NCI Director's Report

Clinical Trials and Translational Research Advisory Committee (CTAC)

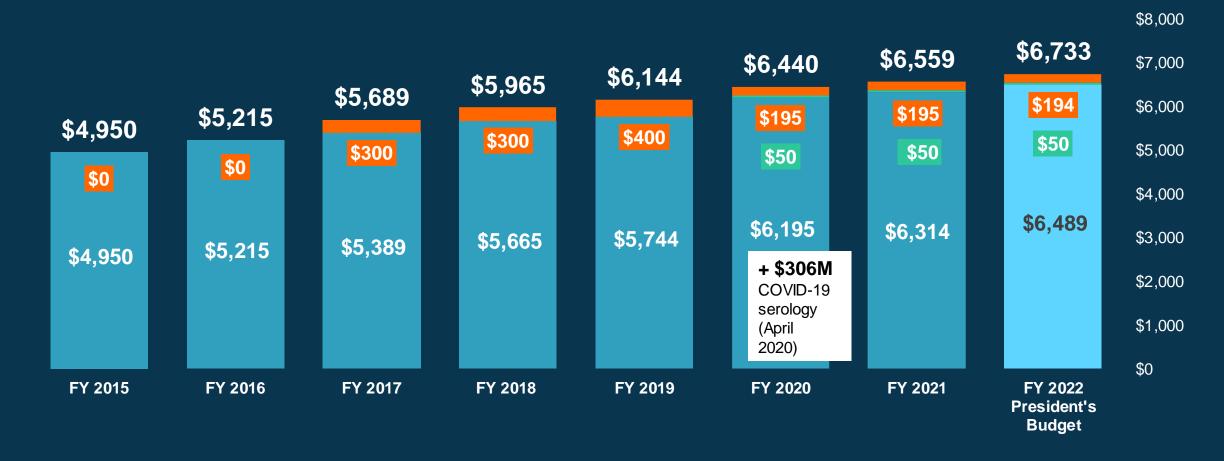
Norman E. Sharpless, M.D. July 14, 2021

@ NCIDirector
@ TheNCI

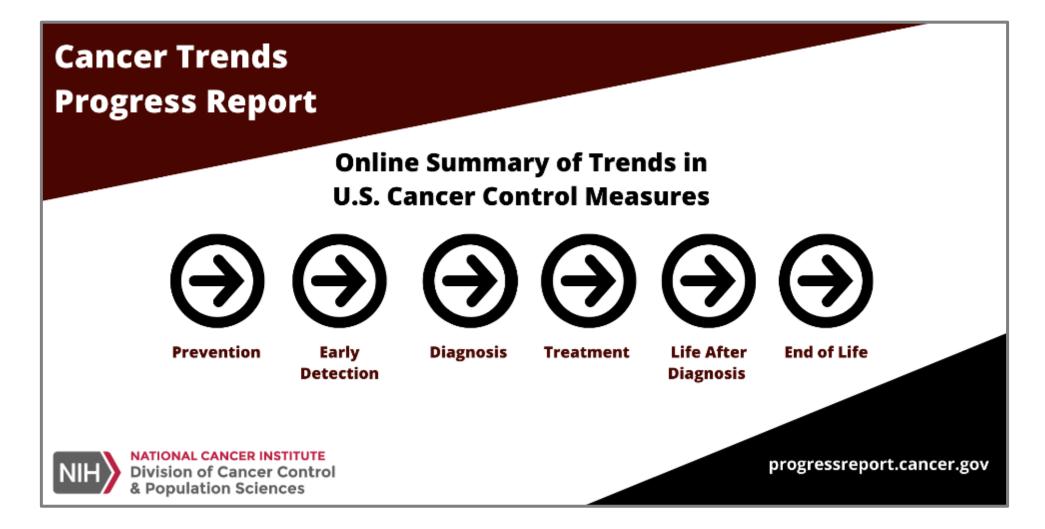


NCI Appropriations FY 2015 – 2022 (in millions)

21st Century Cures Act - orange Childhood Cancer Initiative - green



Just released: Cancer Trends Progress Report



Just released: Annual Report to the Nation



National Trends in Cancer Death Rates

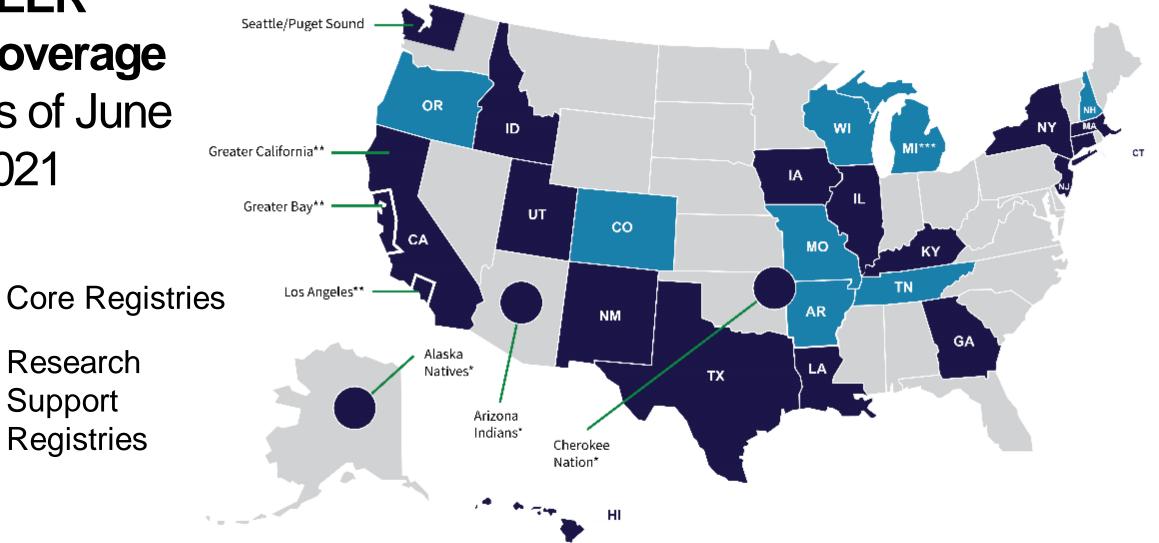


SEER Coverage As of June 2021

Research

Registries

Support



U.S.-U.K. Bilateral Cancer Summit



Doug Mills/The New York Times

"We will convene the first U.S.-U.K. Bilateral Cancer Summit and bring together researchers, patients, and other stakeholders to share ideas and identify opportunities for collaboration to accelerate advances in lifesaving approaches to cancer, which remains a leading cause of death worldwide."

- Joint statement issued June 10, 2021

NCI COVID-19 in Cancer Patients Study (NCCAPS)

875

TRIAL SITES
ACTIVATED
IN

50

STATES + DC, PUERTO RICO, AND CANADA Special emphasis on minority, underserved and rural communities

Participants
will be
followed for
2 years

1,150 ENROLLED

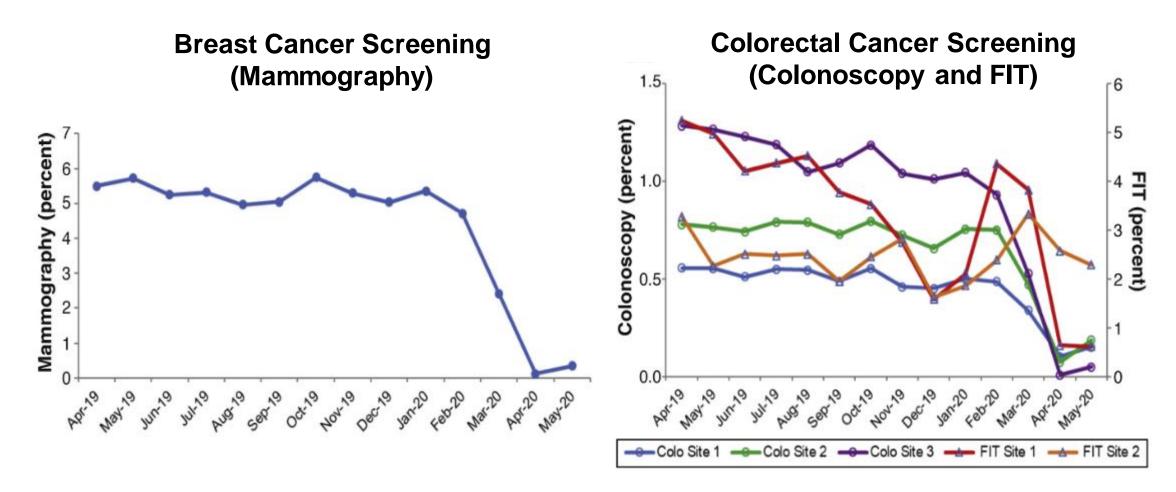
91 pediatric patients enrolled

Launched May 21, 2020 Conception to Launch in 6 weeks Aims to enroll 2,000 patients across 1,000 sites in U.S.

ASCO 21 ABSTRACTS #6565

#6566

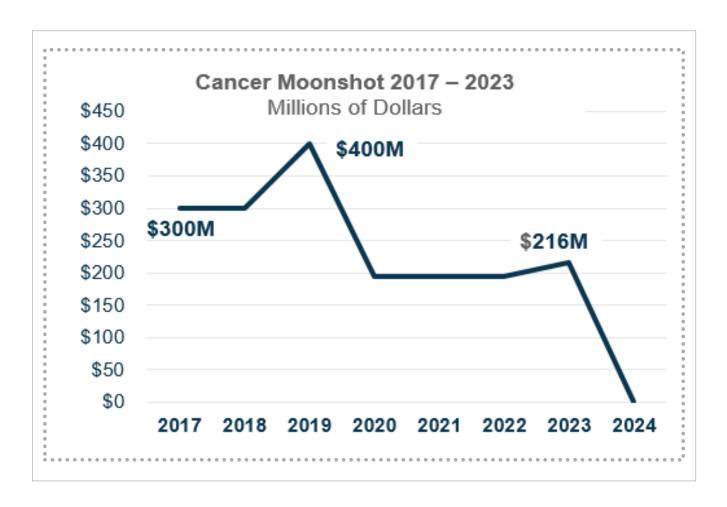
Impact of COVID-19 pandemic on cancer screening in the US

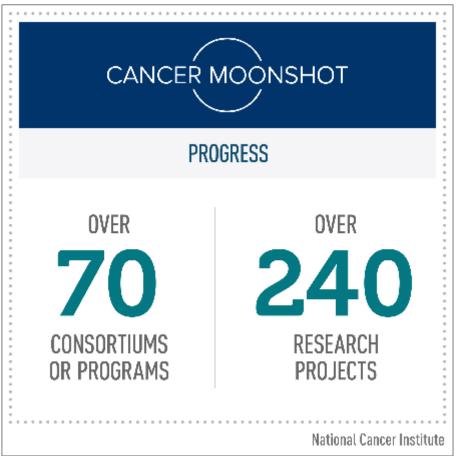


Cancer Screening During the Coronavirus Disease-2019 Pandemic: A Perspective From the National Cancer Institute's PROSPR Consortium. Gastroenterology, Volume 160, Issue 4, 999 - 1002

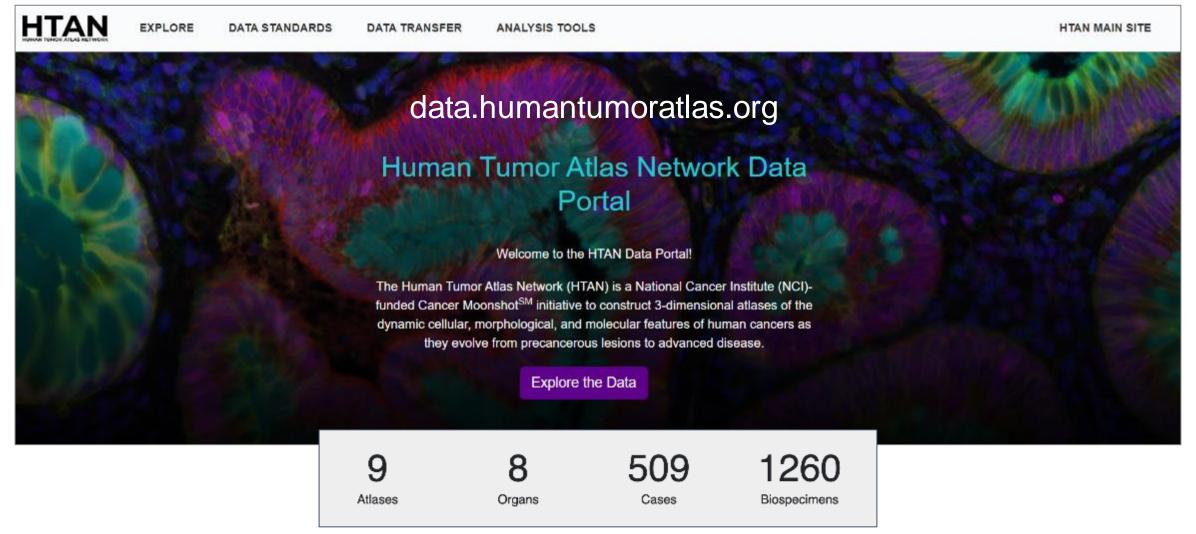


Cancer MoonshotSM





Human Tumor Atlas Network Data Portal









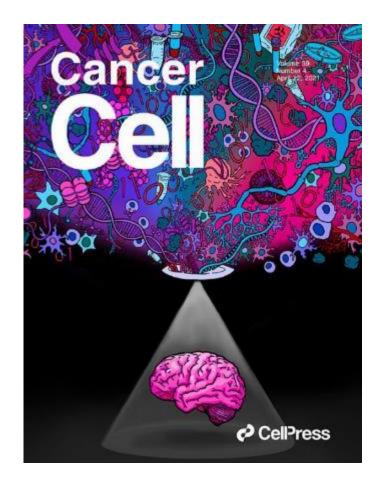
Adjuvant Olaparib for Patients with BRCA1- or BRCA2-Mutated Breast Cancer

Andrew N.J. Tutt, M.B., Ch.B., Ph.D., Judy E. Garber, M.D., M.P.H., Bella Kaufman, M.D., Giuseppe Viale, M.D., Debora Fumagalli, M.D., Ph.D., Priya Rastogi, M.D., Richard D. Gelber, Ph.D., Evandro de Azambuja, M.D., Ph.D., Anitra Fielding, M.B., Ch.B., Judith Balmaña, M.D., Ph.D., Susan M. Domchek, M.D., Karen A. Gelmon, M.D., et al., for the Olympia Clinical Trial Steering Committee and Investigators*

3-year invasive disease-free survival	Placebo 77.1%	3-year distant disease-free survival	Placebo 80.4%
	Olaparib 85.9%		Olaparib 87.5%
Difference: 8.8 percentage points 95% CI: 4.5 to 13.0.		Difference: 7.1 percentage points 95% CI: 3.0 to 11.1	

Proteogenomic and metabolomic characterization of human glioblastoma

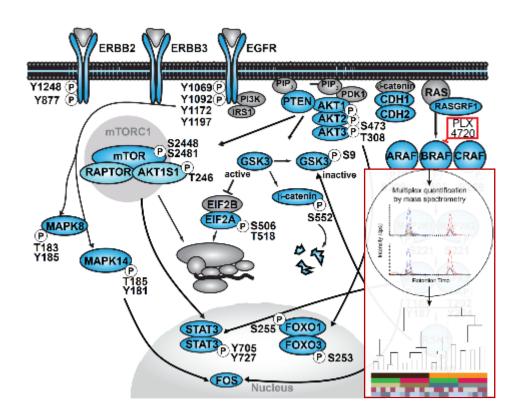
- Phosphorylated PTPN11 and PLCG1 represent a signaling hub in RTK-altered tumors
- Four immune GBM subtypes exist, characterized by distinct immune cell populations
- Mesenchymal subtype EMT signature is specific to tumor cells, but not to stroma
- Histone H2B acetylation is enriched in classical GBMs with low macrophage content





NCI RAS Initiative - Proteomic Assays to Oncogenic Growth Signaling Networks

- Goal of RAS initiative develop assays to quantify RAS signaling
- Developed community resource of 256
 validated multiplexed mass spec assays
 for quantifying protein expression and
 phosphorylation through the receptor
 tyrosine kinase, MAPK, and AKT
 signaling networks
- Assays replace over 60 western blots
- SOPs, fit-for-purpose validation, and reagents publicly available



assays.cancer.gov & antibodies.cancer.gov



Genomic Classification and Clinical Outcome in Rhabdomyosarcoma (RMS)

- International consortium study designed to determine the incidence of driver mutations and their association with clinical outcome
- Led by Javed Khan, M.D and Jack F. Shern, M.D. of CCR
- Analyzed DNA from 641 patients
- The presence of mutations in *TP53*, *MYOD1*, and *CDKN2A*, appears to be associated with a more aggressive form of the disease and a poorer chance of survival.





NCI Equity and Inclusion Program

EQUITY COUNCIL

Chair Ned Sharpless

Co-ChairPaulette Gray

Mark Alexander Andrea Apolo Nelvis Castro Bob Croyle Montse Garcia-Closas Anne Lubenow Ji Luo Donna Siegle Dinah Singer Sanya Springfield

WORKING GROUP 1

Enhancing Research to Address Cancer Health Disparities

CO-CHAIRS

Jim Doroshow Worta McCaskill-Stevens Tiffany Wallace

WORKING GROUP 2

Ensuring Diversity of Thought and Background in the Cancer Research Workforce CO-CHAIRS

LeeAnn Bailey
Susan McCarthy
Glenn Merlino

WORKING GROUP 3

Promoting an Inclusive and Equitable Community at NCI

CO-CHAIRS

Shannon Bell Satish Gopal Paige Green

WORKING GROUP 4

Systematic Tracking and Evaluation of Equity Activities

CO-CHAIRS

Michelle Bennett Doug Lowy

WORKING GROUP 5

Communications and Outreach for Equity Activities

CO-CHAIRS

Peter Garrett Angela Jones Anita Linde



Joint BSA-NCAB Meeting - June 14, 2021



View the presentations and discussions at cancer.gov.

Enhancing Research to Address Cancer Health Disparities

Tiffany Wallace, Ph. D.

Ensuring Diversity of Thought and Background in the Cancer Research Workforce

LeeAnn Bailey, Ph.D.

Promoting an Inclusive and Equitable Community at NCI

Paige Green, Ph.D.

National Cancer Act of 1971 50th Anniversary









Discussion