Medicine, Indianapolis, IN. **Abstract 5458**. TONSL is an immortalizing oncogene of the chromosome 8q24.3 amplicon and new therapeutic target in breast cancer.

Sieun Lee, BS, Ewha Womans University, Seoul, Korea, Republic of. **Abstract 5860**. ZEB1-driven reconstruction of the hyaluronan network establishes a pro-metastatic microenvironment in lung adenocarcinoma.

Jonathan T. Lei, PhD, Baylor College of Medicine, Houston, TX. **Abstract 5726**. Pan-cancer proteogenomics expands the landscape of therapeutic targets.

Chang In Moon, MS, Baylor College of Medicine, Houston, TX. **Abstract 5717**. Bridging the gap between clinical-omics and machine learning to improve cancer treatment.

Long Nguyen Chi, MD, PhD, University of Chicago, Chicago, IL. **Abstract 4807**. BACH1 proline hydroxylation regulates the hypoxia response and metastasis in triple negative breast cancer.

Jina Park, MS, Johns Hopkins University, Baltimore, MD. **Abstract 6256**. Inhibition of class IIa HDACs potentiates MYC inhibitor-driven cytotoxicity by inducing MYC depletion and oxidative stress in non-small cell lung cancer.

Ajinkya Patil, MS, Dana-Farber Cancer Institute/Harvard Medical School, Brookline, MA. **Abstract 3485**. Intrinsically disordered regions of the ARID1A/B tumor suppressors encode an interaction network within biomolecular condensates that directs mSWI/SNF chromatin remodeler complex activity.

Qizhi Qin, PhD, Johns Hopkins University School of Medicine, Baltimore, MD. **Abstract 3630.** TrkA+ sensory neurons modulate macrophage phenotype in osteosarcoma.

Biagio Ricciuti, MD, Dana-Farber Cancer Institute, Boston, MA. **Abstract 6629.** Genomic and immunophenotypic landscape of acquired resistance to PD-(L)1 blockade in non-small cell lung cancer.

Alessandro Vasciaveo, PhD, Columbia University Irving Medical Center, New York, NY. **Abstract 1116.** Identifying neuroendocrine prostate cancer drivers using in vivo forward genetics.

Haochen Zhang, BS, Memorial Sloan Kettering Cancer Center, New York, NY. **Abstract 1169.** Genomic evolution of pancreatic cancer at single-cell resolution.

2023 AACR-SYGNATURE DISCOVERY SCHOLAR-IN-TRAINING AWARDS IN ASSOCIATION WITH THE CICR WORKING GROUP

Sygnature Discovery has graciously donated funds to the AACR to support an early-career investigator who will be presenting meritorious work in small molecular drug discovery research at the AACR Annual Meeting 2023.

Neelkanth M. Bardhan, PhD, Massachusetts Institute of Technology (MIT), Cambridge, MA. **Abstract 820.** Photo-activatable ON-OFF microparticles for on-demand pulsatile drug delivery in a breast cancer model.

DaeYong Lee, PhD, UT MD Anderson Cancer Center, Houston, TX. **Abstract 838.** Development of cationic polypeptide-based adjuvants for cancer immunotherapy.

AACR-MARGARET FOTI FOUNDATION EARLY STAGE INVESTIGATOR SCHOLAR AWARD

Funds were generously donated by The Margaret Foti Foundation for Early Stage Investigator (ESI) Scholars to present abstracts that were deemed to be of exceptional scientific merit by the scientific reviewers.

Eleonora Dondossola, PhD, UT MD Anderson Cancer Center, Houston, TX. **Abstract 3688.** Exploring metabolic vulnerabilities of metastatic prostate cancer to bone.

Matthew G. Oser, MD, PhD, Dana-Farber Cancer Institute, Boston, MA. **Abstract 5774.** Small cell lung cancer subtype plasticity is regulated by KDM6A.

Shervin Tabrizi, MD, Massachusetts General Hospital, Boston, MA. **Abstract 3371.** A DNA-binding priming agent protects cell-free DNA and improves the sensitivity of liquid biopsies.

AACR Global Scholar-in-Training Awards

The AACR is proud to offer 15 Global Scholar-in-Training Awards (GSITA) to support the participation of meritorious early-career scientists from countries building cancer research capacities who wish to participate in the AACR Annual Meeting 2023.

Bayan Abu AlRagheb, The University of Jordan, Amman, Jordan. **Abstract 3772.** The Association of Androgen Receptor with MicroRNA Expression in Triple-Negative Breast Cancer.

SCHOLAR AWARDS | Global Scholar-in-Training (cont'd)

Ayodeji Adegoke, PhD, University of the Free State, Bloemfontein, South Africa. **Abstract 3829.** Antioxidant and antiproliferative activities of *Ipomoea cairica* (L) extracts on three breast cancer cell lines.

Anshika Chauhan, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, India. **Abstract 2311.** Extensive molecular heterogeneity in circulating tumor cells: A key player in oral squamous cell carcinoma prognosis

Montana Manselle Cocco, Instituto de Biología y Medicina Experimental (CONICET), Buenos Aires City, Argentina.

Abstract 1265. Pan-cancer study of glycosylation-related gene expression: The emerging role of galectin-2 in tumor progression.

Andres Elia, Instituto de Biología y Medicina Experimental (CONICET), Buenos Aires City, Argentina. **Abstract 5289.** Proteomic profile of breast carcinomas with unbalanced levels of progesterone receptor isoforms.

Salma Fala, MD, Suez Canal University, Ismailia, Egypt. **Abstract 4298.** Machine learning-based model for survival prediction after ICIs in patients with solid tumors.

Vidit Gaur, Indian Institute of Technology Delhi (IIT Delhi), New Delhi, India. **Abstract 4128.** AJ17 potentiates agonist CD40 antibody efficacy and attenuates agonist CD40 induced PD-L1 expression and associated toxicity in murine tumor models.

Yazan Hamadneh, The University of Jordan, Amman, Jordan. **Abstract 3902.** Glutathione as a potential marker of tamoxifen resistance in breast cancer

Abram Kamiza, PhD, University of the Witwatersrand, Johannesburg, South Africa. **Abstract 766.** A genome-wide association study identifies the association of common variants in the major histocompatibility

complex with cervical cancer in black South African women.

Kelly Meza, Instituto Nacional de Enfermedades Neoplásicas Lima, Peru. **Abstract 6753.** Non-HIV cryptococcal patients with hematological malignancies: A retrospective analysis of a ten-year study from a Peruvian oncologic center.

Aditi Patel, Ahmedabad University, Ahmedabad, India. **Abstract 1743.** miR-1307-5p reverses cisplatin resistance in oral squamous cell carcinomas (OSCC) by targeting EHF, a modulator of stemness genes.

Agustina Sabater, Institute of Biological Chemistry of the School of Sciences (IQUIBICEN), National Scientific and Technical Research Council (CONICET), Buenos Aires City, Argentina. **Abstract 2437.** HMOX1 modulates tumor stemness and metastatic properties in prostate cancer.

Juliana Siqueira, PhD, Brazilian National Cancer Institute (INCA), Rio de Janeiro, Brazil. **Abstract 1216.** Virome characterization in different types of non-Hodgkin lymphoma.

Kamonlapat Supimon, PhD, Mahidol University, Bangkok, Thailand. **Abstract 1779.** Fourth-generation chimeric antigen receptor T cells targeting mucin 1 against breast cancer.

Jiazhang Xing, Peking Union Medical College, Beijing, China. **Abstract 1983.** Social/physical limitations and financial hardship among the US adult cancer survivors with multiple primary cancer.

AACR Minority and Minority-Serving Institution Faculty Scholar in Cancer Research Awards

The AACR is very pleased to administer this important program, which provides funds for the participation of full-time minority faculty members and faculty members of Minority-Serving Institutions (MSI) at the AACR Annual Meeting 2023. 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.

Now in its 26th year, 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 faculty members and congratulations to the Minority and Minority Serving Institution Faculty Awardees.

The names and affiliations of the 2023 Minority and Minority-Serving Institution Faculty Scholars are listed below, along with the numbers and titles of their presentations.

Remi M. Adelaiye-Ogala, PhD, University at Buffalo, Buffalo, NY. **Abstract 7111.** Alterations in hormone receptors regulome following response to kinase inhibitors in lethal prostate cancer.

Matias A. Bustos, PhD, Saint John's Cancer Institute, Santa Monica, CA. **Abstract 7567.** Transcriptomic signatures in melanoma lymph node metastasis that relate to immunotherapy.

Verline Justilien, PhD, Mayo Clinic, Jacksonville, FL. **Abstract 5119.** RAB27B drives a cancer stem cell phenotype in non-small cell lung cancer cells through enhanced extracellular vesicle secretion.

Francisco Sanchez-Vega, PhD, Memorial Sloan Kettering Cancer Center, New York, NY. **Abstract 6337.** Ultra-sensitive detection of circulating tumor DNA by whole-genome sequencing of blood samples from locally advanced rectal cancer patients receiving neoadjuvant therapy and enrolled in watch-and-wait strategies for organ preservation. **Abstract 6576.** Clinical genomic profiling identifies lower frequency of therapeutically actionable alterations and lower prognostic value of APC inactivation in colorectal cancer patients of African ancestry.

SCHOLAR AWARDS *(cont'd)*

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 2023. 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 38 years, the AACR has endeavored through this program to reach out to minority predoctoral and postdoctoral students, trainees, and junior investigators as future cancer researchers. The program was created in an attempt to address the serious problem of lack of minority participation in cancer research by offering young minority students and trainees the opportunity to attend and participate in the Annual Meetings and Special Conferences of the AACR.

The names and affiliations of the 2023 Minority Scholar Award recipients are listed below, along with the numbers and titles of their presentations.

Salvador Alejo, BA, University of Texas Health Science Center at San Antonio, San Antonio, TX. **Abstract 1732.** Lysine-specific histone demethylase 1A (KDM1A/LSD1) inhibition attenuates DNA double-strand break repair and augments efficacy of temozolomide in glioblastoma.

Nelly A. Arroyo, MS, Ponce Health Sciences University, Ponce, PR. **Abstract 7454.** The functional role of promoter germline variants in breast cancer susceptibility genes.

Crystal Byrd, MS, Clark Atlanta University, Atlanta, GA. **Abstract 2596.** Infiltrating bruton's tyrosine kinase expressed B cells effects on prostate cancer metastasis.

Alexis E. Carey, Johns Hopkins University, Baltimore, MD. **Abstract 7643.** Melanoma alters the bone marrow immune composition in an age-related manner.

Courtney D. Dill, PhD, National Cancer Institute, Rockville, MD. **Abstract 3656.** Association of genetic ancestry with all cancer risk in White and Black ever-smokers in the PLCO cohort.

Edward J. Evans Jr., PhD, University of Colorado, Anschutz Medical Campus, Aurora, CO. **Abstract 4727.** Clonal hematopoiesis in Down syndrome and its potential impact on hematopoietic lineages.

Matthew E. Fernandez, BS, Virginia Commonwealth University, Richmond, VA. **Abstract 4678.** Macrophage-targeting Immunotherapy for Triple-Negative Breast Cancer.

Esther K. Frimpong, MPH, Florida Agricultural and Mechanical University, Tallahassee, FL. **Abstract 1419.** Biological evaluation of novel stearyl Gemcitabine nanoparticles in primary pancreatic cancer cells and PDX mice tumor models.

J. Alberto Maldonado, BA, National Cancer Institute, National Institutes of Health, Bethesda, MD. **Abstract 1692.** Racial and Ethnic Disparities in U.S. Clinical Trials in Liver Cancer in the last Nineteen Years.

Mauricio A. Marquez Palencia, BS, UT Southwestern Medical Center, Dallas, TX. **Abstract 7956.** AXL-WRNIP1 mediated replication stress response aids metastatic latency and relapse.

Pedro T. Ochoa, BS, Loma Linda University, Loma Linda, CA. **Abstract 8007.** The glucocorticoid receptor-LEDGFp75 interaction in prostate cancer therapy cross-resistance.

Afia P. Ohemeng, MD, Florida A&M University, Tallahassee, FL. **Abstract 6968.** MDN1, a Novel Potential Early Biomarker for Endocrine Resistant Breast Cancer.

Dakota D. Okwuone, BS, University of Kansas Medical Center, Kansas City, KS. **Abstract 3932.** Tumor MK2 Signaling Regulates Cell Migration and Invasion in Head and Neck Squamous Cell Carcinoma.

Greisha L. Ortiz-Hernandez, PhD, City of Hope, Duarte, CA. **Abstract 4975.** CYR61, a member of the CCN protein family, regulates IGF-1 in metastatic prostate cancer.

Dominique V. Parker, BS, Vanderbilt University, Nashville, TN. **Abstract 8144.** EphA2 Expression in Breast Cancer-Mediated Osteoclast Expansion Promotes Osteolytic Bone Metastasis.

Mabel G. Perez-Oquendo, BS, MD Anderson Cancer Center, Houston, TX. **Abstract 5436.** ZEB1 dimerization is regulated by acetylation and promotes protein stability, interactions, EMT, and NSCLC metastasis.

Adeiye Pilgrim, BS, Emory University School of Medicine, Atlanta, GA. **Abstract 5557.** The Yes-Associated Protein (YAP) regulates GD2 immunotherapy response in high-risk neuroblastoma.

Alexis R. Ramos, BS, University of Iowa, Iowa City, IA. **Abstract 7490.** Tumor Hypoxia Blocks the Induction of Antigen Processing Machinery.

Evelyn S. Sanchez Hernandez, BS, Loma Linda University, Loma Linda, CA. **Abstract 8007.** The glucocorticoid receptor-LEDGFp75 interaction in prostate cancer therapy cross-resistance.

Harmony I. Saunders, MS, University of Kansas, Kansas City, KS. **Abstract 8038.** Medical Center O-GlcNAcylation of progesterone receptor promotes mammary tumorigenesis.

Jordan Winfield, MS, University of Texas at El Paso, El Paso, TX. **Abstract 7012.** S-Nitrosylation of p53 in Melanoma Alters p53-DNA Binding and Downstream Gene Expression.

SCHOLAR AWARDS *(cont'd)*

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 2023. Scholars are selected on the basis of their qualifications, references from mentors, and an estimation of the potential professional benefit to the awardees.

The names and affiliations of the 2023 Women in Cancer Research Scholars, along with the numbers and titles of their presentations, are listed below.

Priya Alagesan, BS, Duke University School of Medicine, Durham, NC. **Abstract 5598**. Biobanking of gastric organoid models from a racially diverse cohort for gastric cancer interception.

Signe Caksa, BS, Thomas Jefferson University, Philadelphia, PA. **Abstract 5567**. Transglutaminase-2 is elevated in the invasive cell state and modulates the tumor immune microenvironment in cutaneous melanoma.

Kayla R. Getz, PhD, Washington University School of Medicine in St. Louis, St. Louis, MO. **Abstract 5380**. Lipidome of mammographic breast density in premenopausal women.

Tenna V. Henriksen, PhD, Aarhus University Hospital, Aarhus, Region midtjylland, Denmark. **Abstract 4398**. Potential clinical utility of circulating tumor DNA detected by digital PCR in a nationwide Danish cohort of high-risk colorectal cancer patients.

Deepti Mathur, PhD, Memorial Sloan Kettering Cancer Center, New York, NY. **Abstract 1883**. The ratio of key metabolic transcripts is a predictive biomarker of breast cancer metastasis to the lung.

Sonia A. Patel, BS, University of Texas, MD Anderson Cancer Center, Houston, TX. **Abstract 1891**. Targeting IL-6/STAT3 signaling in EGFR-mutant drug-tolerant persister cells.

Corey M. Perkins, BA, University of Florida, Gainesville, FL. **Abstract 2051**. Race as a predictive confounder in the rate of transdifferentiation and drug response in human pancreatic acinar ductal metaplasia.

Tejaswini P. Reddy, BA, Houston Methodist Research Institute, Houston, TX. **Abstract 1945**. NOS inhibition reverses epithelial-to-mesenchymal transition and synergizes with alpelisib in metaplastic breast cancer.

Virginia Turati, PhD, Moffitt Cancer Center, Tampa, FL. **Abstract 8040**. Mathematical modelling of single-cell data reveals the key role of stochasticity - not fitness - in determining the clonal origins of relapse in childhood leukemia.

Sidi Zhao, BS, Washington University in St. Louis, St. Louis, MO. **Abstract 4107**. The landscape of circular RNAs in metastatic colorectal cancer

AACR-Undergraduate Scholar Awards

The AACR is pleased to announce the recipients of 2023 AACR-Undergraduate Scholar Awards. The primary purpose of these awards is to inspire young science students at the undergraduate level to enter the field of cancer research. The AACR is committed to promoting the education and training of the next generation of dedicated scientists and to facilitating and nurturing their careers in cancer research or cancer related biomedical science. In 2023, the AACR is celebrating 26 years of this award program and continues to generously provide the funding for these awards. The Board of Directors would like to congratulate this year's awardees.

2022-2023

Ritu Dave, Washington University in St. Louis, St. Louis, MO.

Anabella Maria D. Galang, Cornell University, Ithaca, NY.

Akshay Govindan, Washington University in St. Louis, St. Louis, MO.

Charlene Mansour, University of Alabama at Birmingham, Birmingham, AL.

Caitlin R. McCabe, Cornell University, Ithaca, NY.

Harrison Ngue, Harvard University, Cambridge, MA. **Abstract 8016.** Circular RNA expression is enriched in breast cancer extracellular vesicles and is associated with chemotherapy resistance.

Julia A. Pena, University of Texas at Austin, Austin, TX.

Melanie Perez, Florida International University, Miami, FL.

Eric G. Sun, Yale University, New Haven, CT.

Afi H. Tagnedji, University of Louisville, Louisville, KY.

2023-2024

Mariam O. Babajide, University of Houston, Houston, TX.

Aishani S. Gargapati, Rice University, Houston, TX. **Abstract 7514.** Fasting Induces Greater Expression of Mitochondrial Proteins Associated with Fatty Acid Metabolism and Non-Shivering Thermogenesis in Brown Adipose Tissue of Knock-in ACSS1K635Q Mice.

Iyana L. Gross, Morgan State University, Baltimore, MD.

Anay Gupta, Broad Institute of MIT and Harvard, Cambridge, MA. **Abstract 4809.** Drug Persistence Pathways in Ovarian Cancer Identified by Single-Cell Analysis of Patient Samples and Cell Line Models.

Isabelle Harber, University of Michigan, Ann Arbor, MI. **Abstract 8065.** Early life liver proteomic signature and minerals mitigation of liver injury.

Kavya Harish, Saint Louis University, St Louis, MO. **Abstract 2952.** Targeting the eIF6 and 60S ribosomal subunit interaction interface in cancers.

Daniel John, University of California in San Diego, San Diego, CA.

Rachel Kulchar, Princeton University, Princeton, NJ. **Abstract 5527.** Effects of radiation therapy on the hardness of enamel and dentin.

Hanjun Lee, Massachusetts Institute of Technology, Cambridge, MA. **Abstract 6713.** The non-canonical role of Rb in enhancers and insulators.

SCHOLAR AWARDS | Undergraduate Scholar (cont'd)

Thomas J. Li, The University of Chicago, Chicago, IL. **Abstract 5647.** BACH1 proline hydroxylation regulates the hypoxia response and metastasis in triple negative breast cancer.

George S. Morcos, University of Pennsylvania, Philadelphia PA.

Shrey Ramesh, University of Wisconsin-Madison, Madison, WI. **Abstract 6883.** MET inhibition enhances the effect of radiation in MET dysregulated non-small cell lung cancer models.

Elyse Schechter, University of North Carolina at Chapel Hill Chapel Hill North Carolina. **Abstract 2299.** Improving the efficacy of dual ERK-MAPK and autophagy inhibition as a therapeutic strategy for pancreatic ductal adenocarcinoma.

Carl Shirley, University of Wisconsin-Madison, Madison, WI. **Abstract 6328.** A potential pro-oncogenic role of SERPINB4 in melanoma.

Sophie R. Wu, Duke University, Durham, NC. **Abstract 3660.** Combining the RCAS/TVA retrovirus system and a conditional oncohistone H3.3K27M allele to investigate radiosensitization strategies in primary mouse models of diffuse midline glioma.

EXHIBITORS (Alphabetical)

10x Genomics	1419	American Society of Clinical Oncology (ASCO)	446
3DHISTECH	1513	Amgen Oncology	1965
4Dcell	1354	Amoy Diagnostics Co., Ltd.	1220
A Cure in Sight	*AP19	AMSBIO	1826
AACR Central	443	Analytik Jena US LLC	1533
AACR Publications	2743	Apexbio Technology LLC	1060
Aadi Bioscience, Inc.	2072	Applied Biological Materials, Inc.	406
AAT Bioquest, Inc.	603	Applied BioPhysics Inc.	2753
AbbVie, Inc.	1951	arigo Biolaboratories Corporation	1156
abcam	518	Arima Genomics	228
Abcepta	1474	Arkana Laboratories	3077
Abiosciences, Inc.	3042	ARRALYZE	3048
Absolute Biotech	2576	Arraystar, Inc.	1764
AcelaBio	3146	Arvinas, Inc.	201
ACIR/UCIR	*AP15	Assay Genie	3443
ACROBiosystems	760	ASTRAZENECA	225
Active Motif, Inc.	714	ATCC	1633
Adaptive Biotechnologies	521	AtlasXomics Inc.	703
Adgyl Lifesciences Private Limited	459	ATOM Research Alliance	2045
Advanced Targeting Systems	2342	ATUM	3271
Agilent Technologies	2165	Audubon Bioscience	2777
Aiforia, Inc.	2276	AUM BioTech, LLC.	858
Aimed Bio, Inc.	3049	Aviva Systems Biology	263
Akoya Biosciences, Inc.	1713	Axion BioSystems	611
Alex's Lemonade Stand Foundation	369	axiVEND, LLC	311
ALK Life Science Solutions	2949	Azenta Life Sciences	1251
Almac Group	853	Azure Biosystems, Inc.	304
Alpenglow Biosciences, Inc.	2775	Basepair Inc	1734
AlphaThera	659	Bayer	1442
ALZET® Osmotic Pumps/ DURECT Corp.	442	BeiGene USA, Inc.	1653
American Brain Tumor Association (ABTA)	*AP14	Beijing GenePlus Clinical Laboratory Co., Ltd.	1370
American Cancer Society	2146	Belgian Volition srl	160

EXHIBITORS (Alphabetical)

• Advocacy Partners' Pavilion located in the Front of Exhibit Hall B

Benchling	3465	BioVolume Ltd	2944
Bentham Science Publishers	1271	BIOZOL Diagnostica Vertrieb GmbH	605
Best Medical International/ Best Cure Foundation.....	1173	BlueCatBio	163
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Binaree, Inc.....	1467	BMG LABTECH	1504
Bio Molecular Systems	415	Boehringer Ingelheim Pharmaceuticals, Inc.....	1331
Bio SB, Inc.	1160	Boster Biological Technology	2175
Bio Serv	3145	BostonGene	1358
Bio X Cell	253	BPS Bioscience.....	1305
Biocare Medical, LLC	2572	BreakSight, Inc.	1664
BioChain Institute, Inc.	1656	Bristol Myers Squibb.....	743
Biocompare	1554	Broad Institute of MIT and Harvard.....	1973
Biocytogen	723	Bruker.....	1818
Biodesix	1507	Burning Rock Dx, LLC	1658
BioDuro-Sundia.....	2452	C2i Genomics	1161
BioFluidica	410	Cancer Grand Challenges.....	707
Biognosys.....	319	Cancer Research UK	1023
Biointron Biological, Inc.....	1350	Cancer Science Institute of Singapore, National University of Singapore	2044
BioIVT.....	307	Cancer Today	*AP04
Biological Dynamics.....	1368	CancerLinQ	361
Biomage LTD.....	205	CancerModels.Org	1945
biomodal	2172	CancerTools.org	812
Bionano.....	1319	Canopy Biosciences.....	111
Bionl.ai	1563	Caris Life Sciences.....	130
BioOptions	1361	Carl Zeiss Microscopy, LLC.....	2655
Bio-Rad Laboratories	1243	Cayman Chemical Company	2765
BioRender	1670	cBioPortal for Cancer Genomics	1943
BioSkrbyb Genomics.....	401	CBiS, Inc.	103
Bioss Inc.	1066	CDI Laboratories	1261
Bio-Techne	1763	Cell Culture Company.....	2476
BioTechniques.....	2272	Cell Microsystems	1402
Biotium, Inc.	55	Cell Press.....	2645
Biotrial International Ltd.....	2771		

Cell Signaling Technology	713	Crown Bioscience, Inc.	2865
Cellbox Solutions, Inc.	3073	Cureline, Inc.	1219
CellCarta	216	Curio Bioscience, Inc.	2770
Cellecta	1221	CytoRecovery, Inc.	2544
Cellenion	2843	Cytosurge AG	1772
Cellgentek Co., Ltd	215	Daiichi Sankyo, Inc.	1643
CELLINK	1158	DAVA Oncology	1072
CelVivo Inc	706	Deep Bio, Inc.	3445
Cerba Research	3148	Deepcell	460
Certara	2649	Delfi Diagnostics	3355
Certis Oncology Solutions	512	DeNovix, Inc.	658
Champions Oncology	1551	DiaCarta	1806
Charles River	943	Diagenode	1200
Chelatec	1502	Digital Science	2376
ChemPartner	1155	Discovery Life Sciences	243
Children's Brain Tumor Network	2143	Dragon Master Foundation	*AP22
Cholangiocarcinoma Foundation	*AP17	Drug Discovery News	1101
City of Hope		Echelon Biosciences	1770
Comprehensive Cancer Center	949	Eclipse BioInnovations	2274
ClearLight Biotech, Inc.	3257	Eisai Inc.	3155
Clinical Genome Resource (ClinGen)		Elabscience Biotechnology, Inc.	661
Somatic Cancer Clinical		Element Biosciences	559
Domain Working Group	2042	Elephas	1766
CloudLIMS.com	200	Eli Lilly and Company	1043
Cogent Biosciences	3143	Elsevier	2643
Cold Spring Harbor Laboratory		Emily Whitehead Foundation	*AP24
Meetings & Courses Program	2047	EMIT Imaging, Inc.	259
Colorectal Cancer Alliance	*AP18	Enable Medicine	1259
Complete Genomics	1371	Enzo Life Sciences	514
CONNEXT Co., Ltd.	1565	EpiCypher, Inc.	159
Cooperative Human		EpigenDx Inc.	765
Tissue Network (CHTN)	818	EpigenTek Group, Inc.	206
Corning Incorporated	1607	Epistem Ltd	2464
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European Association for Cancer Research	558	GenomeWeb, a business unit of Crain Communications.....	1218
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Fidelis Research AD	1557	Greiner Bio-One	117
Flagship Biosciences.....	2866	GSK	533
Florida Department of Health Office of Medical Marijuana Use.....	1172	Guangzhou Dongsheng Biotech Co.,Ltd.....	666
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Focus Biomolecules, LLC	3242	Haier Biomedical.....	318
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Fortis Life Sciences	1625	Hamilton Company	1549
Foundation Medicine, Inc.....	3053	Hangzhou Allsheng Instruments Co., Ltd.	1167
Fraunhofer IIS	1663	Hangzhou Joying Biotechnology Co., Ltd.....	3249
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Fulgent Genetics.....	872	HistoWiz	260
Funakoshi Co., Ltd.....	173	Hope for Stomach Cancer.....	*AP11
GemPharmatech LLC.....	114	Hope4ATRT Foundation	*AP01
GeneCopoeia, Inc.	2365	HTG Molecular Diagnostics.....	2073
Genentech.....	629	HUABIO.....	759
GeneTex, Inc.....	702	HUB Organoids.....	2367
Genetic Engineering & Biotechnology News.....	261	Human Metabolome Technologies.....	511
Genmab	2555	Hypoxigen.....	1601
		ibidi USA, Inc.	101

ICE Bioscience	1162	IVIM Technology.....	1059
IDeA National Resource for Quantitative Proteomics	2277	Izon Science US LLC.	3352
IDEXX BioAnalytics	466	Jackson ImmunoResearch Laboratories, Inc.	1105
IGM Biosciences, Inc.	1702	JAMA Network	2744
Ignyte Bio, Inc.....	3350	Janssen Oncology	3164
Imagen Therapeutics	314	Jiangsu Hillgene Biopharma Co., Ltd	873
Imagia Canexia Health	366	Keyence Corporation	1254
ImaginAb.....	2075	Kibur Medical Inc.	2242
Immudex	400	Kindle Biosciences, LLC	1375
Immunochemistry Technologies	1671	Kinnate Biopharma	1725
Immunocure Discovery Solutions	510	Kiyatec Inc.	419
Impact Journals, LLC.....	2642	KML Vision GmbH.....	3176
Incyte Corporation	1449	Korean Cancer Association.....	1947
Indica Labs, Inc.	710	KRAS Kickers	*AP20
Indivumed GmbH.....	1351	KRISHGEN BIOSYSTEMS	1073
Innopsys, Inc.	1062	KUBTEC Scientific.....	2543
Inotiv.....	3354	Kyinno Biotechnology	1263
INOVOTION.....	230	Lab To Pharmacy, LLC.....	358
InSphero, Inc.	2446	Labcorp.....	2442
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intoDNA	2948	Leica Biosystems	1824
Inventia Life Science	3275	Leica Microsystems	1469
Invicro.....	61	Leinco Technologies	2755
Invitae.....	2176	LGC Clinical Diagnostics	133
Ionpath.....	515	Li Ka Shing Faculty of Medicine, The University of Hong Kong.....	313
IPA (ImmunoPrecise Antibodies).....	2352	LifeOmic	3074
iProcess Global Research Inc.	207	LKT Laboratories, Inc.	1762
IQ Proteomics	57	Logos Biosystems, Inc.	359
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M2GEN	1301	Mucosal Melanoma	
MABTECH.....	1272	Warriors Foundation.....	*AP12
MBL International	2864	My Faulty Gene	*AP08
MCRA, LLC.....	3243	Myllia Biotechnology GmbH.....	3451
MD Anderson Cancer Center.....	1501	Nacalai USA, Inc.....	2542
MedGenome	2074	NanoCollect Biomedical, Inc.	462
Medicilon, Inc.....	3047	Nanodigmbio (Nanjing)	
Menarini Silicon Biosystems	100	Biotechnology Co., LTD	3142
Merck & Co.....	1009	Nanolive SA	1470
Meso Scale Discovery	465	NanoString Technologies, Inc.	1731
Metabolon	2076	Natera, Inc.	3343
Metware Biotechnology, Inc.....	258	National Cancer Institute.....	809
MIB Agents	*AP06	Navigate Biopharma Services, Inc.	2776
MILabs B.V.....	2847	Navinci Diagnostics AB.....	1771
MilliporeSigma	1543	Neobio US	1075
Miltenyi Biotec B.V. & Co. KG	1433	NeoGenomics.....	2153
MIMETAS B.V.	509	NeoSome Life Sciences, LLC.....	963
Minerva Biolabs, Inc.....	213	NET Research Foundation	*AP13
Minerva Imaging	312	Nilogen Oncosystems.....	1700
Mirati Therapeutics.....	1309	Noble Life Sciences.....	569
MiRXES.....	1204	Nona Biosciences.....	2344
Mispro Biotech Services.....	567	Novadiscovery	1667
Moderna Tx, Inc.....	2664	Novartis Pharmaceuticals.....	1001
Moffitt Cancer Center.....	305	Novocure, Inc.....	142
MOLECUBES.....	202	Novogene Corporation, Inc.	527
Molecular Devices.....	2946	nRichDX, Inc.....	3044
Molecular Instruments, Inc.	2870	NuAire, Inc.....	816
Molecular Loop Biosciences, Inc.....	2472	NuChem Sciences.....	362
Molecular Machines & Industries.....	3144	Nucleai	3455
Morphle Labs, Inc.	1575	Nucleus Biologics	411
Motic Digital Pathology	203	NuProbe USA, Inc.....	610
MP Biomedicals	2874	Nuvisan ICB GmbH.....	1622

Olink Proteomics, Inc.	2549	Pillar Biosciences	2343
Omega Bio-tek	608	Polycarbin, Inc.	1457
OncLive	2677	PolyPeptide Group	1154
Oncodesign Services	1055	Porsolt SAS	3244
Oncohost	168	Porvair Sciences	563
OncoKB	519	PreAnalytix	868
Oncolines B.V.	758	PreciGenome LLC	2466
OrganaBio	461	Precision Biosystems	69
ORGANOIDS SCIENCES Co., Ltd.	272	Precision for Medicine	2853
OriGene Technologies, Inc.	529	Precision NanoSystems	1774
Owkin	154	Precision X-Ray, Inc.	1400
Owlstone Medical	3076	Predicine, Inc.	501
Oxford Nanopore Technologies	801	PredxBio (Formerly SplIntellx)	974
PacBio	958	Prior Scientific	1571
Paige	2942	ProlImmune, Inc.	969
PamGene Int.	75	ProMab Biotechnologies, Inc.	859
Panome Bio	363	Promega Corporation	3173
Paraza Pharma, Inc.	367	ProSci - A Genesee Scientific Company	1174
Parhelia Biosciences	1709	Proscia	2173
Parse Biosciences	1202	Protein Fluidics, Inc.	2774
Partek Incorporated	1473	Proteintech Group	1119
PathAI	315	ProteoGenix, Inc./DX Biosamples	513
PCR Biosystems	662	ProteoGenix	1019, 1118
Pear Bio	1730	Psomagen, Inc.	2468
PEPperPRINT GmbH	1269	Q Squared Solutions	1418
PeproTech, Inc., part of Thermo Fisher Scientific	343	QIAGEN, Inc.	753
PerkinElmer, Inc.	1130	Quantum-Si	1707
Personalis, Inc.	1365	Rain Oncology, Inc.	219
Pfizer Oncology	831	RapID Lab	560
PharmaLegacy Laboratories	71	Rapid Novor	3045
Pharmatest Services	347	RareCyte, Inc.	955
Phase Genomics	561	RayBiotech	1067
PHC Corporation of North America	2474	Reaction Biology	1527

EXHIBITORS (Alphabetical)

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Regeneron Commercial.....	2475	Simport Scientific Inc.	1373
Regeneron Medical.....	303	Singular Genomics	1613
REPROCELL/BioServe.....	961	Sino Biological.....	952
Research Diets, Inc.....	3348	Sirona Dx.....	3442
Rho.....	1559	SMOBIO Technology, Inc.....	1455
Roche Sequencing & Life Science	232	Society for Immunotherapy of Cancer	767
Rockefeller University Press.....	2742	SoftMouse.NET.....	2545
Rockland Immunochemicals, Inc.	1662	SomaLogic.....	1618
RockStep Solutions.....	2346	SOMARK Innovations	2246
Rosalind.....	1719	Sony Biotechnology, Inc.....	1566
Roswell Park Comprehensive Cancer Center	1275	SOPHiA GENETICS	123
S2 Genomics	973	Southern Research.....	3273
Samba Scientific	2443	Spectral Instruments Imaging, LLC.....	153
Sampled.....	2872	SpectronRx.....	2473
Sanofi	3365	Springer Nature.....	2648
Sanyou Biopharmaceuticals Co., Ltd.....	866	St. Jude Children's Research Hospital.....	2046
Sapio Sciences.....	1573	Standard BioTools	1224
SARSTEDT.....	1648	STEMCELL Technologies	802
Sartorius	412	Stemline, A Menarini Group Company.....	701
Say YES to Hope.....	*AP02	STILLA TECHNOLOGIES	3172
Science/AAAS	800	Streck	402
ScienCell Research Laboratories.....	1401	Studylog Systems, Inc.....	51, 2456
Scientist.com.....	2347	Stupid Cancer, Inc.	*AP16
SCIEX.....	2547	Swiftly Foundation.....	*AP08
SciLeads.....	3374	Syd Labs, Inc.....	1773
Scintica	1061	Syncell Inc.	129
Seagen	1318	Synthego	1977
Selvita, Inc.	158	Sysmex Inostics.....	1325
Shanghai Haoyuan MedChemExpress Co., Ltd.....	2177	Taconic Biosciences	2854
Shanghai LIDE Biotech.....	105	Takeda.....	3265
Shuimu BioSciences.....	972	Targeted Bioscience.....	1800

Targetmol Chemicals, Inc.....	1674	VectorBuilder, Inc.....	601
Teiko Bio.....	73	Velsera.....	768
Teledyne Lumenera.....	1570	Veracyte.....	1701
Telesis Bio.....	3370	Veranome Biosystems.....	2943
Tempus.....	922	Vieworks.....	1519
The Bioinformatics CRO.....	1303	Visiopharm Corporation.....	612
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57.....IQ Proteomics	206EpigenTek Group, Inc.
61.....Invicro	207iProcess Global Research Inc.
69.....Precision Biosystems	211Watchmaker Genomics
71.....PharmaLegacy Laboratories	213Minerva Biolabs, Inc.
73.....Teiko Bio	215Cellgentek Co., Ltd
75.....PamGene Int.	216CellCarta
100Menarini Silicon Biosystems	219Rain Oncology, Inc.
101ibidi USA, Inc.	225ASTRAZENECA
103CBiS, Inc.	228Arima Genomics
105Shanghai LIDE Biotech	230INOVOTION
106Exelixis Medical Affairs	232Roche Sequencing & Life Science
111Canopy Biosciences	243Discovery Life Sciences
114GemPharmatech LLC	253Bio X Cell
117Greiner Bio-One	258Metware Biotechnology, Inc.
123SOPHiA GENETICS	259EMIT Imaging, Inc.
129Syncell Inc.	260HistoWiz
130Caris Life Sciences	261Genetic Engineering & Biotechnology News
133LGC Clinical Diagnostics	263Aviva Systems Biology
142Novocure, Inc.	267Hamamatsu Corporation
148Luminex A DiaSorin Company	272ORGANOIDS SCIENCES Co., Ltd.
153Spectral Instruments Imaging, LLC	300exonbio
154Owkin	301Exact Sciences
158Selvita, Inc.	302Exact Sciences
159EpiCypher, Inc.	303Regeneron Medical
160Belgian Volition srl	304Azure Biosystems, Inc.
163BlueCatBio	305Moffitt Cancer Center
168Oncohost	307BioIVT
173Funakoshi Co., Ltd.	310TRANSGENE
200CloudLIMS.com	311axiVEND, LLC
201Arvinas, Inc.	312Minerva Imaging
202MOLECUBES	
203Motic Digital Pathology	

- | | |
|--|--|
| 313Li Ka Shing Faculty of Medicine,
The University of Hong Kong | 446American Society of Clinical
Oncology (ASCO) |
| 314Imagen Therapeutics | 458Union Biometrica, Inc. |
| 315PathAI | 459Adgyl Lifesciences Private Limited |
| 318Haier Biomedical | 460Deepcell |
| 319Biognosys | 461OrganaBio |
| 343PeproTech, Inc., part of Thermo
Fisher Scientific | 462NanoCollect Biomedical, Inc. |
| 347Pharmatest Services | 465Meso Scale Discovery |
| 351The Jackson Laboratory | 466IDEXX BioAnalytics |
| 358Lab To Pharmacy, LLC | 501Predicine, Inc. |
| 359Logos Biosystems, Inc. | 509MIMETAS B.V. |
| 361CancerLinQ | 510Immunocure, Inc. |
| 362NuChem Sciences | 511Human Metabolome Technologies |
| 363Panome Bio | 512Certis Oncology Solutions |
| 366Imagia Canexia Health | 513ProteoGenix, Inc./DX Biosamples |
| 367Paraza Pharma, Inc. | 514Enzo Life Sciences |
| 368Gestalt Diagnostics | 515Ionpath |
| 369Alex's Lemonade Stand
Foundation | 518abcam |
| 400Immudex | 519OncoKB |
| 401BioSkrbyb Genomics | 521Adaptive Biotechnologies |
| 402Streck | 527Novogene Corporation, Inc. |
| 404Hera BioLabs | 529OriGene Technologies, Inc. |
| 406Applied Biological Materials, Inc. | 533GSK |
| 410BioFluidica | 558European Association for
Cancer Research |
| 411Nucleus Biologics | 559Element Biosciences |
| 412Sartorius | 560RapID Lab |
| 415Bio Molecular Systems | 561Phase Genomics |
| 419Kiyatec Inc. | 563Porvair Sciences |
| 442ALZET® Osmotic Pumps/
DURECT Corp. | 567Mispro Biotech Services |
| 443AACR Central | 569Noble Life Sciences |
| 444TheWell Bioscience, Inc. | 601VectorBuilder, Inc. |
| | 603AAT Bioquest, Inc. |

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605BIOZOL Diagnostica Vertrieb GmbH	759HUABIO
607Hangzhou Tigermed Consulting Co., Ltd	760ACROBiosystems
608Omega Bio-tek	761Signalchem Biotech, Inc.
610NuProbe USA, Inc.	765EpigenDx Inc
611Axion BioSystems	767Society for Immunotherapy of Cancer
612Visiopharm Corporation	768Velsera
615ZenBio, Inc.	800Science/AAAS
618XENTECH SAS	801Oxford Nanopore Technologies
619GenScript USA, Inc.	802STEMCELL Technologies
626Eurofins Discovery	809National Cancer Institute
629Genentech	812CancerTools.org
658DeNovix, Inc.	816NuAire, Inc.
659AlphaThera	818Cooperative Human Tissue Network (CHTN)
661Elabscience Biotechnology, Inc.	831Pfizer Oncology
662PCR Biosystems	853Almac Group
663iSpecimen	858AUM BioTech, LLC.
666Guangzhou Dongsheng Biotech Co.,Ltd	859ProMab Biotechnologies, Inc.
669X-Chem	861LUMICKS
700INTEGRA	864US Biolab
701Stemline, A Menarini Group Company	866Sanyou Biopharmaceuticals Co., Ltd.
702GeneTex, Inc.	867BGI Americas Corporation
703AtlasXomics Inc.	868PreAnalytix
706CelVivo Inc	872Fulgent Genetics
707Cancer Grand Challenges	873Jiangsu Hillgene Biopharma Co., Ltd
710Indica Labs, Inc.	922Tempus
713Cell Signaling Technology	943Charles River
714Active Motif, Inc.	949City of Hope Comprehensive Cancer Center
723Biocytogen	952Sino Biological
743Bristol Myers Squibb	955RareCyte, Inc.
753QIAGEN, Inc.	958PacBio
758Oncolines B.V.	

961.....REPROCELL/BioServe	1156.....arigo Biolaboratories Corporation
962.....ThinkCyte Inc.	1158.....CELLINK
963.....NeoSome Life Sciences, LLC.	1160.....Bio SB, Inc.
966.....Evotec SE	1161.....C2i Genomics
969.....ProlImmune, Inc.	1162.....ICE Bioscience
972.....Shuimu BioSciences	1167.....Hangzhou Allsheng Instruments Co., Ltd.
973.....S2 Genomics	1172.....Florida Department of Health Office of Medical Marijuana Use
974.....PredxBio (Formerly Splntellx)	1173.....Best Medical International/ Best Cure Foundation
1001.....Novartis Pharmaceuticals	1174.....ProSci - A Genesee Scientific Company
1009.....Merck & Co.	1200.....Diagenode
1019.....ProteoGenix	1202.....Parse Biosciences
1023.....Cancer Research UK	1204.....MiRXES
1032.....Theradex Oncology	1218.....GenomeWeb, a business unit of Crain Communications
1043.....Eli Lilly and Company	1219.....Cureline, Inc.
1055.....Oncodesign Services	1220.....Amoy Diagnostics Co., Ltd.
1059.....IVIM Technology	1221.....Cellecta
1060.....Apexbio Technology LLC	1222.....FroggaBio, Inc.
1061.....Scintica	1224.....Standard BioTools
1062.....Innopsys, Inc.	1243.....Bio-Rad Laboratories
1066.....Bioss Inc.	1251.....Azenta Life Sciences
1067.....RayBiotech	1254.....Keyence Corporation
1072.....DAVA Oncology	1259.....Enable Medicine
1073.....KRISHGEN BIOSYSTEMS	1261.....CDI Laboratories
1075.....Neobio US	1263.....Kynno Biotechnology
1101.....Drug Discovery News	1269.....PEPperPRINT GmbH
1101.....LabX Media Group	1271.....Bentham Science Publishers
1105.....Jackson ImmunoResearch Laboratories, Inc.	1272.....MABTECH
1118.....ProteoGenix	1275.....Roswell Park Comprehensive Cancer Center
1119.....Proteintech Group	1301.....M2GEN
1125.....FujiFilm VisualSonics, Inc.	
1130.....PerkinElmer, Inc.	
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1155.....ChemPartner	

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1319.....Bionano	1470.....Nanolive SA
1325.....Sysmex Inostics	1472.....Transomic Technologies
1331.....Boehringer Ingelheim Pharmaceuticals, Inc.	1473.....Partek Incorporated
1350.....Biointron Biological, Inc	1474.....Abcepta
1351.....Indivumed GmbH	1475.....ZoomRx, Inc.
1354.....4Dcell	1500.....Hilltop Lab Animals, Inc.
1358.....BostonGene	1501.....MD Anderson Cancer Center
1359.....Reddot Biotech, Inc.	1502.....Chelatec
1361.....BioOptions	1504.....BMG LABTECH
1365.....Personalis, Inc.	1507.....Biodesix
1368.....Biological Dynamics	1513.....3DHISTECH
1370.....Beijing GenePlus Clinical Laboratory Co., Ltd.	1519.....Vieworks
1371.....Complete Genomics	1527.....Reaction Biology
1373.....Simport Scientific Inc.	1533.....Analytik Jena US LLC
1374.....Xilio Therapeutics	1543.....MilliporeSigma
1375.....Kindle Biosciences, LLC	1549.....Hamilton Company
1400.....Precision X-Ray, Inc.	1551.....Champions Oncology
1401.....ScienCell Research Laboratories	1554.....Biocompare
1402.....Cell Microsystems	1556.....LC Sciences
1403.....Haystack Oncology	1557.....Fidelis Research AD
1404.....XpressBio	1559.....Rho
1418.....Q Squared Solutions	1563.....Bionl.ai
1419.....10x Genomics	1565.....CONNEXT Co., Ltd.
1427.....WuXi AppTec	1566.....Sony Biotechnology, Inc.
1433.....Miltenyi Biotec B.V. & Co. KG	1567.....Creative Biomart, Inc.
1442.....Bayer	1570.....Teledyne Lumenera
1449.....Incyte Corporation	1571.....Prior Scientific
1455.....SMOBIO Technology, Inc.	1573.....Sapio Sciences
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	1575.....Morphle Labs, Inc.

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 1607.....Corning Incorporated
 1613.....Singular Genomics
 1618.....SomaLogic
 1619.....Vizgen
 1622.....Nuvisan ICB GmbH
 1625.....Fortis Life Sciences
 1631.....Gold Biotechnology, Inc.
 1633.....ATCC
 1643.....Daiichi Sankyo, Inc.
 1648.....SARSTEDT
 1653.....BeiGene USA, Inc.
 1656.....BioChain Institute, Inc.
 1658.....Burning Rock Dx, LLC
 1662.....Rockland Immunochemicals, Inc.
 1663.....Fraunhofer IIS
 1664.....BreakSight, Inc.
 1665.....iRepertoire, Inc.
 1666.....FORMULATRIX
 1667.....Novadiscovery
 1670.....BioRender
 1671.....Immunochemistry Technologies
 1674.....Targetmol Chemicals, Inc.
 1675.....FUJIFILM Pharmaceuticals
 U.S.A., Inc.
 1700.....Nilogen Oncosystems
 1701.....Veracyte
 1702.....IGM Biosciences, Inc.
 1707.....Quantum-Si
 1709.....Parhelia Biosciences
 1713.....Akoya Biosciences, Inc.
 1719.....Rosalind
 1725.....Kinnate Biopharma
 1727.....MT Group
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 1734.....Basepair Inc
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 1763.....Bio-Techne
 1764.....Arraystar, Inc.
 1766.....Elephas
 1770.....Echelon Biosciences
 1771.....Navinci Diagnostics AB
 1772.....Cytosurge AG
 1773.....Syd Labs, Inc.
 1774.....Precision NanoSystems
 1775.....Genomic Testing Cooperative
 1800.....Targeted Bioscience
 1806.....DiaCarta
 1808.....Lanterne Dx
 1818.....Bruker
 1824.....Leica Biosystems
 1826.....AMSBIO
 1870.....Lunaphore Technologies
 1943.....cBioPortal for Cancer Genomics
 1945.....CancerModels.Org
 1947.....Korean Cancer Association
 1951.....AbbVie, Inc.
 1965.....Amgen Oncology
 1973.....Broad Institute of MIT and
 Harvard
 1977.....Synthego
 2042.....Clinical Genome Resource
 (ClinGen) Somatic Cancer
 Clinical Domain Working Group
 2043.....The Cancer Epitope Database and
 Analysis Resource (CEDAR)

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2044.....Cancer Science Institute of Singapore, National University of Singapore	2273.....Zymo Research Corp.
2045.....ATOM Research Alliance	2274.....Eclipse BioInnovations
2046.....St. Jude Children's Research Hospital	2276.....Aiforia, Inc.
2047.....Cold Spring Harbor Laboratory Meetings & Courses Program	2277.....IDeA National Resource for Quantitative Proteomics
2072.....Aadi Bioscience, Inc.	2342.....Advanced Targeting Systems
2073.....HTG Molecular Diagnostics	2343.....Pillar Biosciences
2074.....MedGenome	2344.....Nona Biosciences
2075.....ImaginAb	2346.....RockStep Solutions
2076.....Metabolon	2347.....Scientist.com
2142.....The Hormel Institute	2352.....IPA (ImmunoPrecise Antibodies)
2143.....Children's Brain Tumor Network	2353.....Unified Information Devices
2144.....Frederick National Laboratory for Cancer Research	2355.....Covaris
2146.....American Cancer Society	2365.....GeneCopoeia, Inc.
2147.....The Leukemia & Lymphoma Society	2367.....HUB Organoids
2149.....TriSalus Life Sciences	2372.....Watson Bio Lab
2153.....NeoGenomics	2373.....TriStar Technology Group, LLC
2165.....Agilent Technologies	2376.....Digital Science
2172.....biomodal	2377.....Inteliquet, an IQVIA business
2173.....Proscia	2442.....Labcorp
2174.....Gradiant Bioconvergence	2443.....Samba Scientific
2175.....Boster Biological Technology	2446.....InSphero, Inc.
2176.....Invitae	2452.....BioDuro-Sundia
2177.....Shanghai Haoyuan MedChemExpress Co., Ltd	2455.....INTEGRA
2242.....Kibur Medical Inc.	2456.....Studylog Systems, Inc.
2244.....World Precision Instruments	2464.....Epistem Ltd
2246.....SOMARK Innovations	2465.....Guardant Health
2248.....vivoPharm Global	2466.....PreciGenome LLC
2265.....Gilead and Kite Oncology	2468.....Psomagen, Inc.
2272.....BioTechniques	2472.....Molecular Loop Biosciences, Inc.
	2473.....SpectronRx
	2474.....PHC Corporation of North America
	2475.....Regeneron Commercial

2476.....Cell Culture Company	2843.....Cellenion
2542.....Nacalai USA, Inc.	2847.....MILabs B.V.
2543.....KUBTEC Scientific	2849.....Heidolph North America
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2665.....Thermo Fisher Scientific	2949.....ALK Life Science Solutions
2671.....Lunit USA, Inc.	2975.....Fugene Transfection
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2743.....AACR Publications	3043.....Integrated DNA Technologies
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2753.....Applied BioPhysics Inc.	3045.....Rapid Novor
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2765.....Cayman Chemical Company	3049.....Aimed Bio, Inc.
2770.....Curio Bioscience, Inc.	3053.....Foundation Medicine, Inc.
2771.....Biotrial International Ltd	3073.....Cellbox Solutions, Inc.
2773.....Viva Biotech	3074.....LifeOmic
2774.....Protein Fluidics, Inc.	3076.....Owlstone Medical
2775.....Alpenglow Biosciences, Inc.	3077.....Arkana Laboratories
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2777.....Audubon Bioscience	

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3144.....Molecular Machines & Industries	3444.....IsoPlexis
3145.....Bio Serv	3445.....Deep Bio, Inc.
3146.....AcelaBio	3451.....Myllia Biotechnology GmbH
3148.....Cerba Research	3455.....Nucleai
3149.....Translational Drug Development (TD2)	3457.....Blueprint Medicines
3155.....Eisai Inc.	3465.....Benchling
3164.....Janssen Oncology	*AP01.....Hope4ATRT Foundation
3172.....STILLA TECHNOLOGIES	*AP02.....Say YES to Hope
3173.....Promega Corporation	*AP03.....TOUCH, The Black Breast Cancer Alliance
3176.....KML Vision GmbH	*AP04.....Cancer Today
3242.....Focus Biomolecules, LLC	*AP05.....Tigerlily Foundation
3243.....MCRA, LLC	*AP06.....MIB Agents
3244.....Porsolt SAS	*AP07.....Zoefia Alexandria Foundation, Inc.
3248.....Zaber Technologies	*AP08.....My Faulty Gene
3249.....Hangzhou Joying Biotechnology Co., Ltd.	*AP09.....The Sontag Foundation
3257.....ClearLight Biotech, Inc.	*AP10.....The ComedyCures Foundation
3265.....Takeda	*AP11.....Hope for Stomach Cancer
3271.....ATUM	*AP12.....Mucosal Melanoma Warriors Foundation
3273.....Southern Research	*AP13.....NET Research Foundation
3275.....Inventia Life Science	*AP14.....American Brain Tumor Association (ABTA)
3343.....Natera, Inc.	*AP15.....ACIR/UCIR
3345.....Excellos	*AP16.....Stupid Cancer, Inc.
3348.....Research Diets, Inc.	*AP17.....Cholangiocarcinoma Foundation
3350.....Ignyte Bio, Inc.	*AP18.....Colorectal Cancer Alliance
3352.....Izon Science US LLC.	*AP19.....A Cure In Sight
3354.....Inotiv	*AP20.....KRAS Kickers
3355.....Delfi Diagnostics	*AP21.....Triage Cancer
3365.....Sanofi	*AP22.....Dragon Master Foundation
3370.....Telesis Bio	*AP23.....The Brain Tumor Network
3374.....SciLeads	*AP24.....Emily Whitehead Foundation
3442.....Sirona Dx	

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