



AACR

American Association
for Cancer Research®

ANNUAL MEETING 2025 CHICAGO

APRIL 25–30, 2025

AACR.ORG/AACR2025 | [#AACR25](https://twitter.com/AACR25)

UNIFYING
CANCER
SCIENCE AND
MEDICINE:
A CONTINUUM OF
INNOVATION
FOR **IMPACT**

CALL FOR ABSTRACTS

ABSTRACT SUBMISSION DEADLINE:
NOVEMBER 26, 2024

**LATE-BREAKING AND CLINICAL TRIALS
ABSTRACT SUBMISSION DEADLINE:**
JANUARY 16, 2025

Continuing Medical Education Activity - AMA PRA Category 1 Credits™ available



American Association
for Cancer Research®

ANNUAL MEETING 2025 CHICAGO



AACR OFFICERS

PRESIDENT
Patricia M. LoRusso

PRESIDENT-ELECT
Lillian L. Siu

IMMEDIATE PAST PRESIDENT
Philip D. Greenberg

TREASURER
William N. Hait

CHIEF EXECUTIVE OFFICER
Margaret Foti

BOARD OF DIRECTORS
John M. Carethers
John D. Carpten
Christina Curtis
Manuel Hidalgo
Christine M. Lovly
William Pao
Electra D. Paskett
Elizabeth A. Platz
Katerina A. Politi
Alice T. Shaw
Jean-Charles Soria
Kimberly Stegmaier
Robert H. Vonderheide
Jedd Wolchok
Catherine J. Wu

TABLE OF CONTENTS

4	AACR Annual Meeting 2025 Key Dates
6	Why You Should Attend
8	Program
13	Spotlight on Clinical Trials
14	Professional Advancement Opportunities
17	Exhibit Show
19	Continuing Medical Education (CME)
20	AACR Scientist↔Survivor Program®
21	Press Coverage and Social Media
22	Financial Support for Attendance
24	Guidelines for Preparation and Submission of Abstracts
29	Meeting Resources
30	Abstract Categories
35	AACR Membership Opportunities
40	Housing
42	Travel
43	General Information
45	AACR Annual Meeting 2025 Committees

ABOUT THE COVER IMAGE:

The AACR Annual Meeting 2025 covers the entire spectrum of cancer research, prevention, etiology, and treatment of the 200+ diseases we call cancer. The cover depicts this year's theme, "Unifying Cancer Science and Medicine: A Continuum of Innovation for Impact."

©2025 American Association for Cancer Research®

WELCOME



DEAR MEMBERS AND FRIENDS OF THE AACR,

It is our pleasure to invite you to attend the 116th Annual Meeting of the American Association for Cancer Research (AACR), which will take place on April 25-30, 2025, in Chicago, Illinois.

The theme of this year's meeting is "Unifying Cancer Science and Medicine: A Continuum of Innovation for Impact." It reflects the critical importance of advancing cancer research from the bench to the clinic and back to the bench—a synergistic process in which basic and translational revelations lead to discoveries and innovations that improve patient outcomes, while patient experiences also inform future research and discoveries.

As the touchstone of the cancer research community, the AACR Annual Meeting is the place where science and medicine come together—where scientists, clinicians, other health care professionals, survivors, patients, and advocates gather to discuss the latest breakthroughs, make connections, and forge new collaborations.

The Program Committee Cochairs have been working hard to develop an outstanding program that showcases the latest innovations across the full continuum of cancer research. We are grateful to the Program Committee members for their expert guidance, and we look forward to sharing the results of their efforts and those of all the participating scientists in April.

Daily plenary sessions will highlight cutting-edge advances in cancer research, emphasizing transformative scientific discoveries and innovative technologies. The mechanisms driving cancer evolution will be explored, revealing the biological processes that contribute to tumor development, growth, and treatment resistance. Emerging technologies—such as AI, novel chemistry, genomic tools, and advanced imaging—and their roles in accelerating research progress will be

addressed. There will also be a focus on the intricate interactions between cancer cells and their microenvironment and the therapeutic strategies to disrupt these dynamics. In addition, opportunities in early detection and prevention, as well as predictive oncology will be discussed, showcasing the potential of new technologies, biomarkers, and predictive models to catch cancers early, personalize cancer treatment and improve patient outcomes. Throughout the meeting, experts from around the world will present the latest discoveries from across the continuum of basic, translational, clinical, and population sciences, as well as regulatory science and public policy.

Maximizing the impact of unifying cancer science and medicine requires that the benefits of innovation are distributed globally. This year's Presidential Select Symposium, titled "Leveraging Science to Reduce the Cancer Burden Worldwide," will address this critical need.

The robust scientific program will be preceded by a comprehensive slate of educational sessions and methods workshops. This educational program, which will begin at 3:00 p.m. on Friday, April 25, and run through Saturday, April 26, will present state-of-the-art concepts and methods across a broad range of areas by leaders in their fields. Please keep the educational program in mind when registering and making your travel plans.

Sustaining the innovation that impacts outcomes for cancer patients depends on the emerging generation of leaders in cancer science and medicine. With more than 31,000 graduate students, medical students and residents, and clinical and postdoctoral fellows participating in its programs as Associate Members, AACR is committed to the education, training, and professional advancement of early-career investigators. This Annual Meeting program

reflects this commitment, with a comprehensive series of career development sessions to support the cancer workforce.

In addition, the AACR NextGen Stars program offers early-career and early-stage scientists the opportunity to apply for oral presentation slots at the Annual Meeting. AACR Associate Members, as well as Active Members at the assistant professor level or equivalent, are welcome to submit an application and an extended abstract to the NextGen Stars program by October 10, 2024.

In addition to the spectacular invited speaker program, the meeting will feature more than 6,500 presentation slots to accommodate proffered papers. Meritorious proffered papers will receive consideration for oral presentation in Minisymposia. We encourage you and your colleagues to submit your abstracts by the November 26, 2024 deadline to be considered for oral or poster presentation.

The proffered program will also showcase the latest advances in cancer medicine with a growing number of clinical trials and over 240 in 2024—including nearly 40 oral presentations in high-profile Clinical Trial Plenary Sessions and Clinical Trial Minisymposia. Clinical trialists are urged to consider the AACR Annual Meeting 2025 as a premier presentation outlet for their practice-changing work that will improve patient care. The submission deadline for clinical trials abstracts is January 16, 2025.

We hope you will join us in person in Chicago or virtually and be a part of the impending revolution in cancer science and care. Please check the AACR website (AACR.org/AACR2025) regularly for program updates and announcements. We look forward to receiving your abstract submissions and to your active participation in the AACR Annual Meeting 2025.

With very best wishes and regards,

Matthew G. Vander Heiden, MD, PhD
Chair, AACR Annual Meeting
2025 Program Committee

Lillian Siu, MD, FAACR
Chair, AACR Annual Meeting
2025 Program Committee

Patricia M. LoRusso, DO, PhD (hc), FAACR
President, 2024-2025

Margaret Foti, PhD, MD (hc)
Chief Executive Officer, AACR



AACR ANNUAL MEETING 2025 KEY DATES

September 2024

September 10, 2024	Membership Application Deadline for NextGen Stars Applicants
September 15, 2024	Nomination Deadline for AACR Scientific Achievement Awards
September 17, 2024	Early Access to Housing Reservations Opens for Members
September 24, 2024	Abstract Submission Opens
September 24, 2024	Housing Reservations Open for Nonmember Attendees
September 24, 2024	Award Applications Open

- AACR Scholar-in-Training Awards
- AACR Global Scholar-in-Training Awards
- AACR Patient Advocates in Cancer Research Awards
- AACR Minority Scholar in Cancer Research Awards
- AACR Minority and Minority-Serving Institution Faculty (MMSIF) Scholar in Cancer Research Awards
- AACR-Women in Cancer Research (WICR) Scholar Awards
- AACR Undergraduate Scholar Awards

October 2024

October 10, 2024	Application Deadline: NextGen Stars
October 28, 2024	Membership Application Deadline for Prospective Regular Abstract Sponsors and Scholar-in-Training Award Applicants
October 29, 2024	Meeting Registration Opens

November 2024

November 1, 2024	Abstract Submission Deadline for AACR New Drugs on the Horizon Sessions
November 26, 2024	Regular Abstract Submission Deadline (11:59 p.m. ET)
November 26, 2024	Application Deadlines:
	• AACR Global Scholar-in-Training Awards
	• AACR Scholar-in-Training Awards

December 2024

December 3, 2024	Membership Application Deadline for Early Registration Rate
December 6, 2024	Application Deadlines
	• AACR Women in Cancer Research (WICR) Scholar Awards
	• AACR Undergraduate Scholar Awards
December 9, 2024	Nomination Deadline for AACR June L. Biedler Prize for Cancer Journalism
December 13, 2024	Application Deadlines:
	• AACR Minority Scholar in Cancer Research Awards
	• AACR Minority and Minority-Serving Institution Faculty Scholar in Cancer Research Awards
	• AACR Patient Advocates in Cancer Research Awards
December 16, 2024	Membership Application Deadline for Prospective Late-Breaking and Clinical Trials Abstract Sponsors
December 18, 2024	Late-Breaking and Clinical Trials Abstract Submission Opens

AACR ANNUAL MEETING 2025

KEY DATES *(cont'd)*

January 2025

January 3, 2025	Early Registration Deadline (lowest rates)
January 6, 2025	Regular Abstract Status Notifications Sent
January 16, 2025	Late-Breaking and Clinical Trials Abstract Submission Deadline (11:59 p.m. ET)
January 27, 2025	Manuscript Submission Deadline for Simultaneous Publication Consideration (Regular Abstracts)

February 2025

February 7, 2025	Membership Application Deadline for Advance Registration Rate
February 11, 2025	Regular Abstract Scheduling Notifications Sent
February 18, 2025	Submission Deadline: Final Data for Clinical Trial Placeholder Abstracts
February 21, 2025	Online Itinerary Planner Available (tentative)
February 24, 2025	Manuscript Submission Deadline for Simultaneous Publication Consideration (Late-Breaking and Clinical Trials Abstracts)
February 25, 2025	Late-Breaking and Clinical Trials Abstract Notifications Sent
February 27, 2025	Regular Abstract Withdrawal Deadline

March 2025

March 7, 2025	Advance Registration Deadline (discounted rates)
March 14, 2025	Late-Breaking and Clinical Trials Abstract Withdrawal Deadline
March 14, 2025	Abstract Submission Deadline: Undergraduate Student Caucus and Poster Competition
March 14, 2025	Abstract Submission Deadline: AACR Special Program for High School Students

March 14, 2025

March 14, 2025
March 25, 2025
March 25, 2025

March 25, 2025

March 31, 2025
March 31, 2025

April 2025

April 8, 2025
April 11, 2025
April 25, 2025
April 25, 2025
April 25, 2025

Cancellation Deadline for Registration Refunds (less \$125 processing fee)

Housing Reservation Deadline
Regular Abstract Titles and Texts Posted to Online Itinerary Planner (4:30 p.m. ET)
Late-Breaking and Clinical Trials Abstract Titles Posted to Online Itinerary Planner (4:30 p.m. ET); Abstract Texts Embargoed until April 25, 2025

Membership Application Deadline to Register for the Annual Meeting at the Member Rate Onsite

Registration Deadline: Undergraduate Student Caucus and Poster Competition
Registration Deadline: AACR Special Program for High School Students

Annual Meeting App Available for Download (tentative)

Regular Abstracts Published in an Online-only Supplement to *Cancer Research*

Onsite Registration Opens at McCormick Place Convention Center (12:00 p.m. CT)

AACR Annual Meeting Begins (3:00 p.m. CT)

Late-Breaking and Clinical Trials Abstract Texts Posted to Online Itinerary Planner and Meeting App (12:00 p.m. CT) and Published in an Online-only Supplement to *Cancer Research*



WHY YOU SHOULD ATTEND

Why You Should Attend the World's Most Important Cancer Research Meeting

The AACR Annual Meeting highlights the work of the greatest minds in cancer science and medicine from institutions all over the world. This meeting presents the many scientific discoveries across the breadth of cancer research—from prevention, early detection, and interception; to cancer biology and genetics, translational, and clinical studies; to survivorship, population sciences, and advocacy. You will be exposed to the latest developments in all areas of cancer research, form new collaborations, and learn how to apply exciting new concepts, tools, and techniques to your own research.

This year's program, with the theme of "Unifying Cancer Science and Medicine: A Continuum of Innovation for Impact," will be a comprehensive, cutting-edge scientific event that you will not want to miss!

The AACR Annual Meeting 2025 Will Highlight:

- **Educational Program**—More than 65 highly valuable Educational Sessions and Methods Workshops will be offered beginning on Friday, April 25. Access to these important sessions led by cancer experts is available to all attendees by purchasing the Educational Program Pass during registration.
- **Clinical Trials**—Included in the growing science-based clinical research program at the AACR Annual Meeting, clinical trials will once again be presented in Clinical Trials Plenary Sessions, Minisymposia, and Poster Sessions. A total of 243 clinical trials were presented at last year's Annual Meeting, including 37 oral presentations of highly rated abstracts.
- **NextGen Stars Program**—The NextGen Stars oral presentations program will showcase early-career scientists who are AACR Associate Members and early-career and early-stage Active Members up to the level of assistant professor or equivalent. AACR is committed to providing early-career scientists with

opportunities to showcase their research and network with other cancer experts. To apply, submit your abstract and supporting materials by **October 10, 2024**. Details can be found at AACR.org/AACR2025.

- **Wrap-Up Plenary Session**—The meeting will close with key opinion leaders presenting the most exciting highlights from the meeting and providing visionary remarks about cancer research opportunities in the future. The Wrap-Up Plenary Session will take place on Wednesday, April 30, 12:00 p.m.-1:30 p.m.

• Second Annual AACR Oncology Industry Partnering Event: From Cancer Discoveries to Patients

April 24-25, 2025

McCormick Place Convention Center, West Building | Chicago, IL
Cochairs: Michael A. Caligiuri, City of Hope; Christiana Bardon, MPM | BiolImpact Capital; William N. Hait, Johnson & Johnson

The AACR is excited to present the Second Annual AACR Oncology Industry Partnering Event: From Cancer Discoveries to Patients on April 24-25, 2025, in Chicago, immediately prior to the AACR Annual Meeting 2025. Following the success of the inaugural program in San Diego that attracted over 400 attendees, the 2025 program will expand to accommodate up to 1,000 attendees and provide opportunities for presentations from both major pharmaceutical companies and small-mid size biotechnology companies.

This annual event provides a unique networking experience for attendees to learn from our industry partners who will highlight the oncology pipelines and platforms of leading pharmaceutical and biotechnology companies as well as emerging scientific themes across the biopharmaceutical industry. This oncology-focused event will once again feature thought-leaders who will share their innovation strategies for drug development and present analysts and investors new partnership and licensing opportunities to advance these concepts.

WHY YOU SHOULD ATTEND *(cont'd)*

The AACR is known for fostering innovation through translational science, turning clinical observations and early scientific discoveries into actionable insights and patient interventions more efficiently. Hosting the Annual AACR Oncology Industry Partnering Event is an important example of how the AACR is connecting academia, industry, and the business community to accelerate progress with cancer treatments and cures that directly benefit patients globally.

All sessions and events will be held in the McCormick Place West Building on Thursday, April 24, and Friday, April 25.

A special track devoted to the education of academic researchers interested in entrepreneurship will once again be included in the AACR Annual Meeting program.

- **25th Anniversary of AACR Minorities in Cancer Research (MICR)**—MICR is a membership group within the AACR committed to preventing and curing cancer and eradicating cancer health disparities while meeting the professional needs and advancing the careers of minority scientists. It is led by the MICR Council, which is the advisory body to the AACR leadership on issues of concern to minority investigators and is also responsible for spearheading initiatives and organizing activities of MICR through its committees.

MICR will present several exciting and engaging activities during the AACR Annual Meeting to celebrate this 25th anniversary.

Why You Should Submit an Abstract

The AACR Annual Meeting is the premier event for presenting the cutting-edge cancer science that is shaping the future of cancer research and delivering cures to communities. Every abstract that is accepted for publication in the online *Proceedings* of the AACR is presented at the AACR Annual Meeting as a proffered paper, and all abstracts are considered for oral presentation in Minisymposia.

Opportunities to give an oral presentation and simultaneously publish your work in a high-impact AACR journal are available for abstract presenters. See page 24 for more details.

All abstracts accepted for presentation at the meeting will be considered for inclusion in the official AACR Annual Meeting 2025 press program, which garners widespread national and international news coverage. See page 21 for more details.

UNIFYING
CANCER SCIENCE AND **MEDICINE:**
A CONTINUUM OF **INNOVATION** FOR **IMPACT**



PROGRAM

Beginning at 3:00 p.m. on Friday, April 25, and continuing all day Saturday, April 26, 2025, a program of Educational Sessions and Methods Workshops will be presented. The program on Saturday will conclude with the Discovery Science Plenary Session titled, Novel Mechanisms Influencing Cancer Evolution (4:15 p.m.-6:15 p.m.) The Opening Ceremony and the Opening Plenary Session will take place on Sunday morning, April 27. The meeting will conclude at 1:30 p.m. on Wednesday, April 30.

The AACR Annual Meeting 2025 is an ACCME-accredited activity, and the majority of scientific sessions will be accredited. Owners or employees of ineligible companies are not eligible to participate as planners or speakers for accredited sessions. (Ineligible companies are defined as those whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used on or by patients.)

The 2025 Program in Progress follows:

Educational Program: Educational Sessions and Methods Workshops

The Educational Program is an integral part of the meeting and provides attendees with an opportunity to expand their knowledge base in new and exciting fields. Add the Educational Program Pass to your registration to access this important program. The Educational Program consists of more than 65 unique sessions covering all areas of cancer research and features updates on

critical topics and new technologies. As part of these sessions, the following popular sessions and topics will be included. Watch for more information at AACR.org/AACR2025.

- **Tumor Immunology and Immunotherapy for Nonimmunologists.** This exciting session is part of the yearly programming presented at the AACR Annual Meeting and organized in conjunction with the AACR Cancer Immunology Working Group. This popular session provides a comprehensive review of hot topics in the field and allows ample time for questions from the audience.
- **Chemistry to the Clinic.** This multi-part series, organized in conjunction with the AACR Chemistry in Cancer Research Working Group, provides meeting attendees with foundational knowledge of critical elements of the cancer drug design and development process, such as lead optimization and identification of molecular targets and novel drug modalities.
- **Clinical Trial Design.** These Methods Workshops will provide attendees with a historical and methodologic understanding of clinical trials and demonstrate how to design an appropriate trial to answer the scientific questions presented by emerging treatments. Sessions will also focus on biostatistics in clinical trials.
- **Data Science.** Several sessions will focus on exciting advances and emerging opportunities in cancer research. Sessions will also explore the integration of data science in advancing cancer science and medicine.

Additional details will be posted at AACR.org/AACR2025.

ABOUT THE IMAGE ABOVE

The cover shows a confocal immunofluorescence image of mesothelin targeting CAR T cells (pink/salmon) secreting bispecific T-cell engaging molecules (TEAMs). The CARs are targeting pancreatic cancer cells (cyan), and the TEAMs target cancer-associated fibroblasts (magenta). *Clinical Cancer Research*, May 1, 2024; 30(9).

Plenary Sessions

Saturday, April 26, 2025

Discovery Science Plenary

Novel Mechanisms Influencing Cancer Evolution

Chair: Ashok R. Venkitaraman, Cancer Science Institute of Singapore, Singapore

Inigo Martincorena, Wellcome Sanger Institute, Cambridge, United Kingdom

Nicola Segata, University of Trento, Trento, Italy

Yang Shi, Ludwig Institute for Cancer Research, Oxford, United Kingdom

M. Celeste Simon, Abramson Family Cancer Research Institute, Philadelphia, PA

Sunday, April 27, 2025

Opening Plenary Session

Unifying Cancer Science and Medicine:

A Continuum of Innovation for Impact

Chairs: Matthew G. Vander Heiden, Koch Institute for Integrative Cancer Research at MIT, Cambridge, MA; **Lillian L. Siu**, UHN Princess Margaret Cancer Centre, Toronto, ON, Canada

Johanna A. Joyce, University of Lausanne (UNIL), Lausanne, Switzerland

Paul S. Mischel, Stanford University School of Medicine, Stanford, CA

Kevan M. Shokat, University of California San Francisco, San Francisco, CA

Catherine J. Wu, Dana-Farber Cancer Institute, Boston, MA

Monday, April 28, 2025

Innovative Technologies Driving Advances in Cancer Research

Chair: Alberto Bardelli, IFOM and University of Turin, Turin, Italy

Marcela V. Maus, Massachusetts General Hospital, Boston, MA

Trevor J. Pugh, University of Toronto, Toronto, ON, Canada

Matthias P. Lütolf, Swiss Federal Institute of Technology Lausanne (EPFL), Lausanne, Switzerland

Muhammad Shaalan Beg, National Cancer Institute, Bethesda, MD

Tuesday, April 29, 2025

Targeting the Cancer Ecosystem

Chair: Mara H. Sherman, Memorial Sloan Kettering Cancer Center, New York, NY

Mariam Jamal-Hanjani, University College London (UCL) Cancer Institute, London, United Kingdom

Matthew (Max) F. Krummel, University of California San Francisco, San Francisco, CA

Yardena Samuels, Weizmann Institute of Science, Rehovot, Israel

Kurt A. Schalper, Yale University, New Haven, CT

Wednesday, April 30, 2025

Opportunities in Predictive Oncology

Chair: David W. Craig, City of Hope Comprehensive Cancer Center, Duarte, CA

Andrea Califano, Columbia University, New York, NY

Christina Curtis, Stanford University, Stanford, CA

Trey Ideker, University of California San Diego, San Diego, CA

Marleen Kok, Netherlands Cancer Institute, Amsterdam, Netherlands

Wednesday, April 30, 2025

AACR Annual Meeting 2025 Highlights: Vision for the Future

Cochairs: Matthew G. Vander Heiden, Koch Institute for Integrative Cancer Research at MIT, Cambridge, MA; **Lillian L. Siu**, UHN Princess Margaret Cancer Centre, Toronto, ON, Canada

Speakers to be announced

Presidential Select Symposium

Monday, April 28, 2025

Presidential Select Symposium: Leveraging Science to Reduce the Cancer Burden Worldwide

Chair: Robert G. Bristow, Manchester Cancer Research Center, Manchester, United Kingdom

Introduction: Patricia M. LoRusso, Yale University School of Medicine, New Haven, CT

Speakers to be announced

Major Symposia

A Decade of Ferroptosis: From Breakthroughs to Therapeutic Opportunities

A New Frontier for Combination Therapy: Identification and Pharmacologic Targeting of Non-oncogene Dependencies in Coexisting Malignant State

AACR Minorities in Cancer Research (MICR) Scientific Symposium

AACR-Bayard D. Clarkson Symposium: Unraveling the Role of Lineage Plasticity in Drug Resistance

Advances in Cancer Vaccines

Advances in Understanding How HIPPO Signaling Pathway Regulates in Cell Fate, Tumor Growth, and Therapy Response

Cancer Survivorship

Cardio-oncology

Climate Change and Cancer

Clinical Applications of Systems Biology

Clonal Hematopoiesis and Beyond: The Aging Immune System in Cancer

Developments in RAS Signaling Inhibition: Bench to Bedside

ecDNA Amplification and Rearrangements: Genesis, Drivers, and Pathology

Epigenetics: Mechanism to Translational Impact in Solid Tumors

Evolutionary Therapies

Exploiting Synthetic Lethality in the Clinic: Novel Agents beyond PARP Inhibitors

Fusion Oncoprotein-driven Malignancies: From Mechanisms to Therapies

Harnessing the Microbiota for Cancer Treatment

Host Parameters of Cachexia and Inflammation and Early Biomarkers of Clinical Response

Immunology of Premalignancy In Situ

Immunometabolism

Influence of Metabolism on Cell Cycle Progression

Influence of the Nervous System on Cancer

Insights in Carrier Systems, Radionuclides, and Sensitivity for Optimal Radiotheranostics

Intratumoral Microbiota and Cancer: Friend or Foe?

Lymph Nodes and Lymphoid Structures Affecting Anti-tumor Immunity

Mechanisms of Heterogeneity and Therapeutic Responses

Mechanisms Underlying Geographical Disparities in Cancer Pathogenesis

Metabolic and Environmental Triggers for Cancer Evolution

Metabolism and Organelle Biology in Cancer

Minimal Residual Disease

Mitochondrial Biology in Cancer

Overcoming the Tumor Suppressive Role of the Innate Immune System within the Tumor Microenvironment

Phase Separations and Condensates

The Radiobiology Underpinning the Therapeutic Ratio

Stress, Senescence, and Cellular Aging in Cancer

Targeting Innate Immune Cell Subsets

Tissue Mechanics and Physical Forces in Cancer

Transcending Boundaries: Harnessing Induced Proximity Pharmacology for Next-Generation Anti-Cancer Therapies

Understanding Organ-tropic Metastasis

Unmasking Resistance: Deciphering Mechanisms and Charting New Frontiers in Cancer Therapies

Unraveling the Mechanisms of Action for Combined Immune-Radiation Therapy

Unraveling the Developmental Roots of Childhood Cancer

What are the Best Antigens for Anti-tumor Immunity?

Advances in Diagnostics and Therapeutics

Advances in the How, Why and When Neoadjuvant Treatment for Solid Tumors

Bispecifics: The Case for Duality

Challenges and Opportunities in the Development of Next Generation Antibody Drug Conjugates

Next Generation Cell Cycle Inhibitors: Bench to Beside

Protein Degraders: Progress to the Clinic

Advances in Early Detection and Interception

Challenges to Implementing Cancer Early Detection
Novel Multicancer and Single Cancer Detection Technologies
Opportunities in Cancer Early Detection

Advances in Hematologic Malignancies

Advances in Myeloma Research and Treatment
Chromothripsis in Hematological Malignancies
Epigenetics and RNA Modification in Hematologic Malignancies
Leukemia: Tracking Early Disease and MRD
Lymphoma: Updates from Bench to Bedside

Advances in Organ Site Research

A Paradigm Shift in Therapies for Kinase-driven Hepatobiliary Cancer
Curing Pancreatic Cancer
Development of Chemo-immunotherapy in Gastro-esophageal Cancer
DNA Damage and Inflammation in the Development and Progression of Brain Cancer
Early-onset Colorectal cancer: From Clinical Evidence to Biological Insights
Emergence of Neuroendocrine Cancers as Resistance to Therapy
Liver Hepatocellular Carcinoma and Metabolic Dysfunction-associated Steatohepatitis
New Paradigms in Lung Cancer Treatment
Optimizing and Moving beyond PSMA Based Radiopharmaceuticals for Prostate Cancer
Rare Tumors
Update from SABCS 2024

Advances in Population Sciences

Cancer in Understudied Populations: How Do We Advance Science and Improve Patient Outcomes?
Emerging Risk Factors for Cancer: Ultra-processed Foods and Polyfluoroalkyl Substances
Sustaining Cancer Prevention and Control Programs in Diverse Communities: Model Community-Living Learning Health Systems

Advances in Prevention Research

Comparative Oncology: Nature's Solutions to Cancer Prevention
HPV and Cervical Cancer in Low- and Middle-Income Countries
New Game Plan for Cancer Prevention: Tackling Tumors by Intercepting the Host Microenvironment
Prevention at the Crossroad of Exposome and Socio-Geographical Determinants
Prevention of Second Cancers
Viruses in Cancer and Viral-induced Cancers

Advances in the Science of Cancer Disparities

Cancer and Indigenous Populations: From Risk Factors to Cancer Care Delivery to Policy
Geography and Molecular Taxonomy of Prostate Cancer
Health Inequities across the Cancer Clinical Research Continuum
Improving Outcomes for Young Adults with Cancer

Advances in Technologies

AI for Cancer Drug Discovery
Allostery as a Source of Breakthrough Cancer Therapeutics
Multi-modal Data Integration for Outcome Predictions

Forums and Special Sessions

AACR-JCA Joint Session on Brain Cancer

AACR-ASCO Joint Session

Advances in Tumor-infiltrating Lymphocyte (TIL) and CAR T Therapies

AI-based Biomarkers and Digital Pathology in Precision Oncology

Bringing Science to the Clinic: Overcoming Hurdles for Therapeutic Translation

Dietary Intervention to Improve Response to Cancer Therapy and Reduce Side Effects

Intra-tumor Heterogeneity of Cancer Models: Towards More Realistic Models for Therapy

Opportunities, Challenges, and Approaches in Multi-Center Cancer Clinical Trials: In Collaboration with the AACR Cancer Centers Alliance

Realizing the PRO-tential: Implementing Patient Reported Outcomes in Health Systems to Improve Health and Well-being

Relevance of Biostatistics in Preclinical Studies and Clinical Trials

The Role of Surgery in Modern Cancer Treatment: Missed Opportunities or a Dying Therapeutic Approach

Promoting Societal Trust in Science and Cultivating Diversity

New Drugs on the Horizon Sessions

Held in collaboration with the AACR Chemistry in Cancer Research Working Group, this special three-part session series features first disclosures of the chemistry and biology of small- and large-molecule agents that are currently being or will soon be actively investigated in clinical trials for the treatment of cancer. The abstract submission and review process is distinct from the regular and late-breaking abstract submission processes. The deadline to submit an abstract for consideration is **November 1**. For more information, visit the New Drugs on the Horizon page on [AACR.org/AACR2025](https://aacr.org/AACR2025).

Science and Public Policy Program

Decisions made by policymakers in Washington, DC, have a direct impact on cancer research and the progress being made against cancer in the United States and throughout the world. The AACR sponsors sessions with policymakers, academic researchers, patient advocates, cancer survivors, and industry representatives to foster dialogue about emerging topics in science and health policy as well as regulatory science and policy.

The **Science and Health Policy Track** includes sessions that will provide attendees with an opportunity to learn about how policy impacts science and vice versa. Science policy sessions will examine the current political environment affecting federal funding for the NIH and NCI, including highlighting ways for scientists to get involved in advocating for robust, sustained, and predictable budget increases.

Health policy sessions will explore how scientific evidence can inform policy on cancer prevention and control and what impact policies are having on patients and communities. Past health policy sessions have covered topics such as e-cigarettes and tobacco control measures, the Affordable Care Act, and ways to prevent and control pathogen-related cancers, such as increasing the use of the human papillomavirus (HPV) vaccine.

The **Regulatory Science and Policy Track** includes informative sessions designed to highlight recent regulatory developments and provide an open forum for the consideration of issues that the FDA faces as the agency seeks to accelerate the pace of approval of safe and effective treatments for patients with cancer. These sessions offer an opportunity for attendees to discuss cutting-edge issues in cancer drug, biologic, and diagnostic regulation with stakeholders from academia, industry, advocacy, and government. Past regulatory science and policy topics have included strategies for increasing participation of underrepresented populations in clinical trials, guidance for using real-world evidence to support clinical trials during the COVID-19 pandemic, regulatory considerations for developing liquid biopsy tests, implications of site-agnostic therapy approval for drug development, and applications for artificial intelligence/machine learning in regulatory decision-making.

The **Science of Survivorship Track** includes sessions highlighting new and high-value areas of research to address the array of challenges facing long-term cancer survivors. Sessions invite trans-sector discussion among the survivor and advocacy communities, basic and clinical researchers, industry representatives, health care providers, and government officials. Past science of survivorship topics have included aging and cancer, long-term survivorship in vulnerable populations, development of new survivorship models, patient-reported outcomes, data sharing, and patient engagement.



SPOTLIGHT ON CLINICAL TRIALS

Submit Your Clinical Trials Abstracts to the AACR Annual Meeting 2025

Become a part of our growing science-based clinical research program at the AACR Annual Meeting and help us showcase how research continues to transform the lives of cancer patients.

Why You Should Submit

- Numerous and unique oral presentation opportunities, including:
 - Four Clinical Trials Plenary Sessions offering companion presentations discussing the science behind the trials presented
 - Three Clinical Trials Minisymposia
- Poster presentations
- Opportunities for extensive national media coverage through the AACR press program
- Opportunities to publish a manuscript in one of the AACR's highly regarded journals, including possible simultaneous publication with your abstract presentation
 - Review the FAQ relating to simultaneous publication in the AACR Journals for more information (AACRJournals.org/pages/am2025-faq)
 - Contact aacrpublications@aacr.org with any questions
- No restrictions on presenters for poster presentations if the presentation is CME-compliant. Owners or employees of ineligible companies are not eligible to participate as a speaker if the work is selected for an oral presentation. Visit the CME page at AACR.org/AACR2025 for more information.

What to Submit

- Any phase (0, first-in-human, I, II, III, or any combination) abstract from national or international clinical trials
- Trials for solid tumors or blood cancers in adult and pediatric patients

- Promising ongoing trials, or unique trial designs that have not yet yielded results. Select the Clinical Trials in Progress category (CT01).
- Encore clinical trials presentations that have been presented solely in abstract form, including publication in conference proceedings. Submissions must include significant additional data from the previous presentation (as determined by the AACR Clinical Trials Committee).
- See page 31 for clinical trials (CT) abstract categories and visit AACR.org/AACR2025 for submission guidelines.

When to Submit

- Submit your completed or placeholder abstract(s) by the January 16, 2025 deadline for clinical trials and late-breaking abstracts. The clinical trials (CT) abstract categories will not be available for submissions for the November 26, 2024 deadline.
- Manuscript submission deadline for simultaneous publications is February 24, 2025.
- Final results and conclusions for placeholder abstracts are due by February 18, 2025.

AACR Annual Meeting 2024

37 CLINICAL TRIALS ABSTRACTS PRESENTED IN PLENARY SESSIONS AND MINISYMPOSIA

145 CLINICAL TRIALS ABSTRACTS PRESENTED IN POSTER SESSIONS

61 CLINICAL TRIALS IN PROGRESS ABSTRACTS PRESENTED IN POSTER SESSIONS

243 TOTAL CLINICAL TRIALS ABSTRACTS PRESENTED



PROFESSIONAL ADVANCEMENT OPPORTUNITIES

In support of its mission to promote the education and training of cancer scientists and clinicians, and to cultivate a highly skilled and diverse cancer research workforce, the AACR provides AACR Annual Meeting attendees at all career stages—from high school and undergraduate students to senior investigators—with opportunities to advance their careers. For more information about any of the professional development opportunities that follow, visit AACR.org/PAS.

NextGen Stars

The AACR Annual Meeting 2025 marks the 11th anniversary of the prestigious and competitive AACR NextGen Stars program. Early-career scientists can apply to give a presentation in a Major Symposium or Advances Session at the AACR Annual Meeting 2025. Speaking slots are limited and are only available to AACR Associate Members and to AACR Active Members who are not above the level of assistant professor or equivalent. The NextGen Stars program provides an exciting opportunity to increase the visibility of early-career and early-stage scientists at the AACR Annual Meeting and to support their professional development and advancement.

The deadline to submit applications is **5:00 p.m. ET, October 10, 2024**. Applications consist of an extended abstract (limit 8,000 characters), a CV, and a letter of recommendation from a P.I., department head, or another mentor who is familiar with the applicant's work. Applicants selected as NextGen Stars for 2025 will receive travel support and complimentary registration for the meeting. Details can be found at AACR.org/AACR2025 under the "NextGen Stars" tab.

Professional Advancement Series

Exclusive Member Benefit

The Professional Advancement Series of sessions has long been an integral part of the AACR Annual Meeting experience and is dedicated to the education, training, and career advancement of cancer research investigators at all stages of their careers. A collaborative effort each year by the AACR Science Education and Career Advancement Committee, Minorities in Cancer Research (MICR) Council, Women in Cancer Research (WICR) Council, Associate Member Council (AMC), and the Publications Committee, these sessions provide several interactive and engaging professional development and career advancement opportunities to investigators at all levels, including students, early-career scientists, and early-stage investigators.

All Professional Advancement Sessions are free and exclusive to AACR members. There is no cost to join the AACR as an Associate Member (graduate students, medical students and residents, and clinical and postdoctoral fellows who are enrolled in education or training programs that could lead to a career in cancer research) or Student Member (undergraduate and high school students).

If you are not an AACR member, you are strongly encouraged to join the AACR and take advantage of the opportunity to attend these sessions and receive the many other benefits of membership, including the privilege of sponsoring abstracts, significantly reduced member registration rates, and more. Visit AACR.org/Membership to apply today!

The full listing of sessions in the Professional Advancement Series to be held at the Annual Meeting 2025 will be announced in the fall. Space is limited and participation is available on a first-come, first-served basis for all sessions except the Grant Writing Workshop and Personalized Career Conversations, which require advance registration. Visit AACR.org/PAS for session updates and to preregister.

PROFESSIONAL ADVANCEMENT OPPORTUNITIES *(cont'd)*

Grant Writing Workshop

This session aims to provide new investigators (postdoctoral fellows and new faculty) with practical tools to write competitive grants. The focus is on how to write well for grants, how to structure an aims page to help the reviewer “get” all the relevant information, and how to write an aims page that makes a reviewer excited about your grant. We will address different types of grants from NIH (Rs, Ks, Fs etc.) as well as grants from other countries. We will also discuss Summary Statements (“pink sheets”) and have a roundtable where participants can network and ask experienced scientists questions about the grants they are working on. Preregistration is required.

Personalized Career Conversations

This session provides a unique opportunity for early-career AACR Associate members to participate in 15-minute one-on-one conversations with distinguished cancer researchers from across various sectors—including academia, government, and industry. Distinguished session chairs will moderate informal discussions on important topics in the general session while one-on-one discussions are underway, and participants will have an opportunity to informally network with peers and members of the organizing groups to gain additional perspectives about various career topics. Preregistration is required to participate in one-on-one conversations.

How to Design a Successful Career Path in Cancer Research: The Do's and Don'ts for Early-stage Investigators

This session is intended for early-stage investigators to acquire skills and develop key strategies in order to avoid pitfalls and develop alternative tactics to enhance the probability of success in their first independent leadership position. This session is designed specifically for those who have already made the transition from trainee to the next career stage inside and outside of academia. This is an absolute must-attend session for all early-stage investigators.

Navigating the Path to a Successful Career in Cancer Research

This exciting and interactive session and networking reception provides a forum in which students, early-career researchers, and early-stage investigators can discuss critical career development topics and survival skills during informal mentored roundtable discussions. Tables with predetermined professional development topics are moderated by established scientists from a variety of sectors, including academia, government, and industry.

Productive Peer Review: Improving Science while Avoiding Common Pitfalls

This interactive session will focus on how to become a proficient reviewer and how to effectively respond to reviewers' comments. The Editors will share examples and tips for communication, and lead discussions with the session participants. Preregistration is required.

Building an Effective Mentorship Team: Essential Strategies at Every Stage in Your Career

Navigating a successful career in cancer research, whether in academia, industry, or government, can be daunting. Establishing a team of mentors to guide you along the way is an essential step as you begin your journey. In this highly interactive session, cancer researchers with a strong commitment to mentoring and supporting the professional development of cancer scientists will share their knowledge and experience leading mentoring teams. Hear their stories and learn how to build and take full advantage of an effective mentoring team, whether you are a trainee, an early-stage investigator, or a later stage investigator considering a career change.

Additional Professional Development Opportunities

Professional Development Workshop: Women and Power—Advancing and Securing Your Career in Science

Sponsored by The Victoria's Secret Global Fund for Women's Cancers, in partnership with Pelotonia and AACR-Women in Cancer Research

This highly interactive, professional development workshop will focus on leadership training for women in science at all stages of their careers. The four-hour workshop will consist of a plenary session and small group exercises where attendees will hone their ability to recognize their sources of power, understand and leverage their circles of influence to achieve audacious goals, and deepen their connections with female colleagues. The workshop will be led by hfp consulting, a globally-recognized firm that specializes in career development and leadership training exclusively for scientists. Pre-registration is required as space is limited for this special workshop. Visit [AACR.org/PAS](https://aacr.org/PAS) for session updates and to preregister. Email wicr@aacr.org with questions.

PROFESSIONAL ADVANCEMENT OPPORTUNITIES *(cont'd)*

20th Annual Undergraduate Student Caucus and Poster Competition

With more than 250 undergraduate student participants every year, the AACR Undergraduate Student Caucus and Poster Competition continues to be the premier event for undergraduate students attending the AACR Annual Meeting. Now in its 20th year, this program provides undergraduate students with the opportunity to learn more about current research in the cancer field, hear from investigators about educational pathways and career development, explore career options in the cancer field, and compete for the Margaret Foti Foundation Undergraduate Prizes for Cancer Research while presenting research. Undergraduates at all levels and postbaccalaureate students are welcome to participate in this highly anticipated program at no cost. To learn more about this exciting opportunity, please visit [AACR.org/ScienceEducation](https://aacr.org/ScienceEducation) or send an email to scienceeducation@aacr.org.

Abstract Submission Deadline (presenting): March 14, 2025

Registration Deadline (nonpresenting): March 31, 2025

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

The Special Program for High School Students promotes interactions between senior cancer scientists and promising students in order to facilitate the contributions of these students to scientific research and the conquest of cancer. Don't miss this wonderful opportunity to learn about cancer research and careers in biomedical research and medicine. The session is free, but space is limited. Learn more at [AACR.org/HighSchoolProgram](https://aacr.org/HighSchoolProgram).

Abstract Submission Deadline (presenting): March 14, 2025

Registration Deadline (nonpresenting): March 31, 2025

CancerCareers.org

AACR's CancerCareers.org is a year-round career development resource center. The Center provides an unparalleled opportunity for cancer and biomedical research scientists, at all professional levels, and for clinicians who are seeking to advance their scientific careers to be provided with career development resources. Employers who are seeking to recruit highly qualified scientists are offered the opportunity to utilize the resources available to them on CancerCareers.org as a premier recruiting tool. For more information, visit [CancerCareers.org](https://cancercareers.org) or email customerservice@cancercareers.org.

AACR Annual Cancer and Biomedical Research Career Fair

The AACR Annual Cancer and Biomedical Research Career Fair will take place at the AACR Annual Meeting on Saturday, April 26, 2025, from 9:00 a.m.-3:00 p.m. CT. Visit [CancerCareers.org](https://cancercareers.org) for more information or to register for the 2025 Career Fair, or email careerfair@aacr.org.

Employers will:

- Meet with candidates at all scientific levels
- Post open positions
- Review CVs/resumes

Job seekers will:

- Meet with employers face-to-face from academia, industry, and government institutions
- Upload CVs/resumes on [CancerCareers.org](https://cancercareers.org)
- Sign up for Job Alerts

CancerCareers.org Hub

The AACR provides career and professional development opportunities to scientists at all career levels at the CancerCareers.org Hub. AACR will host several career development and recruiting events at the AACR Annual Meeting 2025 beginning on Sunday, April 27 through Wednesday, April 30, 2025, in the CancerCareers Hub, located in AACR Central in the McCormick Place Convention Center.

The CancerCareers Hub will be open during the following hours:

Sunday, April 27	12:00 p.m.-5:00 p.m.
Monday, April 28	9:00 a.m.-5:00 p.m.
Tuesday, April 29	9:00 a.m.-5:00 p.m.
Wednesday, April 30	9:00 a.m.-12:00 p.m.

Create your free jobseeker profile account to search for positions, post your CV/resume, create Job Alerts, and take advantage of other features. For more information, visit [CancerCareers.org](https://cancercareers.org) or email customerservice@cancercareers.org.

Networking Hubs

Taking place on Sunday, April 27, from 6:30 p.m.-8:00 p.m. CT, the AACR Networking Hubs will once again offer a "can't miss" opportunity for young investigators. The Hubs will target several rapidly advancing areas of research. There will be no formal program, but the Hubs offer a fun opportunity to socialize and network with colleagues, potential collaborators, and some of the most respected investigators in the cancer research community. Look for more information in the coming months on the [Professional Development Opportunities](https://aacr.org/ProfessionalDevelopmentOpportunities) tab on [AACR.org/AACR2025](https://aacr.org/AACR2025).



EXHIBIT SHOW

The 2025 AACR Exhibit Show will include a wide array of companies with the latest products and services for laboratory and clinical research. Additional areas of interest include the Nonprofit Section, AACR Publications and Publisher's Row, AACR Advocacy Partners' Pavilion, and AACR Central, which is the main hub for AACR services.

The exhibits, located adjacent to the poster sessions, make a significant contribution to the educational value of the meeting. Please add time to your overall schedule to visit the Exhibit Show. Complimentary coffee, tea, and soft drinks will be served in the Exhibit/Poster Hall at specified times on each day when exhibits are open.

In addition, great opportunities to connect with exhibitors and other attendees will be available in the Exhibit Hall.

- Visit the Headshot Lounge in the Exhibit Hall to update your headshot for your business card, resume, and social media.
- Don't forget to take a much-deserved break in the Wellness Lounge. Features include chair massages, flavored water, and therapy dogs.
- Enhanced refreshment breaks, featuring a wide variety of specialty snacks, will be served on Monday and Tuesday afternoon. These breaks facilitate networking between attendees and exhibitors.
- Be sure to participate in the Explore! game, available through the AACR Annual Meeting App. By visiting all participating exhibitors, you will be entered to win an Amazon gift card. Additional information will be available in the App and on the AACR website.
- The Exhibitor Spotlight Theaters are reserved by exhibiting companies to present their latest products and services in special 60-minute sessions during exhibit hours. For a full list of presentations, please refer to the Online Planner or the AACR Annual Meeting App.

If your organization would like to exhibit and would like to receive an Exhibitor Prospectus, please contact the Exhibits Team at 215-440-9300 or by email at exhibits@aacr.org.

AACR Central

Located in the center of the Exhibit Hall, AACR Central serves as a hub for information and services for attendees and as an event space for various programs. Open during Exhibit Hall hours, AACR Central is home to the Membership Center, MICR Networking and Resource Center, WICR Networking and Resource Center, CancerCareers.org Hub, and information kiosks covering: Scientific Meetings and Workshops; AACR Foundation; Scientific Review and Grants Administration; Science Policy and Advocacy; and much more. The AACR Publications booth is conveniently located right next to AACR Central and is your source for AACR's peer-reviewed journals.

Visit AACR Central and check out the AACR Project GENIE® interactive display.

At AACR Central, attendees can:

- Apply for AACR membership, learn more about AACR member benefits, and check on the status of membership.
- Participate in networking events organized by the Associate Member Council (AMC), Minorities in Cancer Research (MICR) celebrating its 25th Anniversary in 2025, 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*® and *Leading Discoveries* magazines and the latest *AACR Cancer Progress Report* and *AACR Cancer Disparities Progress Report*.
- Discover the benefits of CancerCareers.org; pick up a copy of the Cancer Career Resource Guide; and learn how to apply for positions, create job alerts, update your profile, post positions online, and much more.

Publications Booth

The AACR Publications Booth (#2615) is located in the Exhibit Hall next to AACR Central. Visit AACR Publications to pick up the latest print issues of the highly esteemed AACR Journals and article collections on topics relating to the Annual Meeting sessions, meet with the Editors-in-Chief to better understand the types of research they are seeking to publish, and learn more about recent initiatives in the publishing program.

AACR Shop

Located outside of the Exhibit Hall, the AACR Shop is the place to get your AACR branded swag and show your support for cancer research.

Shop the AACR Cancer Research Saves Lives® collection and choose from new styles for 2025, featuring a wide assortment of AACR t-shirts, golf shirts, sweatshirts, hats, youth and baby apparel, mugs, water bottles, and much more. Stop by and purchase an AACR Annual Meeting 2025 branded t-shirt!

All purchases are tax deductible charitable donations, and proceeds go directly to the AACR to support our mission to prevent and cure all cancers.

Can't make the meeting in person? Shop online at **AACR.org/Shop** for the latest selection.





CONTINUING MEDICAL EDUCATION (CME)



The AACR's Continuing Medical Education (CME) Program brings the latest cancer research from "bench to bedside and back." The AACR is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education activities for physicians. The AACR CME Program consists of educational interventions designed to encourage the analysis and discussion of the latest findings in all areas of basic, translational, and clinical cancer research not only among researchers, but also by engaging clinicians in this scientific discourse. The AACR is committed to advancing the ability of clinicians to apply critical aspects of cancer research to the clinical practice of oncology to aid in the detection, diagnosis, treatment, and prevention of cancer. The AACR has approved this live activity for *AMA PRA Category 1 Credit(s)*[™]. This is a great opportunity to complete your required credit hours.



Meet Your MOC Point Requirements

If you are a physician, you can also earn Maintenance of Certification (MOC) points in the American Board of Internal Medicine Maintenance of Certification Program at the AACR Annual Meeting 2025.



AACR SCIENTIST ↔ SURVIVOR PROGRAM®

Commitment to Cancer Survivors and Patient Advocates

Patient advocates play a crucial role in cancer research. They educate the public about new research discoveries, partner with scientists on cancer research, guide health and regulatory policies, and raise precious funds for cancer research. The AACR celebrates the contributions of patient advocates to cancer research and encourages their attendance and participation at the AACR Annual Meeting.

Patient advocates are offered discounted registration rates to attend the AACR Annual Meeting.

AACR Scientist ↔ Survivor Program® at the AACR Annual Meeting

Now in its 27th year, the AACR Scientist ↔ Survivor Program® (SSP) at the AACR Annual Meeting is an education program for patient advocates. Led since its inception by Anna D. Barker, PhD, FAACR, of the Ellison Institute of Technology, SSP is designed to build enduring partnerships among the leaders of the scientific, cancer survivor, and patient advocacy communities worldwide. The program has a competitive application process which will open in September 2024.

The unique program provides an opportunity for patient advocates to learn about cancer research and network with scientists, physicians, health care professionals, and other advocates. Specifically, patient advocate representatives come together 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.

If you are interested in applying for this year's SSP, please visit **AACR.org/SSP2025** or email advocacy@aacr.org.

Patient Advocacy Programs at the AACR Annual Meeting

AACR offers a number of opportunities to encourage bidirectional communication between researchers and patient advocates at the AACR Annual Meeting, including the AACR Partners Pavilion, patient advocate abstracts, Patient Advocates in Research Awards, and patient advocate forums. For more information, please visit **AACR.org/patient-advocacy**.



PRESS COVERAGE AND SOCIAL MEDIA

Attracting Journalists Worldwide, Generating Major News Coverage

The AACR is the authoritative resource and voice for cancer research, and the AACR Annual Meeting garners the best in national and international news coverage. The AACR Annual Meeting 2024 attracted more than 200 registered reporters and generated more than 6,000 media clips in high-profile outlets such as The Associated Press, CNN, ABC News, FOX News, STAT, Reuters, HealthDay, and The Hill.

All abstracts accepted for presentation at the meeting will be considered for inclusion in the official AACR Annual Meeting 2025 press program. **For more information, please contact Julia Gunther at julia.gunther@aacr.org or Rick Buck at rick.buck@aacr.org.**

Utilizing Social Media to Amplify the Conversation

The AACR Annual Meeting 2024 also generated significant social media activity in the cancer research community. Social media highlights included:

6,750+

PEOPLE JOINING THE CONVERSATION ON X

28,000+

POSTS ABOUT THE MEETING

571.7

MILLION IMPRESSIONS (RECORD HIGH)

Social media users who are interested in the AACR Annual Meeting 2025 are encouraged to follow and use the meeting hashtag: **#AACR25**.

     [Blog.AACR.org](https://blog.aacr.org)



FINANCIAL SUPPORT FOR ATTENDANCE

Through the generosity of its loyal supporters, the AACR is pleased to provide financial support to meritorious undergraduate students and early-career scientists residing anywhere in the world, and also to members of minority groups residing in the United States and Canada that have been traditionally underrepresented in cancer research and biomedical science, to assist them in attending the AACR Annual Meeting. Detailed information about these award programs, including eligibility and selection criteria, is available below.

AACR Scholar-in-Training Awards

Exclusive Member Benefit

Scholar-in-Training Awards are available for Associate Members in good standing who are the presenters of meritorious proffered papers at the AACR Annual Meeting 2025. Nonmember graduate students, medical students and residents, clinical fellows or equivalent, and postdoctoral fellows who wish to apply for a Scholar-in-Training Award should submit their AACR membership applications by **October 28, 2024**. The AACR Membership Application Form is available on the AACR website at **AACR.org/Membership**. To apply for a Scholar-in-Training Award, an applicant must first submit an abstract, and then complete a separate award application. While awards will be based on meritorious applications across scientific disciplines, some funding for the AACR Annual Meeting 2025 has been designated to support awards for applicants meeting specific scientific or geographic criteria. For details of the application process and the selection criteria, please visit **AACR.org/SITA**. Additional information will be posted as it becomes available.

Application Deadline: November 26, 2024

AACR Global Scholar-in-Training Award

Global Scholar-in-Training Awards (GSITA) are available for eligible early-career investigators in countries building cancer research capacities. Applicants must submit an abstract to the AACR Annual Meeting 2025 and then complete a separate GSITA application.

Applicants must be Associate Members of the AACR in good standing (membership current through 2024). Student Members completing a Bachelor of Medicine, Bachelor of Surgery (MBBS), or other international undergraduate medical degree equivalent to an advanced medical degree in the United States, are also welcome to apply. Nonmember undergraduate students pursuing an international medical degree, graduate students, medical students and residents, clinical fellows or equivalent, and postdoctoral fellows who wish to apply for a GSITA should submit a Membership Application Form by **October 28, 2024**, before submitting their GSITA application. For additional details and a list of eligible countries, visit **AACR.org/GSITA**.

Application Deadline: November 26, 2024

AACR Patient Advocates in Cancer Research Awards

AACR Patient Advocates in Cancer Research Awards are available to patient advocates presenting meritorious abstracts at the AACR Annual Meeting. To apply for this award, an applicant must first submit an abstract, and then complete a separate award application. For more information, please visit **AACR.org/patient-advocacy**.

Application Deadline: December 13, 2024

AACR Minority Scholar in Cancer Research Awards

Presenters of proffered papers who are full-time predoctoral (graduate or medical) students, residents, and clinical or postdoctoral fellows who are engaged in cancer research or have the training and potential to make contributions to this field are encouraged to apply for this meritorious scholar award. This program applies only to racial/ethnic minority groups that have been identified by the NCI as being traditionally underrepresented in cancer and biomedical research, e.g., African American/Black, Alaskan Native, Hispanic/Latino, American Indian, and Native Pacific Islander. Only citizens of the United States or Canada, or scientists who are permanent residents of these countries, may receive one of these awards. For details or to apply, visit [AACR.org/MSA](https://aacr.org/MSA).

Application Deadline: December 13, 2024

AACR Minority and Minority-Serving Institution Faculty (MMSIF) Scholar in Cancer Research Awards

Full-time underrepresented minority faculty and faculty of Minority-Serving Institutions (Historically Black Colleges and Universities [HBCUs], Hispanic-Serving Institutions [HSIs], Tribal Colleges and Universities [TCUs], Predominately Black Institutions [TBCs], and other postsecondary institutions as defined by the U.S. Department of Education) who present a proffered paper at the AACR Annual Meeting are encouraged to apply for this meritorious scholar award.

These awards are intended to increase the scientific knowledge base of minority faculty and faculty at MSIs, to encourage them in their research, and to assist in inspiring their students to pursue careers in cancer research. Only citizens of the United States or Canada, or scientists who are permanent residents of these countries, may receive one of these awards. For details or to submit an application, visit [AACR.org/MSI](https://aacr.org/MSI).

Application Deadline: December 13, 2024

AACR Women in Cancer Research (WICR) Scholar Awards

The AACR Women in Cancer Research (WICR) Scholar Award recognizes WICR members who are scientists-in-training and presenters of meritorious scientific papers at the AACR Annual Meeting. The purpose of this award is to increase the scientific knowledge base of WICR members and to encourage them to pursue careers in cancer research. Eligible candidates encouraged to apply include AACR-WICR members who are graduate students, medical students and residents, clinical fellows, and postdoctoral fellows. For details or to apply, visit [AACR.org/WSA](https://aacr.org/WSA).

Application Deadline: December 6, 2024

AACR Undergraduate Scholar Awards

The AACR is pleased to offer this highly competitive award program, which is intended to inspire young, third-year science students to enter the field of cancer research and to provide a unique educational opportunity for these students in the development of their careers in science. Selected students will receive scholar awards to participate in two consecutive AACR Annual Meetings. To learn more about this award program, visit [AACR.org/UndergradAwards](https://aacr.org/UndergradAwards).

Application Deadline: December 6, 2024



GUIDELINES FOR PREPARATION AND SUBMISSION OF ABSTRACTS

NEW Presentation of E-posters

While all posters accepted for presentation at the AACR Annual Meeting 2025 must be presented in person, poster presenters will also be required to submit a companion e-poster in either video or PDF formats. The e-poster file can be an electronic copy of the print poster, a modified version of the print poster, or a summary of the key findings. E-posters will be available online to registered Annual Meeting attendees through **August 2025**.

Proffered Paper Presentation

All proffered papers that are accepted for poster or oral presentation at the AACR Annual Meeting 2025 must be presented in person. Remote abstract presentations will not be permitted. Presenters who are unable to travel to Chicago to present their proffered paper in person will have the opportunity to designate a coauthor to serve as the presenter. If no coauthors are available to present the paper in person, the abstract must be withdrawn.

Presenters of proffered abstracts that have been selected for oral presentation in a minisymposium must agree to have their presentations recorded and made available to meeting registrants on the virtual meeting platform. Presenters who decline to have their minisymposium presentation recorded will be withdrawn from the session.

As indicated above, presenters of proffered abstracts that have been selected for poster presentation must agree to submit an e-poster by the established deadline and to make that e-poster available to meeting registrants.

Publication of Abstracts in *Cancer Research*

Abstracts accepted for presentation at the AACR Annual Meeting 2025 will be published in an online-only *Proceedings* supplement to the AACR journal *Cancer Research* prior to the meeting in two parts. Part 1 of the online *Proceedings* (regular abstracts) will be published on Friday, April 11, and Part 2 (clinical trials and late-breaking abstracts) will be published on Friday, April 25. Revised *Proceedings* supplements containing the full text of embargoed abstracts as well as any late changes will be published in *Cancer Research* approximately one month after the meeting.

Once the abstracts are published in the journal, additional requests, edits, and withdrawals cannot be processed. Therefore, abstract authors should carefully read their abstracts before submission to ensure that all authors agree with their position on the author list, that all authors and institutions are listed correctly, and that the abstract text is correct. All requests to withdraw or edit abstracts must be received by the following deadlines:

- Regular Abstracts (submitted by the November 26 deadline): **Thursday, February 27, 2025**
- Clinical Trials and Late-Breaking Abstracts (submitted by the January 16 deadline): **Friday, March 14, 2025**

Special Interest Submissions

The AACR encourages submission of abstracts in the following categories, which will be given special consideration for oral presentation at the AACR Annual Meeting 2025:

- **Studies Using Data from AACR Project GENIE®.** AACR Project GENIE® is a publicly accessible cancer registry of real-world clinic-genomic data assembled through data sharing among leading international cancer centers. While there is no specific abstract category for abstracts that describe work using AACR Project GENIE®, you can have your abstract considered by selecting “AACR Project GENIE®” as one of your keywords during the submission process. Learn more about AACR Project GENIE® at AACR.org/GENIE.
- **Studies Featuring Advances in Hematologic Malignancies.** While there is no specific abstract category for abstracts that focus basic, translational or clinical advances in hematologic malignancies, you can have your abstract considered by selecting a hematologic malignancy from the organ site list during the submission process.
- **Studies to be Presented by Patient Advocates.** Patient Advocacy and Engagement is a subcategory included in Science and Health Policy (SHP). Patient advocates may submit work to this category or any other category and simply select “Advocacy” as one of the keywords to be considered for a session featuring patient advocates as presenting authors.

AACR Abstract Submission System

Authors must submit abstracts for presentation at the AACR Annual Meeting 2025 using the AACR Abstract Submission System, which will be available at AACR.org/AACR2025 beginning September 24, 2024. You can create, modify, and submit abstracts until the November 26, 2024, abstract deadline. Complete instructions on the use of the AACR Abstract Submission System will be provided on the website.

The Abstract Submission System has been optimized for the current versions of most browsers. Browsers should be set to enable JavaScript and to accept cookies. Users who need assistance in properly updating and configuring their browsers should contact Abstract Submission Customer Service at 217-398-1792 or aacr@support.ctimeetingtech.com.

Responsibilities of Authors

By submitting an abstract for presentation at the AACR Annual Meeting, abstract authors agree and/or attest to the following:

- **Support for Abstract/Verification of Authorship.** All authors accept individual responsibility for the accuracy and integrity of statements in their abstract, and the submitting author is required to ensure that all authors have confirmed that all statements are an accurate reflection of the presented data, that they have all agreed to the submission of the abstract, and that they agree with being listed as contributors prior to submission. The submitting author is also required to ensure that all relevant contributors to the abstract are included in the list of authors.
- **Sponsorship of Abstracts.** The submitting author must provide the name of an AACR member who has agreed to sponsor the abstract, and the submitting author must attest that the permission of the member sponsor has been secured prior to initiating an abstract submission. See page 28 for Abstract Sponsorship Regulations.
- **Transfer of Copyright.** On behalf of all authors, the submitting author must assign and transfer copyright for the abstract to the AACR.
- **Presentation of Abstracts.** All proffered papers scheduled for presentation at the AACR Annual Meeting 2025 must be presented in person. The submitting author for each abstract must designate a presenter who agrees to register for the meeting and attend the corresponding session to discuss in detail the research presented in the published abstract. If the assigned presenter cannot attend the meeting, the authors are expected to designate a replacement or withdraw the abstract (see page 27).
- **Confirmation of No Prior Publication/Presentation.** Authors who submit an abstract confirm that they have not previously published these data, that they have not previously presented them at a large national annual scientific meeting, and that they are not planning to present or publish them prior to the dates of the AACR Annual Meeting 2025. Preprints (draft research papers posted online before peer review) are not considered to be a prior publication if they are posted online before abstracts are submitted to the AACR Annual Meeting.

Abstracts submitted to the AACR Annual Meeting are confidential and embargoed until the AACR publishes the abstracts in the AACR's online itinerary planner. To view the abstract release schedule and the AACR embargo policy, visit AACR.org/aacr25embargo.

Exceptions: Encore presentations are permitted for clinical trials abstracts that are submitted for the January 16, 2025, clinical trials deadline. During the submission process, authors of encore clinical trials abstracts must provide the date and name of the meeting at which the original trial abstract was presented.

GUIDELINES FOR PREPARATION AND SUBMISSION OF ABSTRACTS *(cont'd)*

Certain laws may require disclosure of clinical trial data through federal and international registries within a specific amount of time following trial completion, or disclosure of clinical trial data by federal and international agencies for regulatory purposes related to drug safety and efficacy. Such disclosures will not be considered a violation of the AACR's Embargo Policy, but the courtesy of advance notice to the AACR by email at exceptions@aacr.org is requested.

Any other exceptions to this policy are at the discretion of AACR leadership.

Content of Abstracts

Each abstract should contain (a) an introductory sentence indicating the purposes of the study; (b) a brief description of pertinent experimental procedures; (c) a summary of the new, unpublished data; and (d) a statement of the conclusions.

Abstracts should be carefully proofread to avoid errors in the published literature. American spelling should be used throughout; for more information regarding American spelling, please refer to *Scientific Style and Format: The CSE Manual for Authors, Editors, and Publishers, Eighth Edition* (Council of Science Editors, 2014).

Abstract Control Number and Abstract Presentation Number

An Abstract Control Number (e.g., 25-A-1234-AACR) will be assigned to each abstract submitted online and will be listed on all email correspondence regarding the abstract. Please refer to the Abstract Control Number in any abstract communications.

The Control Number is for internal reference only. If your abstract is accepted for presentation, it will be assigned a permanent Presentation Number that will be used to identify it in all online and PDF abstract materials. Please place the Presentation Number on your poster and use it in citations of your published abstract. Do not place the Control Number on your poster.

Financial Relationships of Coauthors

Per ACCME regulations, the AACR must collect information on the financial relationships of all meeting presenters and abstract authors. You will be asked to disclose your financial relationships and the financial relationships of each of your coauthors. For more information on financial relationships, visit [AACR.org/CME](https://aacr.org/CME).

Sponsor Permission and Information

Each abstract must be sponsored by an AACR member. You must secure the permission of the sponsor before submitting the abstract. For details, see the "Abstract Sponsorship Regulations" on page 28.

Length of Abstracts

The combined length of the abstract body, title, and tables may not exceed 2,600 characters, not including spaces and the author string. Tables count for 800 characters against the limit. Submission cannot be completed for abstracts that exceed this limit.

Abstract Category, Subcategory, and Subclassification

You must select a category, subcategory, and subclassification for your abstract. See pages 30–34 for details.

Disclosure of Chemical Structures

Chemical compounds are defined as low-molecular-weight (generally <1500 g/mol) organic or inorganic molecules, peptides, or proteins/nucleic acids cocrystallized with low-molecular-weight molecules. If chemical compounds were used to generate the data in the abstract, the corresponding author is encouraged but not required to disclose the complete chemical structures of the compounds used at the time of presentation at the meeting.

Submission Fee

Each abstract submitted must be accompanied by a US\$85 abstract submission fee. The submission fee can be paid by credit card or check. The fee is nonrefundable regardless of the final disposition of the abstract.

Abstract Deadline

The deadline for abstract submissions is **11:59 p.m. U.S. ET, Tuesday, November 26, 2024**. Abstracts submitted after the deadline will not be considered by the Program Committee. **No significant changes may be made to abstracts after the November 26, 2024, deadline.**

NOTE: Submitting an abstract for presentation at the AACR Annual Meeting 2025 does not constitute registration for the meeting. Abstract presenters must register to attend the meeting at [AACR.org/AACR2025](https://aacr.org/AACR2025).

Late-Breaking Abstract Deadline

The deadline for late-breaking abstracts is **11:59 p.m. U.S. ET, Thursday, January 16, 2025**. Abstracts detailing highly significant and timely findings in any area of cancer research that were not available at the time of the regular abstract deadline will be considered for presentation at the Annual Meeting. Only those abstracts that are deemed to be of high scientific priority will be accepted.

Abstract submission fees and sponsorship regulations also apply to late-breaking abstracts.

Clinical Trials Abstract Deadline

The deadline for clinical trials abstracts (including placeholder abstracts) is **11:59 p.m. U.S. ET, Thursday, January 16, 2025**. Final data for placeholder abstracts are due **Tuesday, February 18, 2025**. Abstract submission fees and sponsorship regulations also apply to clinical trials abstracts.

Publication Opportunities

Abstract authors are welcome to submit manuscripts based on their meeting abstracts to AACR journals for consideration for publication. Manuscripts submitted by the following deadlines can be considered for publication simultaneously with the AACR Annual Meeting, provided major revisions are not required:

- **January 27, 2025:** Deadline for manuscripts based on regular abstracts (submitted by November 26, 2024)
- **February 24, 2025:** Deadline for manuscripts based on clinical trial and late-breaking abstracts (submitted by January 16, 2025)

In addition, manuscripts can be considered for publication beyond the simultaneous opportunity. For more information on all publication opportunities in an AACR journal, please read the FAQ (AACRJournals.org/pages/am2025-faq) or contact the AACR Publishing Division at aacrpublications@aacr.org.

Presentation of Proffered Papers at the AACR Annual Meeting

Every proffered abstract that has been accepted for publication in the online *Proceedings* must have a corresponding in-person presentation at the meeting. Specifically, the author listed as the presenter for an accepted proffered paper must attend the corresponding session to discuss in detail the research outlined in the published abstract, according to the specific guidelines of the session. If, due to unforeseen circumstances, the designated presenter is unavailable to attend the session to present the paper, he or she must contact the AACR Scientific Programs Department to designate a coauthor to serve as the presenter. If no abstract authors are available to present the data, the presenter must withdraw the abstract immediately by contacting the AACR Scientific Programs Department at abstractchanges@aacr.org.

Failure to comply with these regulations pertaining to abstract presentation may result in actions including, but not limited to:

- The withdrawal of the abstract from the session
- The removal of the abstract from the online *Proceedings*
- The loss of future sponsorship privileges for the sponsor of the abstract
- The loss of future abstract submission/authorship privileges for the presenter of the abstract

Deadline for Withdrawal of Abstracts

Requests to withdraw regular abstracts will be accepted through **Thursday, February 27, 2025**. Requests to withdraw late-breaking or clinical trials abstracts will be accepted through **Friday, March 14, 2025**. Withdrawal requests must be sent by email to abstractchanges@aacr.org. Withdrawal requests must include the Abstract Control Number and title as well as an explanation of the reason for withdrawal.

Abstract Sponsorship Regulations

Expanded Abstract Sponsorship Privileges for AACR Members

Members must be in good standing in order to sponsor and endorse abstracts for presentation (see below for details). To be in good standing for the November 26 regular abstract deadline, member dues must be paid in full through 2024. To be in good standing for the January 16 late-breaking and clinical trials abstract deadline, member dues must be paid in full through 2025. Associate, Honorary, and Emeritus Members are exempt from the payment of dues; therefore, this regulation does not apply to them.

1. Each abstract submitted for presentation at the AACR Annual Meeting must be sponsored by an Active, Emeritus, Honorary, Affiliate, or Associate AACR Member in good standing (dues paid or eligibility recertified). (Student members are not eligible to sponsor an abstract.)
2. An Active, Emeritus, or Honorary Member may sponsor an unlimited number of abstracts and may use his or her sponsorship privileges in two ways: (a) to sponsor abstracts on which he or she is listed as an author, or (b) to sponsor abstracts submitted by colleagues on which he or she is not listed as an author.
3. An Associate Member in good standing may sponsor one abstract for each submission deadline provided that (a) he or she is the presenter of the abstract, and (b) an Active, Emeritus, or Honorary Member in good standing endorses the work. Active, Emeritus, and Honorary Members may endorse an unlimited number of abstracts.
4. An Affiliate Member in good standing may sponsor one abstract for each submission deadline provided that he or she is the presenter of the abstract. (Affiliate Members are not required to provide an endorser.)
5. Permission to list an AACR member as a sponsor or endorser must be obtained prior to selecting the sponsor/endorser in the Online Abstract Submission System. Individuals listed as sponsors of abstracts will receive a notification of sponsorship selection via email.
6. The sponsor must verify the content, authenticity, and quality of the abstract. Sponsorship of an abstract implies support for the data and the interpretations contained therein.

COMPLIANCE WITH THESE REGULATIONS IS THE RESPONSIBILITY OF THE AUTHORS. Adherence to these rules will be strictly enforced. Violations will result in the rejection of the abstract by the Program Committee.

Membership Application Deadlines for Abstract Sponsorship

Nonmember individuals interested in joining the AACR and sponsoring an abstract for AACR Annual Meeting 2025 must submit an application for membership no later than **October 28, 2024**. Individuals interested in joining the AACR and sponsoring a clinical trial or late-breaking abstract must submit an application for membership no later than **December 16, 2024**. Membership questions may be directed to membership@aacr.org.



MEETING RESOURCES

AACR Annual Meeting Program/Navigation

AACR Annual Meeting attendees can use the following electronic and print resources to plan their itineraries and navigate the meeting:

- **Online Itinerary Planner (tentatively available February 21, 2025).** Search all AACR Annual Meeting presentations (including all proffered abstracts beginning March 25, 2025) by author/speaker, title word, and keyword and create a personal itinerary for the meeting. Personal itineraries created in the Itinerary Planner can be exported as an iCalendar file into attendees' personal Outlook, Google Calendar, or Apple iCal applications. Itineraries can also be imported into the AACR Annual Meeting App (see below).
- **AACR Annual Meeting App (tentatively available April 8, 2025).** Attendees can carry the AACR Annual Meeting wherever they go—with or without a network connection. The AACR Annual Meeting App is available in native versions to serve users of iPhone, iPad, and Android devices and also in a browser-based version for use on most web-enabled smartphones and tablets. Once downloaded, all App content and functionality is stored locally on the user's Apple or Android device and can be accessed without an Internet connection—including the full text of more than 6,500 abstracts. Users can search, browse, and select sessions to create a personal itinerary for the meeting. They can also import their itineraries from the Online Itinerary Planner (see above).
- **Printable PDF Program Guide (available April 18, 2025).** The PDF Program Guide will contain the dates, times, locations, and titles of all AACR Annual Meeting sessions, the names of the chairs and invited speakers in each session, and the titles of all invited presentations. More detailed program information (including the Minisymposium and Poster Session presentations) is available in the online planner and app versions of the program (see above).

Please Note: The Program Guide is no longer available in print format. Program information will be available in the online planner, the meeting app, and in a printable PDF format.

Please Note: Poster and exhibit information is available to attendees through the meeting app, the online planner, and the online exhibitor directory.

AACR Annual Meeting Abstracts/E-posters

The following electronic resources are available to attendees who wish to access the proffered abstracts accepted for presentation at the AACR Annual Meeting:

- **E-Posters.** All posters presented at the AACR Annual Meeting 2025 will also be available in an electronic format. E-posters will be made available to registered Annual Meeting attendees after the start of the meeting and will remain available through August 2025.
- **Online *Proceedings*/Itinerary Planner (abstracts available 4:30 p.m. ET March 25, 2025).** The Online *Proceedings*/Itinerary Planner provides fully searchable access to the full text of all proffered abstracts (see above).
- **AACR Annual Meeting App (tentatively available April 8, 2025).** The full text of all proffered abstracts is stored natively in the AACR Annual Meeting App (see above).
- **PDF *Proceedings* (available April 21, 2025).** The PDF edition of the *Proceedings* of the AACR Annual Meeting contains the full text of all regular proffered abstracts (clinical trials and late-breaking abstracts are not included) and can be downloaded to devices such as the iPad, iPhone, iPod Touch, Sony Reader, and the Barnes & Noble Nook.
- **Online Supplement to *Cancer Research* (available April 11, 2025).** All presented abstracts will be published as an online-only supplement to the AACR journal *Cancer Research*. Regular abstracts will be published on April 11, 2025, and clinical trial and late-breaking abstracts will be published on April 25, 2025.



ABSTRACT CATEGORIES

The AACR Annual Meeting 2025 abstract categories, along with their related subcategories and subclassifications, are listed below. When you use the Abstract Submission System, these options will be available for your selection. Please choose the appropriate category, subcategory, and subclassification that best describe the scientific content of the abstract and the particular scientific audience you wish to reach. This information will be utilized by the members of the Program Committee in their review of abstracts and planning of sessions at the AACR Annual Meeting 2025. Please note that these abstract categories may or may not be used as AACR Annual Meeting session titles. Before making your selection, please scan the entire list for the most appropriate abstract category, subcategory, and subclassification. The regular abstract submission deadline is **November 26, 2024 (11:59 p.m. ET)** and the late-breaking and clinical trials abstract submission deadline is **January 16, 2025 (11:59 p.m. ET)**.

The abstract categories are listed in alphabetical order.

BCS Bioinformatics, Computational Biology, Systems Biology, and Convergent Science

BCS01 Bioinformatics, Computational Biology, and Systems Biology (See also MCB08: Genomics)

Analytic pipeline optimization
Application of bioinformatics to cancer biology
Artificial intelligence and machine/deep learning
Database resources
Integrative computational approaches
Molecular and whole cell modeling
New algorithms
New software tools for data analysis
Sequence analysis
Statistical methods
Systems engineering
Other

BCS02 Convergent Science

Digital pathology
Early detection and imaging
Integration of clinical and research data
Integrative cancer science
Liquid biopsy: Multi-analyte and multi-omic
Mathematical modeling
Network biology and precision medicine
Physical sciences in oncology
Other

CH Chemistry

CH01 Drug Discovery, Design, and Delivery

Basic and applied nanotechnology and therapeutics
Chemoinformatics, in silico screening, and computational methods
Drug delivery
Drug design
High-throughput screening (assays and libraries)
Lead identification and optimization
Natural products
Synthesis, metabolism, and disposition
Targeted protein degradation
Other

CH02 Proteomics and Mass Spectrometry

Biological mass spectrometry and systems biology
Proteomics and biomarker discovery
Proteomics and signaling networks
Other

CH03 Structural and Chemical Biology

Chemical genetics and genomics
Small molecule, protein, and nucleic acid interactions
Target identification, small molecule probes, and libraries
X-ray and NMR structures
Other

ABSTRACT CATEGORIES *(cont'd)*

Regular Abstract Submission Deadline:

November 26, 2024 (11:59 p.m. ET)

Late-Breaking and Clinical Trials Abstract

Submission Deadline: **January 16, 2025 (11:59 p.m. ET)**

CL Clinical Research: Solid Tumors and Hematologic Malignancies

(not including clinical trials, see also the Clinical Trials [CT] categories)

CL01 Biomarkers and Early Detection

Biomarkers predictive of therapeutic benefit
Diagnostic biomarkers
Early detection biomarkers
Liquid biopsies: Circulating nucleic acids
Liquid biopsies: Circulating tumor cells
Metastasis biomarkers
Prognostic biomarkers
Spatial proteomics and transcriptomics
Other

CL02 Biostatistics in Clinical Trials

Design and analysis of clinical trials
New study designs: Theory, methodology, and modeling
Statistical modeling for cancer studies
Other

CL03 Clinical Endocrinology

(See also EN01: Molecular, Preclinical, and Clinical Endocrinology)

Endocrine-related tumors
Hormone receptors and diagnosis/prognosis
Hormone signaling and inhibitors
Hormone synthesis, metabolism, and inhibitors
Neuroendocrine tumors and other endocrine factors
Nuclear receptors: Structure and function
Preclinical studies of endocrine-related cancers
Receptors and signal transduction
Steroid hormone receptors
Other

CL04 Clinical Research in Geriatric Oncology

Aging, immunity, and cancer
Other

CL05 Clinical Research and Cancer Disparities in Racial and Ethnic Minorities and Other Underserved Populations

Biobanking/biospecimen collection
Clinical trial design
Community-engaged research/community-based participatory research
Community outreach and patient accrual
Other

CL06 Immuno-oncology

(See also ET01: Biological Therapeutic Agents; IM01: Preclinical Immunotherapy)

Adoptive cell therapy
Combination immunotherapies
Immune checkpoints
Immune mechanisms invoked by other therapies including chemotherapy
Immune mechanisms invoked by radiation therapy
Immune monitoring/clinical correlates
Immune response to therapies
Immunomodulatory agents and interventions
Inflammation, immunity, and cancer
Modifiers of the tumor microenvironment
Therapeutic antibodies, including engineered antibodies
Vaccines (oncolytic and prophylactic)
Other

CL07 Pediatric Cancer – Clinical Investigations

(See also CT07: Phase I, II, or III Clinical Trials in Pediatric Cancer; TB05: Pediatric Cancer – Basic Science)

Adolescent and young adult oncology
Childhood cancer drug development
Immunotherapeutic approaches to pediatric cancer
Pediatric cancer predisposition and surveillance
Survivorship, late effects, and second cancers
Therapeutic dosing, resistance, and combination therapy application
Translational pediatric cancer research
Other

CL08 Precision Oncology

Combination therapy
Molecular targeted therapy
Other

CL09 Radiation Oncology

(See TB06: Radiation Science; ET08: Preclinical Radiotherapeutics)
Clinical radiotherapeutic studies
Interventional radiology
Modification of radiosensitivity
Radiation therapy combinations
Radiation-induced late effects/second cancers
Radiation-induced resistance
Other

CL10 Real-World Data and Real-World Evidence

Analyses using clinico-genomic databases
Clinical informatics and data science
Retrospective clinical analyses
Other

CL11 Surgical Oncology (including Prophylactic Surgery)

Surgical intervention in early-stage disease
Surgical intervention in late-stage disease
Surgical outcomes after neoadjuvant therapy
Surgical palliation for local control
Surgical prophylaxis for high risk populations

CL12 Survivorship Research and Supportive Care

Biology of cell and tissue damage
Cardio-oncology
Comparative effectiveness research and cost-effective studies
Late effects of cancer and its treatment, including second cancers
Psycho-oncology
Supportive care, palliation, and pain management
Translational survivorship research
Other

CL13 Translational Research – Molecular Biology in Clinical Oncology

(See also TB02: In Vivo Imaging and Anatomical and Molecular Pathology)

Clinical imaging
Cytogenetics and clinical molecular genetics
Epigenetic therapy
Functional and molecular imaging
Molecular classification of tumors
Radiomics
Theranostics
Tumor staging: Correlation of clinical and molecular markers
Other

CT Clinical Trials: Solid Tumors and Hematologic Malignancies

CT01 Clinical Trials in Progress

Phase I clinical trials in progress
Phase II clinical trials in progress
Phase III clinical trials in progress

CT02 Phase 0 Clinical Trials

Phase 0 clinical trials

CT03 First-in-Human Phase I Clinical Trials

First-in-human phase I clinical trials

CT04 Phase I Adult Clinical Trials

(See also ET07: Pharmacology, Pharmacogenetics, and Pharmacogenomics)

Phase I adult clinical trials

CT05 Phase II Adult Clinical Trials

Phase II adult clinical trials

CT06 Phase III Adult Clinical Trials

Phase III adult clinical trials

CT07 Phase I, II, or III Clinical Trials in Pediatric Cancer

(See also CL07: Pediatric Cancer Clinical Investigations; TB05: Pediatric Cancer Basic Science)

Phase I clinical trials in pediatric cancer
Phase II clinical trials in pediatric cancer
Phase III clinical trials in pediatric cancer

ABSTRACT CATEGORIES *(cont'd)*

Regular Abstract Submission Deadline:

November 26, 2024 (11:59 p.m. ET)

Late-Breaking and Clinical Trials Abstract

Submission Deadline: **January 16, 2025 (11:59 p.m. ET)**

EN Endocrinology

EN01 Molecular, Preclinical, and Clinical Endocrinology (See also

CL03: Clinical Endocrinology)

Endocrine-related tumors

Growth factors, receptors, and signal transduction

Hormone receptors and diagnosis/prognosis

Hormone signaling and inhibitors

Hormone synthesis, metabolism, and inhibitors

Neuroendocrine tumors and other endocrine factors

Nuclear receptors: Structure and function

Preclinical studies of endocrine-related cancers

Receptors and signal transduction

Steroid hormone receptors

Other

ET Experimental and Molecular Therapeutics

ET01 Biological Therapeutic Agents (See also CL06:

Immuno-oncology; IM01: Preclinical Immunotherapy)

Antireceptors

Apoptosis: Therapeutic manipulation

Growth factor receptors and other surface antigens as targets for therapy

Oncogenes, tumor suppressor genes, and gene products as targets for therapy

Protein kinases and phosphatases as targets for therapy

Role of microenvironment in therapeutic response

Other

ET02 Drug Discovery

Antibody technologies

Biochemical modulators of the therapeutic index

Combination chemotherapies

Differentiation therapy

Drug repurposing

New targets

Novel assay technology

Novel drug delivery systems

Targeting the tumor microenvironment in drug development

Other

ET03 Drug Resistance

Drug resistance in molecular targeted therapies

Drug transport and metabolism

Novel mechanisms

Regulation of gene expression in drug resistance

Reversal of drug resistance

Other

ET04 Gene and Vector-Based Therapy

Antisense molecules

Gene therapy and radiation studies

Immune modulators

Vector systems and targeting strategies

Other

ET05 Mechanisms of Drug Action

Cell cycle mechanisms of anticancer drug action

Cellular responses to anticancer drugs

Role of the microenvironment in therapeutic response

Other

ET06 Molecular Targets

Cell death pathways and treatment

DNA damage response and modulation of DNA repair

Identification of molecular targets

Molecular classification of tumors for diagnostics, prognostics, and therapeutic outcomes

New nonclinical models for targets

Other

ET07 Pharmacology, Pharmacogenetics, and Pharmacogenomics (See also CT04: Phase I Adult Clinical Trials)

Cellular pharmacology

Molecular pharmacology

Pharmacogenetics and therapeutic response

Pharmacogenomics

Pharmacokinetics and pharmacodynamics

Preclinical toxicology

Other

ET08 Preclinical

Radiotherapeutics (See also

TB06: Radiation Science;

CL09: Radiation Oncology)

Interactions of new agents with radiation

Modification of radiosensitivity

Molecular targets of radiation response

Normal tissue/cellular stress responses to radiation

Radioprotectors and radiosensitizers

Radiotherapeutic combinations

Theranostics/radiotheranostics

Other

ET09 Small Molecule Therapeutic Agents

DNA-reactive agents

Epigenetic targets

HDAC and methyltransferase inhibitors

Molecular glues

Novel antitumor agents

Novel targets and pathways

PI3K/AKT inhibitors

Platinum complexes

Proteasome inhibitors

Targeted protein degraders

Topoisomerases

Tubulin agents

Tyrosine kinase and phosphatase inhibitors

Other

IM Immunology

IM01 Preclinical Immunotherapy (See also CL06: Immuno-

oncology; ET01: Biological Therapeutic Agents)

Adoptive cell therapy

Combination immunotherapies

Immune checkpoints

Immune mechanisms invoked by other therapies including chemotherapy

Immune mechanisms invoked by radiation therapy

Immune monitoring/clinical correlates

Immune response to therapies

Immunomodulatory agents and interventions

Inflammation, immunity, and cancer

Modifiers of the tumor microenvironment

Therapeutic antibodies, including engineered antibodies

Vaccines (oncolytic and prophylactic)

Other

IM02 Tumor Immunobiology

Adaptive immunity in tumors

Epigenetic regulation of tumor immunity

Inflammation and cancer: Metastasis

Inflammation and cancer: Tumor initiation and progression

Innate immunity to tumors

Microbiome, inflammation, and cancer

Novel animal models

Oncogenic pathway-mediated regulation of inflammation and tumor immunity

Tumor antigenicity/processing and presentation

Tumor-induced immune suppression: Extrinsic factors

Tumor-induced immune suppression: Intrinsic factors

Other

IM03 Virology and Cancer

Molecular mechanisms of viral oncogenesis

Viruses and cancer (e.g. HPV, EBV, HIV)

MCB Molecular/Cellular Biology and Genetics

MCB01 Cell Cycle

CDKs and CDK inhibitors

Cell cycle checkpoints

Control of cell cycle progression

Telomeres and telomerase

Other

MCB02 Cell Death

Apoptosis

Autophagy

Bcl-2 family proteins

Caspases

Effects on mitochondria/mitochondrial function

Inhibitor of apoptosis (IAP) family proteins

Necrosis and necroptosis

Transcriptional control of apoptosis

Other

ABSTRACT CATEGORIES *(cont'd)*

Regular Abstract Submission Deadline:

November 26, 2024 (11:59 p.m. ET)

Late-Breaking and Clinical Trials Abstract

Submission Deadline: **January 16, 2025 (11:59 p.m. ET)**

MCB03 Cell Growth Signaling Pathways

Cell signaling
Cell-cell interactions
Growth factors
GTPases, their regulators, and effectors
Kinases and phosphatases
Receptors
Tumor-stromal cell interactions
Ubiquitin and ubiquitin-like proteins
Other

MCB04 Cellular Stress Responses

Hypoxia
Oxidative stress
Premature cellular aging
Senescence
Unfolded protein response
Other

MCB05 DNA Damage Response and Modulation of DNA Repair

Chromosomal structural alterations/translocations
Genomic instability
Homologous recombination
Mechanisms of genomic alterations
Radiation-induced DNA damage
Other

MCB06 Epigenetics and Epigenomics

Chromatin structure and function
DNA methylation
Epigenetic changes as molecular markers of cancer
Epigenetics and cellular aging
Epigenomics
Gene silencing
Histone modification
Other

MCB07 Gene Regulation and Transcription Factors

Chromatin structure and function
Gene expression
Mechanisms of transcription
Oncogenic transcription factors
Posttranscriptional and translational control
Promoters and enhancers of transcription
Protein-protein interactions in transcription factor function
Regulation of transcription factor function
Transcriptional control of cell differentiation
Other

MCB08 Genomics (See also BCS01: Bioinformatics, Computational Biology, and Systems Biology)

Functional genomics
Genomic profiling of tumors
High-throughput sequencing
Large-scale approaches to cancer gene discovery
Microarrays
Other

MCB09 Metabolism and Cancer

Metabolic pathways
Metabolic reprogramming
Metabolomics
Mitochondrial function
Signaling pathways that regulate metabolism
Other

MCB10 microRNAs and Other Noncoding RNAs

Epigenetic control of miRNA expression
miRNA profiling in cancer
miRNA regulation of cancer biology
miRNA-based diagnostics
miRNA-based therapeutics
miRNAs as tumor suppressors/oncogenes
Noncoding RNAs
Other

MCB11 Oncogenes and Tumor Suppressor Genes

Cytoplasmic signal transducers
Genotype/phenotype correlations
Nuclear oncoproteins and tumor suppressor genes
Oncogene growth factors and their receptors
Tumor suppressor genes
Other

PS Population Sciences (Including Diversity, Equity, and Inclusion)

PS01 Population Sciences

Aging as a risk factor
Biomarkers of endogenous or exogenous exposures, early detection, and biologic effects
Biomarkers of prognosis
Cancer disparities research
Diet, alcohol, tobacco use, and other lifestyle risk factors
Environmental and occupational risk factors
Epidemiology, covering cancer incidence, mortality, clusters, and trends
Familial and hereditary cancers
Functional studies of genetic variants
Gene-gene and gene-environment interactions
Genome-wide association studies (GWAS)/post-GWAS
Health services and comparative effectiveness research
Implementation science (including global health)
Infection and immune factors
Next-generation sequencing in epidemiology studies (whole genome, exome, targeted, or fine-mapping)
Pathway and candidate gene studies of risk or prognosis
Pharmacoepidemiology
Preneoplastic and tumor markers
Primary and secondary intervention studies
Psychosocial and behavioral epidemiology
Risk prediction models for incidence, prognosis, and/or mortality
Screening and early detection
Statistical and epidemiological methodology
Survivorship research
Other

PR Prevention, Early Detection, and Interception (Including Diversity, Equity, and Inclusion)

PR01 Clinical Prevention, Early Detection, and Interception

Application of molecular pathology in clinical prevention
Biomarkers and intervention studies
Cancer disparities research
Cancer surveillance and screening studies
Chemoprevention clinical trials
Genomics and proteomics in cancer risk and response assessment
Infections and virus-related cancers
Microbiome and prevention
Obesity, diet, physical activity, and energy balance
Prevention and treatment of premalignant lesions (intraepithelial neoplasia)
Prevention of second cancers
Quality of life/late effects/survivorship
Recruitment of racial and ethnic minorities and other underserved populations in clinical prevention trials
Screening and early detection
Other

PR02 Preclinical Prevention, Early Detection, and Interception

Animal models in prevention
Behavioral sciences and prevention
Biological and biochemical mechanisms in prevention
Biomarkers and intervention studies
Cancer communication and decision making
Cellular models
Chemoprevention studies
Diet, nutrition, and cancer
Microbiome and prevention
Molecular markers in prevention research
Molecular targets for prevention
New agent development
Screening and early detection
Other

ABSTRACT CATEGORIES *(cont'd)*

Regular Abstract Submission Deadline:

November 26, 2024 (11:59 p.m. ET)

Late-Breaking and Clinical Trials Abstract

Submission Deadline: **January 16, 2025 (11:59 p.m. ET)**

RSP Regulatory Science and Policy

RSP01 Regulatory Science and Policy

Biosimilars and generics
Clinical trial design and accrual
Combination therapies and codevelopment of investigational agents and diagnostics
Data science and informatics
International regulatory issues
Novel endpoints and biomarkers
Real-world evidence and retrospective analyses
Tobacco and e-cigarette regulation
Other

SHP Science and Health Policy

SHP01 Science and Health Policy

Cancer disparities
Cancer survivorship
Implementation science (including global health)
Patient advocacy and engagement
Science communication to the public
Value and cost issues in cancer care
Other

SHP02 Patient Advocacy and Engagement

Patient advocacy and engagement
Other

TB Tumor Biology

TB01 Angiogenesis

Angiogenesis and angiogenesis inhibitors
Host-tumor interactions
Molecular mechanisms of angiogenesis
Novel pro- and antiangiogenic factors
Tumor microcirculation and the microenvironment
Other

TB02 In Vivo Imaging and Anatomical and Molecular Pathology (See also CL13: Translational Research: Molecular Biology in Clinical Oncology)

Advanced nanotechnology and imaging
Application of imaging technology to the clinic
Imaging in animal models
Imaging of molecular and cellular events in the tumor microenvironment
Imaging of molecular and cellular events in tumors and tumor cells
Imaging the immune response
Imaging tumor metabolism
New targets for imaging
Other

TB03 Metastasis

Actin cytoskeleton
Biomarkers of metastasis
Epithelial/mesenchymal transition (EMT and MET)
Expression profiling of tumor progression and metastasis
Genes that regulate migration and invasion
Imaging of tumor progression and metastasis
Invasion and migration
Metastasis-promoting genes
Metastasis suppressor genes
Premetastatic niche
Therapeutic metastasis prevention
Other

TB04 Nonclinical Models of Cancer

3-D and tissue recombinant models
Developmental phenotypes of cancer genes
Human-in-mouse models of human cancer
Model organisms in drug discovery
Mouse models of human cancer
Noninvasive imaging in animal models
Organoids
Other animal and cell models of cancer
Patient-derived xenograft models
Zebrafish models of cancer
Other

TB05 Pediatric Cancer - Basic Science (See also CL07: Pediatric Cancer - Clinical Investigations; CT07: Phase I, II, or III Clinical Trials in Pediatric Cancer)

Developmental origins and drivers of pediatric cancer
Pediatric cancer genomics and epigenomics
Pediatric cancer models
Pediatric cancer tumor microenvironment and tumor heterogeneity
Other

TB06 Radiation Science

(See also CL09: Radiation Oncology; ET08: Preclinical Radiotherapeutics)
Modulators of radiation response
Photobiology/photodynamic therapy
Radiation dose fractionation
Radiation-activated signaling pathways
Radiation-induced gene expression
Radiation-induced resistance
Radiobiology research
Radioprotectors and radiosensitizers
Other

TB07 Stem Cell Biology

Adult stem cells
Cancer stem cells
Developmental pathways in cancer
Embryonic stem cells
Stem cell markers
Stem cells and regenerative medicine in oncology
Other

TB08 Tumor Adhesion

Cell adhesion and extracellular matrix
Drug resistance
Other

TB09 Tumor Evolution and Heterogeneity

Causes and consequences of tumor heterogeneity
Clonal evolution
Methods to measure tumor evolution and heterogeneity
Other

TB10 Tumor Microenvironment

Aging tumor microenvironment
Chemokines in the microenvironment
Drug targets in the microenvironment
Exosomes and other vesicles
Extracellular matrix and integrins
Gene expression in the microenvironment
Immune cells in the tumor microenvironment
Inflammation as a regulator of tumor growth
Microbiome
Organ-specific microenvironments
Proteases and inhibitors in the microenvironment
Spatial heterogeneity in the tumor microenvironment
Tumor dormancy
Tumor/stromal interactions
Tumor-immune system interactions
Other



AACR MEMBERSHIP OPPORTUNITIES

AACR Membership: The Essential Association for You

With over 58,000 members in 141 countries and territories around the world and over 32% of members living outside the United States, the AACR is a dynamic and vibrant organization that offers its members opportunities to participate more fully in the global initiative to eliminate cancer. AACR membership is available to both senior and early-career investigators who conduct cancer research and related biomedical science, as well as to those health care professionals, research administrators, cancer survivors and advocates, students, and others who share the AACR's vision and support our mission to prevent and cure cancer.

AACR membership promotes the professional growth of those in training, facilitates collaborations for established scientists, and supports everyone working in cancer research. Special rates are available to members located in countries building cancer research capacities. Visit AACR.org/Membership for more information.

Membership Application Deadlines for Abstract Sponsorship

AACR members have the exclusive benefit of being able to sponsor and endorse abstracts for presentation at the AACR Annual Meeting. Members must be in good standing (dues paid or eligibility recertified) in order to take advantage of this member privilege. (Refer to page 28 for full details and instructions on sponsoring an abstract.)

Nonmember individuals interested in joining the AACR and sponsoring an abstract for the AACR Annual Meeting must submit an application for membership no later than **October 28, 2024**. Individuals interested in joining the AACR and sponsoring a clinical trial or late-breaking abstract must submit an application for membership no later than **December 16, 2024**.

AACR members play an integral role in achieving our mission and in advancing cancer research. We encourage our Active, Emeritus, and Honorary members to nominate colleagues, students, nurses, technicians, and others working in support of cancer research to join the AACR today!

Abstract Sponsorship

Membership Application Deadlines

October 28, 2024

December 16, 2024

Abstract Submission Deadlines

November 26, 2024

January 16, 2025
(Late-Breaking and Clinical Trials)

Scholar Awards

Award

Scholar-in-Training

Global Scholar-in-Training

Women in Cancer Research

Undergraduate Scholar

Minority Scholar

Minority and Minority-Serving
Institution Faculty

Application Deadline

November 26, 2024

November 26, 2024

December 6, 2024

December 6, 2024

December 13, 2024

December 13, 2024

Undergraduate Student Caucus and Poster Competition Deadlines

Abstract Submission Deadline (Presenting Students) March 14, 2025

Registration Deadline (Nonpresenting Students) March 31, 2025

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

Abstract Submission Deadline March 14, 2025
(Presenting Students)

Registration Deadline March 31, 2025
(Nonpresenting Students)

To learn more visit **AACR.org/ScienceEducation** or send an email to ScienceEducation@aacr.org.

AACR Membership Categories

Active Membership is open to investigators who have established a record of scholarly activity resulting in original peer-reviewed articles in publications relevant to cancer research and biomedical science.

Affiliate Membership is open to qualified individuals who are health professionals working in support of cancer research and biomedical science; survivors and advocates who are members of organizations whose mission includes the advancement of cancer research; educators; or other professionals who are interested in and/or make substantial contributions to the cancer field.

Associate Membership is open to graduate students, medical students and residents, and clinical and postdoctoral fellows who are enrolled in education or training programs that could lead to careers in cancer research and the related sciences. Annual dues are not required. (Important reminder: Associate members are required to recertify their eligibility in order to remain on the member rolls. Please log into **AACR.org/myAACR** to retain your member exclusive benefits!)

Student Membership is open to persons who have an interest in cancer and the related biomedical sciences and who are enrolled in a program leading to a high school diploma or a bachelor's degree. Annual dues are not required.

Emeritus Membership is open to existing Active Members who have reached the age of 70 years, who are disabled, or who are retired.

Honorary Membership is open to distinguished individuals who have made extraordinary contributions to the advancement of cancer research either through outstanding personal scientific activity or through exceptional leadership in cancer research. (Candidates for Honorary Membership are invited through a special selection process.)

Sustaining Membership is open to organizations in recognition of annual payment of dues and other substantial contributions in support of the mission and activities of the AACR. Annual dues are determined by the Sustaining Member level.

AACR Member Exclusive Benefits

Early Access to AACR Annual Meeting Housing Reservations

Tuesday, September 17, 2024 (9:00 a.m. U.S. ET) through Monday, September 23, 2024 (11:59 p.m. U.S. ET)

As a member exclusive benefit, AACR members in good standing (dues paid through December 31, 2024) are eligible to reserve hotel accommodations for the AACR Annual Meeting 2025 before reservations open to all attendees. Members may log into **AACR.org/myAACR** to check dues status and make a payment using the secure AACR site. Nonmembers interested in joining the AACR and enjoying this exclusive member benefit will need to submit a membership application by September 10, 2024.

Hotel Reservations

CMR (Convention Management Resources) is the official hotel management company for the AACR Annual Meeting.

One hotel reservation is allowed per member effective September 17, 2024. Housing reservations open to the general public on September 23, 2024 (see pages 40-41). Members will need to provide the following information in order to secure a reservation:

- AACR member ID number
- Last name (as it appears in the AACR Membership records)

Members are encouraged to take advantage of early access to housing reservations before housing is made available to all attendees. Please contact the Membership and Professional Development Department at membership@aacr.org or 215-440-9300 and a membership representative will gladly assist with any questions. Not yet a member? Apply for membership at **AACR.org/myAACR** and join us in the global conquest of cancer.

Membership Hub

The Membership Hub is a home base for AACR members and individuals interested in becoming members. Visit the Hub to 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.

Membership Center

The AACR Membership Center provides a place where members can obtain information regarding their membership, join Association groups within the AACR, update contact information, pay annual dues, transfer to other categories of membership, and become familiar with new membership services.

Membership Booth at Registration

The Membership Booth in the Registration Area is a service center for AACR members to register, pay their dues, and learn more about membership during the meeting. Nonmembers are encouraged to take advantage of the special offer to join the AACR prior to registering for the meeting. Visit the Membership Booth at Registration for more details.

Member Appreciation Events

New Member Networking Mixer

The AACR is 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, forge new relationships, and learn more about exclusive member benefits and how to get involved in the association.

Celebrating AACR Long-Term Members: Member Appreciation Breakfast

The AACR is pleased to recognize those scientists who have been members of the association for 25 years or 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. Long-term members are invited to join the AACR leadership and colleagues to reconnect and share memories while enjoying breakfast.

Meet the 2025-2026 AACR President

The Meet the 2025-2026 AACR President event provides an opportunity for AACR members and Annual Meeting attendees to meet informally with the 2025-2026 AACR President, Dr. Lillian L. Siu.

AACR 50-Year Members and Honorary Members

Scientists who have reached the milestone of 50 years of AACR membership are recognized during the AACR Annual Meeting for their dedication to cancer research and continued support of AACR activities and programs. These distinguished members will be formally honored at the Annual Business Meeting of Members and celebrated throughout the meeting.

Contact the AACR Membership and Professional Development Department with any questions at 215-440-9300 or membership@aacr.org.

Supporting Diversity, Equity, and Inclusion

The AACR strives to support the professional development and career advancement of underrepresented minority and women scientists in cancer research. Through the efforts of AACR-Minorities in Cancer Research and AACR-Women in Cancer Research, the AACR is working to increase the number, participation, visibility, and recognition of these investigators.

AACR-Minorities in Cancer Research (MICR): 25th Anniversary

MICR is a membership group within the AACR committed to preventing and curing cancer and eradicating cancer health disparities while meeting the professional needs and advancing the careers of minority scientists. It is led by the MICR Council, which is the advisory body to the AACR leadership on issues of concern to minority investigators and is also responsible for spearheading initiatives and organizing activities of MICR through its committees.

MICR will present several exciting and engaging activities during the AACR Annual Meeting, including:

- **Special Program Celebrating the 25th Anniversary of MICR.** The AACR-MICR Council works to create more opportunities, programs, and resources to foster the overall interest and professional development of minority investigators. We are delighted to expand our efforts to increase diversity, health equity, recognition, and professional development support during this coming year as we celebrate MICR's 25th anniversary!
- **MICR Town Hall Meeting.** This session provides an opportunity for all attendees who support MICR to join the MICR Council in an informal discussion about current topics that have an impact on the cancer community and underrepresented minorities.
- **MICR Scientific Symposium.** This session informs the cancer research community about cancer issues related to race and ethnicity and provides a platform for minority scientists to present their work.

AACR MEMBERSHIP OPPORTUNITIES *(cont'd)*

- **MICR Career Development Forum.** This session provides useful tools and information to support the professional development of minority cancer researchers.
- **MICR Scholar Award Programs.** Focuses on underrepresented minority early-career researchers and faculty, as well as faculty at Minority-Serving Institutions.
- **MICR Meet and Greet.** All AACR Annual Meeting attendees are invited to informally network with the MICR Council, Committee Members, and Scholar Awardees for one-on-one or group discussions.
- **MICR Networking and Resource Center.** The MICR Networking and Resource Center provides meeting attendees with a comfortable environment to network one-on-one and in small groups while learning about AACR and MICR programs as well as MICR membership and committee service opportunities.
- **MICR Distinguished Lectureship Series.** The AACR-MICR Distinguished Lectureship Series currently takes place twice a year in conjunction with the AACR Annual Meeting and with the annual AACR Conference on the Science of Cancer Health Disparities. The intention of this series is to invite leading researchers to provide scientific presentations to faculty and students of Minority-Serving Institutions (MSIs) so as to bring the latest science directly to faculty and students on their campuses in the host city of the conference.

All Annual Meeting attendees and MICR members are invited to learn more about MICR programs, committees, and other programs of interest by visiting [AACR.org/MICR](https://aacr.org/MICR) or emailing micr@aacr.org. Nonmembers are welcome to visit and join.

AACR-Women in Cancer Research (WICR)

AACR-Women in Cancer Research (WICR) is a membership group within the AACR committed to recognizing women's scientific achievements and fostering their career development and advancement in cancer research. It is led by the WICR Council, the advisory body to the AACR leadership on issues of concern to women investigators, which is also responsible for organizing the activities of WICR through its committees.

WICR activities taking place during the Annual Meeting include:

- **WICR Career Development Forum.** This session provides essential information and tools to support the career development and advancement of women scientists in the cancer field.
- **Professional Development Workshop: Women and Power—Advancing and Securing Your Career in Science.** Sponsored by The Victoria's Secret Global Fund for Women's Cancers, in partnership with Pelotonia and AACR-Women in Cancer Research.
- **WICR Scholar Award Program.** The WICR Scholar Award supports the attendance of early-career investigators at the AACR Annual Meeting. These awards are given annually to members of Women in Cancer Research who are scientists-in-training and presenters of meritorious scientific papers at this AACR Annual Meeting.
- **WICR Meet and Greet.** All AACR Annual Meeting attendees are invited to informally network with the WICR Council, Committee Members, and Scholar Awardees for one-on-one or group discussions.
- **WICR Networking and Resource Center.** The WICR Networking and Resource Center provides meeting attendees with a comfortable environment to network one-on-one and in small groups while learning about AACR and WICR programs as well as WICR membership and committee service opportunities.

All AACR Annual Meeting attendees and WICR members are invited to learn more about WICR programs, committees, and other programs of interest by visiting [AACR.org/WICR](https://aacr.org/WICR) or emailing wicr@aacr.org. Nonmembers are welcome to visit and join.

Supporting AACR Associate Members (Early-Career Researchers/Scientists)

With over 31,000 Associate members, the AACR supports the education, training, and professional development of early-career researchers/scientists who are graduate students, medical students and residents, and clinical and postdoctoral fellows, in the cancer field.

The AACR Associate Member Council (AMC) are Associate members of the AACR who are elected to serve as an advisory group to the AACR leadership and to present the needs and concerns of early-career researchers/scientists. The AMC works to support the AACR's mission to prevent and cure cancer by promoting the professional development of early-career researchers/scientists throughout the world and encouraging Associate member recruitment, retention, and engagement.

Opportunities for Associate Members During the AACR Annual Meeting 2025

Opportunities for Associate members taking place during the AACR Annual Meeting 2025 include:

- **Associate Member Meet and Greet.** Associate members can meet and network with other early-career attendees and Council members.
- **Early-Career Associate Members 5K Team.** Join the Early-Career Associate Members team and participate in the AACR Runners for Research 5K Run/Walk, build relationships among colleagues, and raise awareness and funds to support cancer research.

- **Recognition and Scholar Awards.** The AACR offers several scholar awards to meritorious early-career researchers residing anywhere in the world, and also to members of minority groups residing in the United States and Canada that have been traditionally underrepresented in cancer research and biomedical science, to assist them in attending the AACR Annual Meeting. Please refer to pages 22-23.

Science Education for the Next Generation of Cancer Researchers

(Opportunities for high school and undergraduate students)

AACR Undergraduate Scholar Awards

In its 28th year, this award program is highly competitive and intended to inspire young, third-year science students pursuing a bachelor's degree to enter the field of cancer research and provide a unique educational opportunity for these students in the development of their careers in science. To learn more about this award program, visit [AACR.org/UndergradAwards](https://aacr.org/UndergradAwards).

Application Deadline: December 6, 2024

20th Annual Undergraduate Student Caucus and Poster Competition

With more than 250 undergraduate student participants every year, the AACR Undergraduate Student Caucus and Poster Competition continues to be the premier event for undergraduate students attending the AACR Annual Meeting. Now in its 20th year, this program provides undergraduate and postbaccalaureate students with the opportunity to learn more about current research in the cancer field, hear from investigators about educational pathways and career development, explore career options in the cancer field, and compete for the Margaret Foti Foundation Undergraduate Prizes for Cancer Research while presenting research. Undergraduates at all levels are welcome to participate in this highly anticipated program at no cost. To learn more about this exciting opportunity, please visit [AACR.org/ScienceEducation](https://aacr.org/ScienceEducation) or send an email to scienceeducation@aacr.org.

Abstract Submission Deadline: March 14, 2025
(Presenting Students)

Registration Deadline: March 31, 2025
(Nonpresenting Students)

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

The Special Program for High School Students promotes interactions between senior cancer scientists and promising students in order to facilitate the contributions of these students to scientific research and the conquest of cancer. Don't miss this wonderful opportunity to learn about cancer research and careers in biomedical research and medicine. The session is free, but space is limited. Learn more at [AACR.org/HighSchoolProgram](https://aacr.org/HighSchoolProgram).

Abstract Submission Deadline: March 14, 2025
(Presenting Students)

Registration Deadline: March 31, 2025
(Nonpresenting Students)

The AACR has over
58,000 members in
141 countries and
territories around
the world.



HOUSING

Hotel Reservations

CMR (Convention Management Resources) is the official hotel management company for the AACR Annual Meeting 2025.

Hotel reservations for the AACR Annual Meeting 2025 will open at 9:00 a.m. U.S. ET on Tuesday, September 17, 2024, for all AACR members in good standing. Housing for nonmember attendees will open at 9:00 a.m. on Tuesday, September 24, 2024. The deadline for making hotel reservations is Friday, March 14, 2025. After the deadline, registrants may be required to make their own housing arrangements.

You may reserve your hotel room in one of the following ways:

Online: Visit the AACR Annual Meeting website at **AACR.org/AACR2025** to reserve your hotel room online. Please note that you must supply a credit card in order to reserve a room online. You will find descriptions, amenity information, and photographs for each AACR official hotel. Additionally, a map showing the location of all hotels and the McCormick Place Convention Center is available on the AACR Housing website. Visit the AACR Housing website to get up-to-the-minute availability and receive immediate confirmation of your hotel reservation.

Phone: AACR Housing agents will be available to accept reservations as well as provide information on the official AACR hotels Monday through Friday from 9:00 a.m. to 9:00 p.m. U.S. ET. You will be required to supply a credit card if you reserve your hotel room by phone. Once your reservation is complete, you will receive immediate confirmation by email. AACR Housing can be reached toll-free in the U.S. and Canada at 888-381-7166 or for international callers at 415-979-2262. When calling AACR Housing be certain to have the following information:

- Arrival and departure dates
- Hotel preferences
- Credit card number
- Your address, phone number, and email address
- Any special requests

The AACR is aware that one or more unauthorized companies are using deceptive advertising methods to direct users to fraudulent websites that offer housing and registration for the AACR Annual Meeting 2025. Please note that AACR.org/AACR2025 is the only website through which users can register to attend the AACR Annual Meeting 2025 and confirm a hotel room. AACR cannot guarantee your registration or housing if you purchase services using an illegitimate website.

Guarantee

Reservations must be guaranteed with either a major credit card (AMEX, Visa, or MasterCard) or a check in the amount of \$300 per guestroom and \$700 per suite. Make checks payable to Convention Management Resources, Inc. If using a credit card, the card will not be charged until the check-out date. You must present a credit card upon check-in.

Changes and Cancellations

Changes and cancellations can be made:

- Online at the AACR Housing website at **AACR.org/AACR2025**
- By emailing your change or cancellation to AACRSupport@cmrus.com
- By calling AACR Housing at 888-381-7166 or 415-979-2262
- By faxing your change or cancellation to 415-293-4397

Your credit card will be charged one night's room plus tax or your check deposit will be forfeited if you cancel your reservation less than 72 hours before your confirmed arrival date. If you fail to arrive on the date confirmed by AACR Housing, your credit card will be charged one night's room plus tax or your check will be forfeited. All subsequent nights of the reservation will be cancelled.

Hospitality Suites

Suites are for sleeping accommodation only and may not be used for meetings or events without prior written permission from the AACR. For these types of events, please complete the AACR Affiliate Event Space Request Form. If you would like a copy of this form, please contact AACR Housing at 888-381-7166, 415-979-2262, or via email at AACRSupport@cmrus.com.

Group Reservations

Organizations wishing to hold a block of rooms must use the Group Housing Form, which can be obtained by visiting **AACR.org/AACR2025** and clicking on the Housing link. Exhibitors may request rooms in the AACR room block and must submit an Exhibitor Room Block Request Form, which can be accessed from **AACR.org/AACR2025**. Please adhere to all rules and regulations to facilitate processing.



TRAVEL

Air Transportation

Chicago is home to two international airports conveniently located in the center of the country, with thousands of daily inbound and outbound flights to more than 240 destinations.

Chicago O'Hare International Airport

O'Hare (ORD) is one of the largest airports in the world. It lies just 16 miles from downtown Chicago.

Chicago Midway International Airport

Midway (MDW) is the nation's premier point-to-point airport, offering value-oriented leisure and business travel to over 60 destinations. It is located only 11 miles from downtown Chicago.

Corporate Traveler Air Travel Office

Need assistance with your travel plans? AACR recommends Corporate Traveler, our air travel assistance vendor.

- Email: samantha.baron@corporatetraveler.us
- \$35 service fee applies
- Business hours: Monday-Friday, 8:00 a.m. to 6:00 p.m. ET
- Emergency after hours: 215-825-3650

Assistance for International Travelers

An official letter of invitation is available through the online registration system. Contact the American Consulate in your country to review the current regulations for travel to the United States. Please begin the visa application process as early as possible. Information is available on the U.S. Department of State website at www.travel.state.gov.

Ground Transportation

- Taxi, Lyft, and Uber pick-up points are available at both airports. Alternatively, you can e-hail and e-pay with [CHICABS](#)-approved apps [ARRO](#) and [CURB](#). Credit cards are accepted in all taxis. Lyft, Uber, and Curb Taxi can be scheduled in advance to cut down your wait time.
- [GO Airport Express](#) provides shared ride services to all downtown/suburban hotels.
- Numerous car rental companies have facilities at both [O'Hare](#) and [Midway](#) airports.

Public Transportation

- The [Chicago Transit Authority \(CTA\) Blue Line 'L' Train](#) provides 24-hour rapid transit train service between Chicago-O'Hare International Airport and the Forest Park terminal, via downtown Chicago.
- The [CTA Orange Line 'L' Train](#) connects directly to Midway. The Orange Line provides rapid transit train service between [Midway Airport](#) and downtown (Loop) and provides service to Chicago's Southwest Side. [See maps and fares.](#)

AACR Shuttle Service

The AACR will provide complimentary shuttle service during the meeting dates for all official AACR Annual Meeting hotels not within walking distance of the McCormick Place Convention Center. When available, the hotel shuttle schedule will be posted on [AACR.org/Travel](#) and will include shuttle hours of operation and the designated route number for each hotel.



GENERAL INFORMATION

Opportunities to Support the AACR Foundation

The AACR Foundation welcomes support from corporations, foundations, individuals, and other organizations that share its mission and are interested in helping to defray the costs of presenting this important international meeting on the latest developments in cancer research. For a complete list of support opportunities and their many benefits, please contact the AACR Foundation's corporate alliances team at corporaterequests@aacr.org.

Fellows of the AACR Academy

The AACR Academy was established in 2013 to honor distinguished scientists whose major scientific contributions have propelled significant innovation and progress against cancer. Those elected, known as Fellows of the AACR Academy, constitute a global brain trust of individuals who are instrumental in advancing the mission of the AACR to prevent and cure all cancers through research, education, communication, collaboration, science policy and advocacy, and funding for cancer research.

The AACR Academy is currently led by Dr. Elizabeth M. Jaffee (2023-2025 AACR Academy President) and a Steering Committee of additional Fellows who serve as the collective voice for all Fellows of the AACR Academy, while providing ongoing advice and counsel to the AACR leadership on timely and significant scientific and policy topics as well as other matters of importance to the cancer field.

The next elected class of prestigious Fellows of the AACR Academy will be formally recognized during the AACR Annual Meeting 2025 Opening Ceremony, scheduled to take place on Sunday, April 27.

AACR Scientific Achievement Awards, Lectureships, and Prizes

Since 1961, the AACR has been proud to recognize scientific excellence across the spectrum of basic, translational, clinical, and epidemiological cancer research through a robust collection of annual awards and lectureships that serve to honor laboratory researchers, physician-scientists, and population scientists who have made significant contributions to our understanding of the diagnosis, prevention, and treatment of cancer. All annual award recipients are honored during the AACR Annual Meeting, and the majority are invited to present featured lectures during the meeting.

A complete listing of all 2025 AACR Scientific Achievement Awards and their associated nomination deadlines is provided below. Visit [AACR.org/Awards](https://www.aacr.org/Awards) to learn more and to nominate your deserving colleagues!

Nomination Submission Deadline: September 15, 2024

- AACR Award for Lifetime Achievement in Cancer Research
- AACR Award for Outstanding Achievement in Basic Cancer Research
- AACR Award for Outstanding Achievement in Blood Cancer Research
- AACR Award for Outstanding Achievement in Chemistry in Cancer Research
- AACR Daniel D. Von Hoff Award for Outstanding Contributions to Education and Training in Cancer Research
- AACR James S. Ewing-Thelma B. Dunn Award for Outstanding Achievement in Pathology in Cancer Research
- AACR Margaret Foti Award for Leadership and Extraordinary Achievements in Cancer Research

GENERAL INFORMATION *(cont'd)*

- AACR Team Science Award
- AACR-American Cancer Society Award for Research Excellence in Cancer Epidemiology and Prevention
- AACR-Cancer Research Institute Lloyd J. Old Award in Cancer Immunology
- AACR-G.H.A. Clowes Award for Outstanding Basic Cancer Research
- AACR-Joseph H. Burchenal Award for Outstanding Achievement in Clinical Cancer Research
- AACR Minorities in Cancer Research Jane Cooke Wright Lectureship
- AACR-Princess Takamatsu Memorial Lectureship
- AACR Award for Outstanding Achievement in Pediatric Cancer Research
- AACR-Waun Ki Hong Award for Outstanding Achievement in Translational and Clinical Cancer Research
- AACR Women in Cancer Research Charlotte Friend Lectureship
- Pezcoller Foundation-AACR International Award for Extraordinary Achievement in Cancer Research

Nomination Submission Deadline: December 9, 2024

- AACR June L. Biedler Prize for Cancer Journalism

Satellite Educational Symposia

Satellite Educational Symposia will be held in conjunction with the AACR Annual Meeting. These CME-accredited events are supported by parties other than the 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 is available at **[AACR.org/AACR2025](https://aacr.org/AACR2025)**.

Registration

Online registration for the AACR Annual Meeting 2025 will open on October 29, 2024. At that time, a complete list of registration options and rates will be posted to the AACR website at **[AACR.org/AACR2025](https://aacr.org/AACR2025)**.



AACR ANNUAL MEETING 2025 COMMITTEES

AACR Annual Meeting Program Committee

CHAIRS

Matthew G. Vander Heiden
Lillian L. Siu

COCHAIRS

Cory Abate-Shen
Alberto Bardelli
Philippe L. Bedard
Robert G. Bristow
Andrea Califano
Caroline Chung
Hyun Cheol Chung
John L. Cleveland
David W. Craig
Benjamin F. Cravatt
Elisabeth de Vries
Chyke A. Doubeni
Jill Feldman
Annie A. Huang
Melissa M. Hudson
Anthony M. Joshua
Yibin Kang
Carlo C. Maley
Ignacio Melero
Folakemi T. Odedina
Naoko Ohtani
Elizabeth A. Platz
Maria Rescigno
Kurt A. Schalper
Mara H. Sherman
Stefani Spranger
Kimberly Stegmaier
Michael A. Teitell
Ashok R. Venkitaraman
E. John Wherry

Johnathan R. Whetstone
Michael B. Yaffe
Qin Yan
Ying Yuan

AACR Annual Meeting Clinical Trials Committee

COCHAIRS

Ryan B. Corcoran
Jayesh Desai

MEMBERS

Alex A. Adjei
Nita Ahuja
Luis A. Diaz
John F. DiPersio
Marina Chiara Garassino
Jennifer Rubin Grandis
James L. Gulley
Susan Halabi
Elizabeth M. Jaffee
Pasi A. Jänne
Komal Jhaveri
Steven K. Libutti
Anirban Maitra
Robert G. Maki
Pamela N. Munster
Donald William Parsons
Evanthis T. Roussos-Torres
Stephen C. Rubin
Charles M. Rudin
Hope S. Rugo
Howard I. Scher
John H. Stewart, IV
Miguel A. Villalona-Calero
Everett E. Vokes

Xifeng Wu
Laurence Zitvogel
Additional Appointments Pending

AACR Annual Meeting Education Committee

CHAIR

Matthew G. Vander Heiden

COCHAIRS

Smita Bhatia
Elisabeth de Vries
Carlo C. Maley
Kimberly Stegmaier
Michael B. Yaffe

AACR Satellite Educational Symposia Committee

Appointments Pending

AACR Exhibits Committee

CHAIR

Wafik S. El-Deiry

MEMBERS

Ana Luisa Correia
Ekrem Emrah Er
Laura M. Heiser
Inas Khayal
Constantinos Koumenis

Christopher A. Maher
Darrion L. Mitchell
Maeve Mullooly
Jorge J. Nieva
Rachel M. Syme
Katherine Y. Tossas
Ruoning Wang

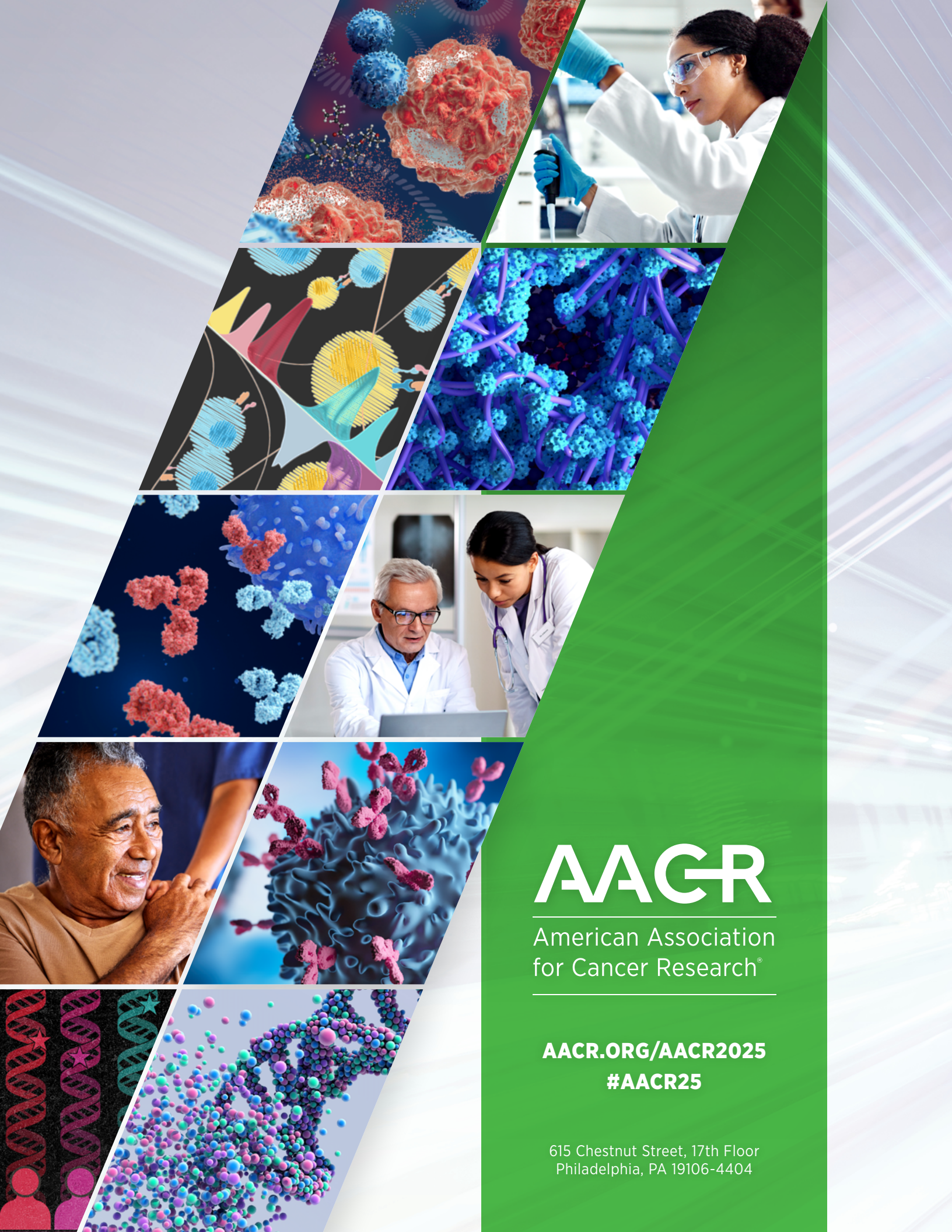
AACR Continuing Medical Education Committee

CHAIR

Steven T. Rosen

MEMBERS

Sarki A. Abdulkadir
Bishoy M. Faltas
Veronica C. Jones
Daniel A. Laheru
Bora Lim
M. Reza Nejati
Folashade Otegbe
Evan B. Shereck
Anita Villani
Xiaotao Zhang



AACR

American Association
for Cancer Research®

AACR.ORG/AACR2025

#AACR25

615 Chestnut Street, 17th Floor
Philadelphia, PA 19106-4404