

FINDING CANCER CURES THROUGH FUNDING RESEARCH

Judy N. Quong, PhD
American Association for Cancer Research (AACR)

To be the most effective catalyst for the cures and prevention of all cancers through cancer science:

- Research
- Education
- Communication
- Collaboration
- Advocacy
- **Funding for cancer research**

Founded 116 years ago, the AACR is the first and largest cancer research organization in the world dedicated to preventing and curing all cancers

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AACR American Association for Cancer Research

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AACR MEMBERSHIP

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<p>AACR JOURNALS TRANSITIONING TO EXCLUSIVE ONLINE AVAILABILITY</p> <p>Effective January 1, 2024</p> <p>Learn More ></p>	<p>THE ESSENTIAL ASSOCIATION FOR CANCER RESEARCH</p> <p>Join AACR in the Global Conquest of Cancer</p> <p>Learn More ></p>	<p>OPPORTUNITIES FOR AACR ASSOCIATE MEMBERS (EARLY- CAREER RESEARCHERS)</p> <p>Learn More ></p>
<p>VALUE OF AACR MEMBERSHIP FOR HEALTH PROFESSIONALS AND PATIENT ADVOCATES</p> <p>Learn More ></p>	<p>SCIENCE EDUCATION FOR THE NEXT GENERATION OF CANCER RESEARCHERS</p> <p>Learn More ></p>	<p>SUPPORTING PROFESSIONAL DEVELOPMENT</p> <p>Learn More ></p>

AACR ASSOCIATE (EARLY CAREER) MEMBERSHIP

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Home > Cancer Researchers / Other Health Care Professionals > AACR Membership > Become a Member > Membership Categories > Associate Membership

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- ASSOCIATE MEMBERSHIP ▾**
- AACR EARLY-CAREER HILL DAY
- ASSOCIATE MEMBER ELIGIBILITY RECERTIFICATION
- NATIONAL POSTDOC APPRECIATION WEEK
- STUDENT MEMBERSHIP >
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ASSOCIATE MEMBERSHIP

<p>MAINTAIN YOUR ASSOCIATE MEMBERSHIP</p> <p>Take action and recertify your eligibility for Associate Membership</p> <p>Learn More ></p>	<p>ASSOCIATE MEMBER COUNCIL (AMC)</p> <p>The representative body of the AACR Associate members.</p> <p>Learn More ></p>	<p>SUPPORTING THE PROFESSIONAL DEVELOPMENT AND CAREER ADVANCEMENT OF EARLY-CAREER RESEARCHERS</p> <p>Learn More ></p>
<p>EDUCATION & TRAINING</p> <p>The AACR supports the education and training of early-career researchers through educational workshops, special conferences, courses, and more!</p> <p>Learn More ></p>	<p>OPPORTUNITIES FOR MEDICAL STUDENTS, RESIDENTS, CLINICIANS, AND PHYSICIAN-SCIENTISTS</p> <p>Learn More ></p>	<p>CANCERCAREERS.ORG</p> <p>Exclusively features cancer research positions!</p> <p>Learn More ></p>

AACR MEETINGS AND SPECIAL CONFERENCES

The screenshot displays the AACR website's navigation and content. At the top, the AACR logo and tagline are on the left, and a search bar and 'DONATE TODAY' button are on the right. A secondary navigation bar includes 'CANCER RESEARCHERS / OTHER HEALTH CARE PROFESSIONALS', 'PATIENTS, CAREGIVERS, AND ADVOCATES', 'GET INVOLVED', 'WAYS TO GIVE', and 'ABOUT THE AACR'. Below this is a main navigation bar with 'MEMBERSHIP', 'MEETINGS', 'EDUCATION AND TRAINING', 'RESEARCH FUNDING', 'PUBLICATIONS', 'RESEARCH', 'PROJECT GENIE', 'POLICY AND ADVOCACY', and 'BLOG'. The 'MEETINGS' tab is highlighted. The main content area features a breadcrumb trail: 'Home > Cancer Researchers / Other Health Care Professionals > Meetings'. Under 'IN THIS SECTION', a vertical list of links is provided: 'AACR ANNUAL MEETING 2024', 'PREVIOUS AACR MEETINGS', 'MEETINGS AND WORKSHOPS CALENDAR', 'AACR ANNUAL MEETING 2023', 'MYAACR SUPPORT: VIRTUAL MEETING ACCESS / REGISTRATION', 'FUTURE ANNUAL MEETINGS', 'AACR TRAVEL GRANTS', 'AACR STATEMENT REGARDING VENUES FOR THE AACR ANNUAL MEETING AND OTHER CONFERENCES', 'GENERAL INFORMATION AND FAQs', and 'ANNOUNCEMENTS: OTHER ORGANIZATIONS'. A featured card for the 'AACR-NCI-EORTC Conference on Molecular Targets and Cancer Therapeutics' is shown, with a 'LEARN MORE' button. Below this are three smaller cards for 'AACR SPECIAL CONFERENCE IN CANCER RESEARCH: ADVANCES IN BREAST CANCER RESEARCH', 'FRONTIERS IN CANCER SCIENCE', and 'AACR-KCA JOINT CONFERENCE ON PRECISION MEDICINE IN CANCER', each with its own 'Learn More' button.

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- AACR STATEMENT REGARDING VENUES FOR THE AACR ANNUAL MEETING AND OTHER CONFERENCES
- GENERAL INFORMATION AND FAQs
- ANNOUNCEMENTS: OTHER ORGANIZATIONS

AACR-NCI-EORTC
Conference on Molecular Targets and Cancer Therapeutics

October 11-15, 2023
Boston, Massachusetts

[LEARN MORE](#)

AACR SPECIAL CONFERENCE IN CANCER RESEARCH: ADVANCES IN BREAST CANCER RESEARCH

October 19-22, 2023
San Diego, California

[Learn More >](#)

FRONTIERS IN CANCER SCIENCE

November 6-8, 2023
Singapore, Singapore

[Learn More >](#)

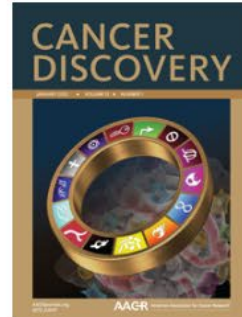
AACR-KCA JOINT CONFERENCE ON PRECISION MEDICINE IN CANCER

November 15-17, 2023
Seoul, Korea

[Learn More >](#)



Blood Cancer Discovery



Cancer Discovery



Cancer Epidemiology,
Biomarkers, & Prevention



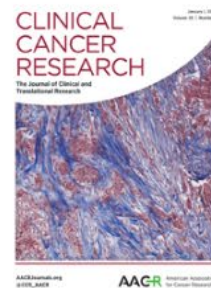
Cancer Immunology
Research



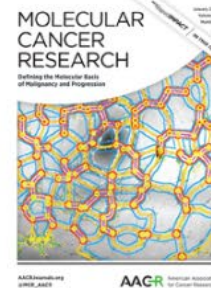
Cancer Prevention
Research



Cancer Research



Clinical Cancer Research



Molecular Cancer
Research



Molecular Cancer
Therapeutics



Cancer Research
Communications

ABOUT THE AACR CANCER PROGRESS REPORT

With the number of cancer cases diagnosed in the United States rising every year, it is vital that the AACR increases public awareness about cancer and the importance of research for improving health and saving lives from cancer. The annual AACR Cancer Progress Report is a cornerstone of these educational efforts and the AACR's work to advocate for increased funding for the federal agencies that are vital for fueling progress against cancer in particular, the National Institutes of Health (NIH), the National Cancer Institute (NCI), and the Food and Drug Administration (FDA).



The Report is released in September of each year and highlights advances over the past 12 months in the prevention, detection, diagnosis, and treatment of cancer. It also includes the **personal experiences of cancer survivors** who have benefited from these advances. Together with the developments described in the report, these survivor stories provide hope for a much brighter future for cancer patients and their loved ones.

ABOUT THE AACR CANCER DISPARITIES PROGRESS REPORT

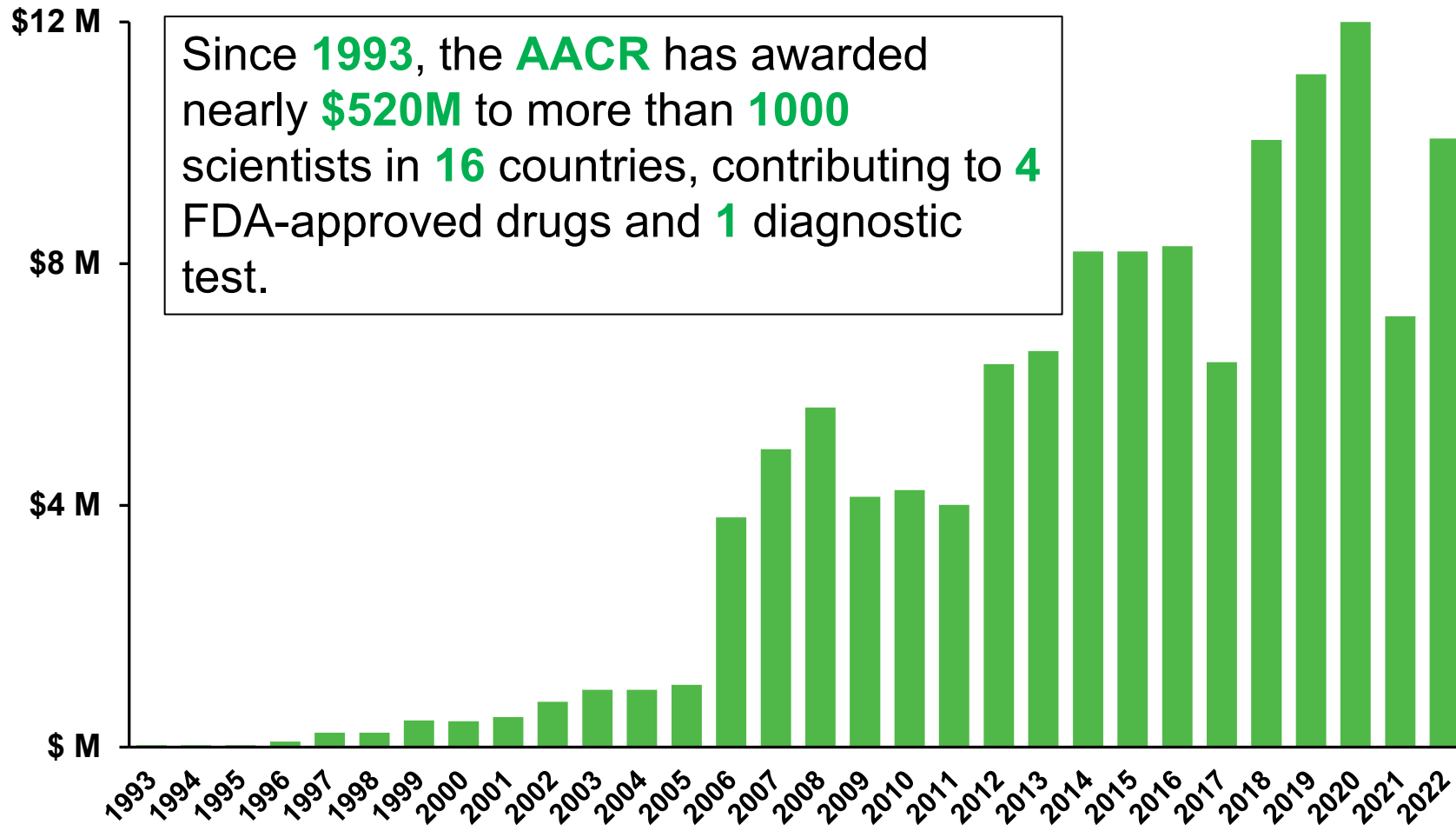
The AACR has been a longtime leader in advancing the science of cancer health disparities and the *AACR Cancer Disparities Progress Report* is a new initiative with the overarching goal of increasing public understanding of cancer health disparities and of the vital importance of cancer health disparities research to saving lives. The report underscores the need for increased annual federal funding for the government entities that fuel progress against cancer health disparities, in particular, the National Institutes of Health, National Cancer Institute, and Centers for Disease Control and Prevention.



AACR RESEARCH AND GRANTS ADMINISTRATION



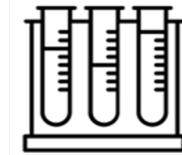
AACR GRANTS PROGRAM CONTINUES TO GROW



We support the complete research life cycle



BASIC



TRANSLATIONAL



CLINICAL

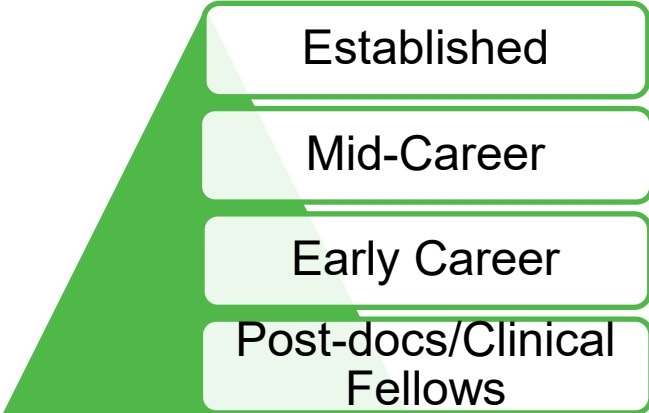
We support all stages of career development



- ✓ Established scientists
- ✓ Mid-career scientists
- ✓ Junior faculty
- ✓ Postdoc

- Awarded **57** grants
- A total of **\$10.3M**
- Received **981** applications from the US and **31** other countries
- **24** expert Scientific Review Committees

AACR GRANTS SUPPORT ALL STAGES OF CAREER DEVELOPMENT

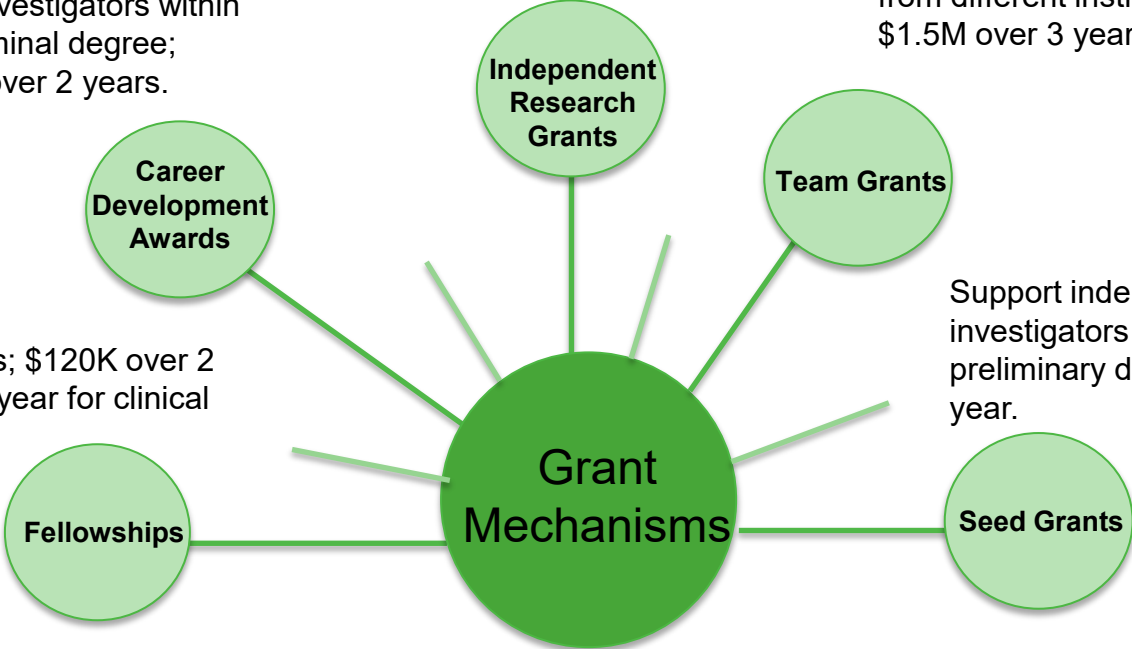


Early Career Investigators within 11 years of terminal degree; \$150K-\$200K over 2 years.

Independent research investigators at any career stage; ~ \$250K over 2 years.

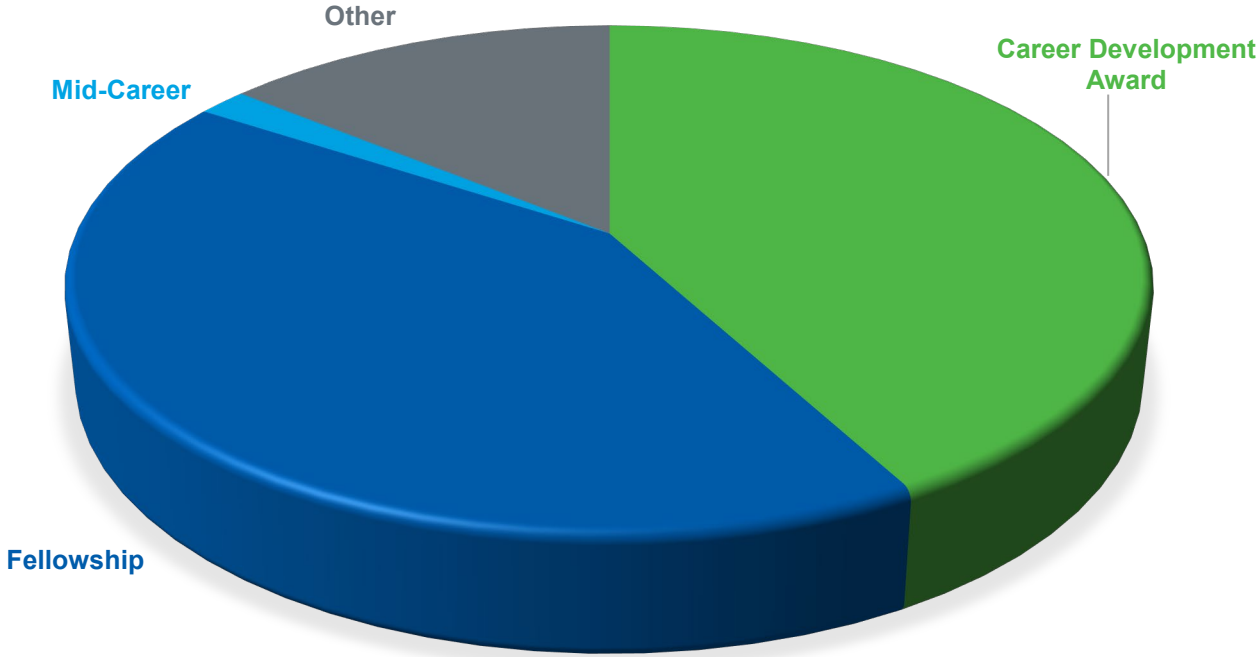
Collaborative grants for investigators from different institutions; up to \$1.5M over 3 years.

Postdocs/clinical fellows; \$120K over 2 years (\$100K over one year for clinical fellowships).



Support independent research investigators generate preliminary data; \$50K over 1 year.

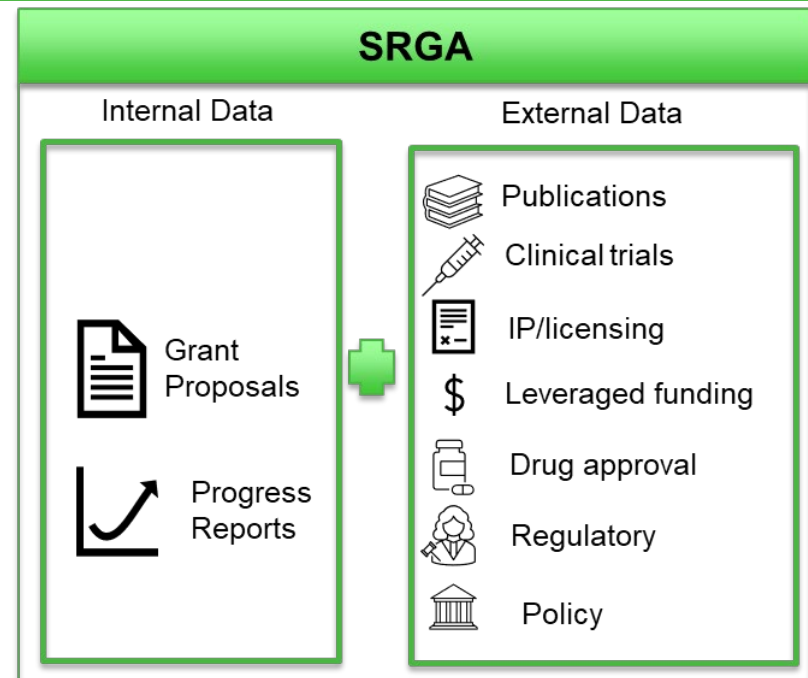
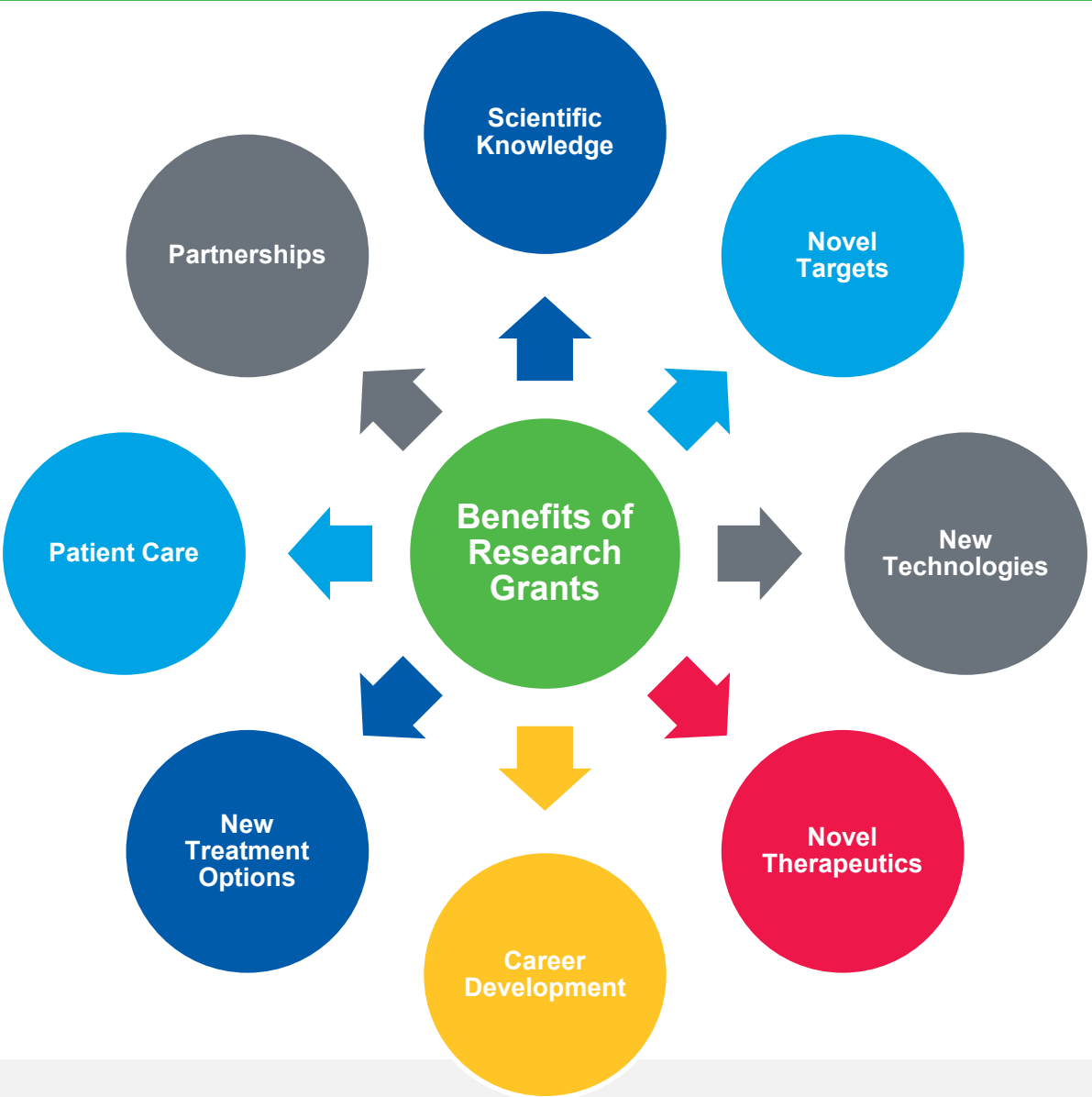
2022 FUNDING PORTFOLIO BASED ON NUMBER OF GRANTS FUNDED



Funding supports the full spectrum of cancer research including basic, translational, clinical, and population sciences including:

- Breast cancer
- Gastric cancer
- Hematologic malignancies
- Kidney cancer
- Lung cancer
- Neuroendocrine tumors
- Ovarian cancer
- Pediatric cancer
- Cancer health disparities
- Diversity, Equity, and Inclusion
- Immunotherapeutic approaches to cancer treatment
- Regenerative medicine in cancer survivors
- Tumor Treating Fields
- and more.....

RESEARCH FUNDING IS AN INVESTMENT: WE TRACK AND MEASURE RETURNS



FOSTERING DRUG DISCOVERY

SUPPORTING TRANSFORMATIVE RESEARCH

CREATING SCIENTIFIC LEADERS

MILESTONES OF AACR FUNDED GRANT RESEARCH (WORK IN PROGRESS)

1993 AACR AWARD First basic cancer research awarded

1996 AACR AWARD First clinical fellowship awarded

2000 Tumor type-specific patterns of aberrant CpG-island methylation

2005 Cyclin D-CDK4 role in mammary tumors

2005 KPC pancreatic cancer mouse model development

2005 EGFR (T790M) gatekeeper mutation identified

2006 CD19 CAR T Patent

2007 MET amplification as gefitinib resistance mechanism

2009 3D matrix cell culture system developed

2009 Discovery of "don't eat me signal" CD47

2009 ARN-509/apalutamide preclinical development

2010 First CD20/CD19 specific CAR pilot clinical study

2012 PARP1 a target in SCLC

2014 PRMT5 a target in GBM

2015 FDA approval of CDK4/6 inhibitors breast cancer

2015 FDA approval of EGFR mutation (T790M) test

2015 Driver genes identical in familial and sporadic pancreatic cancer

2015 IZKF1 alteration as resistance mechanism to ABL kinase therapy

2016 Dual CAR T development

2016 Therapeutic potential of anti-CTLA-4 adoptive cell therapy combination

2018 FDA approval of dacomitinib

2018 FDA approval of apalutamide

2019 Tumor microbiome impacts patients outcomes

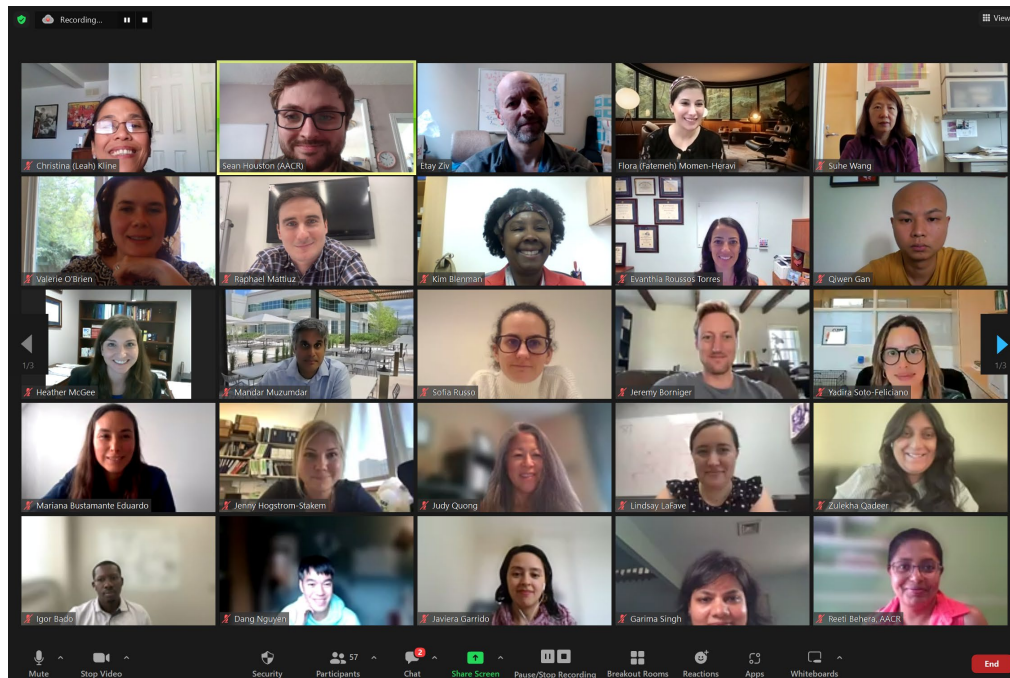
2020 Breakthrough therapy designation for anti-CD47

2020 FDA approval of capmatinib for patients with c-Met exon skipping mutation

2021 FDA clears IND for dual CAR T

VIRTUAL AACR GRANTEE CLUB

Provide a platform for current and past AACR grantees to foster networking, share knowledge, and cultivate research collaborations



“Being an awardee of the AACR grants program fostered my career enormously. I got to know many cancer biologists through the [AACR grantee club](#) meetings. These meetings were of enormous help in establishing new collaborations across the oceans. It also helped my research to continue going, even beyond the grant end date.”

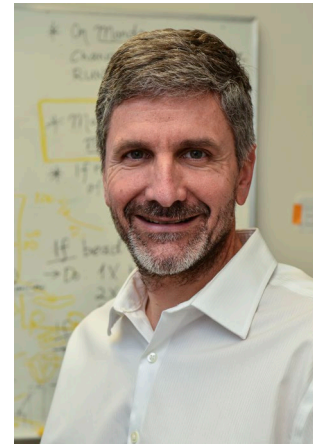
“Thanks so much for organizing such a great event. I really enjoyed the talks and appreciate the opportunity to hear from and interact with such a great group of scientists.”

SUPPORTING OUR GRANTEES AT AACR ANNUAL MEETING

- Annual Grants Reception and Dinner
- Grants Booth
- Inaugural Meet-the-Reviewers Event

James DeGregori, PhD
University of Colorado Anschutz Medical Campus

Christine A. Iacobuzio-Donahue
Memorial Sloan Kettering Cancer Center



AACR Research Grants Program

AACR grants support researchers, both domestically and abroad, at every stage of their career, representing a global commitment to understanding, preventing, diagnosing, and treating cancer.

For more information, visit [AACR.org/Funding](https://www.aacr.org/funding)



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THANK YOU!!



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