NCI Director's Report

Norman E. Sharpless, M.D. June 14, 2018





October 17, 2017



National Cancer Act of 1971

- Provided broad authority for the National Cancer Program
- Granted the NCI Director "bypass budget" authority
- Mandated the presidentially appointed National Cancer Advisory Board and the President's Cancer Panel

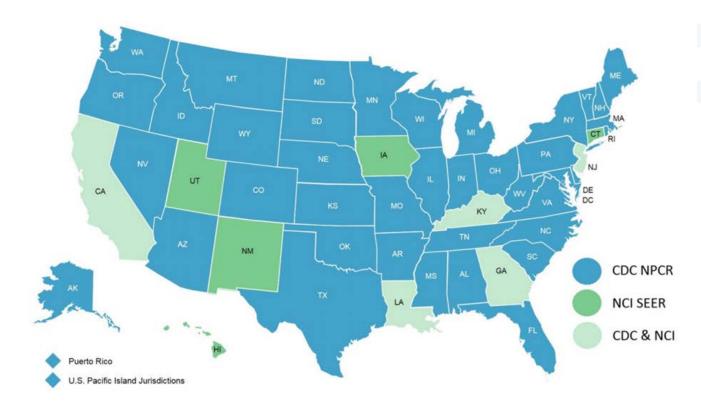




Frederick National Laboratory for Cancer Research

The SEER Program

Surveillance, Epidemiology and End Results



- Funded by NCI to support research on the diagnosis, treatment and outcomes of cancer since 1973
- 16 population-based registries covering 28% of the US population
 - Registries collect information on all cancer cases for residents of the state or region
 - Representing racial and ethnic minorities
 - Various geographic subgroups
- 450,000+ incident cases annually

President's Cancer Panel Report March 2018

Promoting Value, Affordability, and Innovation in Cancer Drug Treatment

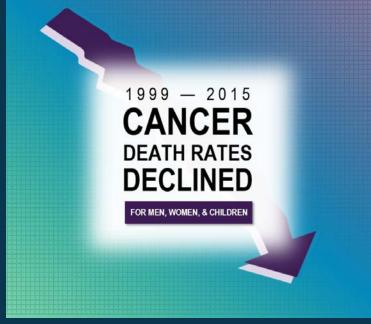


A Report to the President of the United States from the President's Cancer Panel

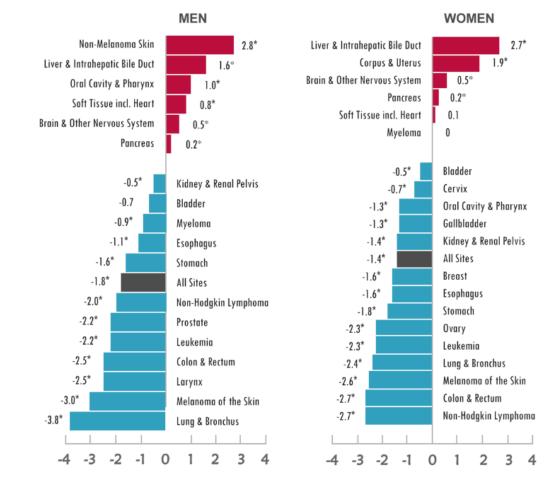
70 NCI Designated Cancer Centers







NATIONAL TRENDS IN CANCER DEATH RATES



AVERAGE ANNUAL PERCENT CHANGE (AAPC) 2011-2015

The New York Times

Good News for Women With Breast Cancer: Many Don't Need Chemo

Many women with early-stage forms of the disease can forego chemo, based on a test that measures the activity of genes involved in breast cancer recurrence.

By DENISE GRADY JUNE 3, 2018

The Washington Post Democracy Dies in Darkness

Researchers use immune-cell 'army' to battle another tough cancer

By Laurie McGinley June 4 🛛 Email the author





Thousands of women will avoid chemo thanks to a study funded by the breast cancer stamp

Many breast cancer patients don't need chemo, a precision medicine study just found. By Julia Belluz | @juliaoftoronto | julia.belluz@voxmedia.com | Jun 5, 2018, 12:00pm EDT

Newsweek

HEALTH

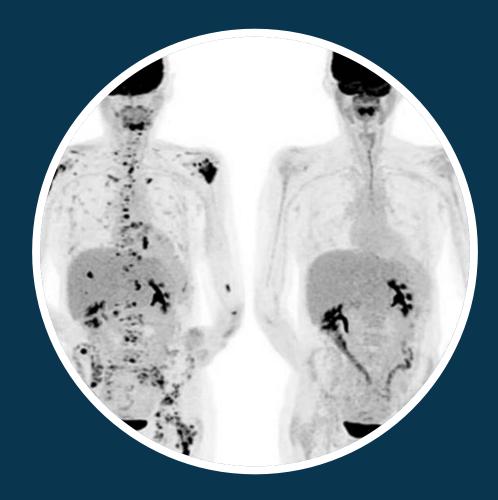
WHAT IS IMMUNOTHERAPY?: WOMAN WITH TERMINAL BREAST CANCER SAVED BY PIONEERING TREATMENT

BY KASHMIRA GANDER ON 6/5/18 AT 7:03 AM

When it's appropriate to use the C-word: A conversation with the director of the National Cancer Institute

Meg Tirrell | @megtirrell Published 10:26 AM ET Mon, 4 June 2018 | Updated 12:21 PM ET Mon, 4 June 2018

SCNBC



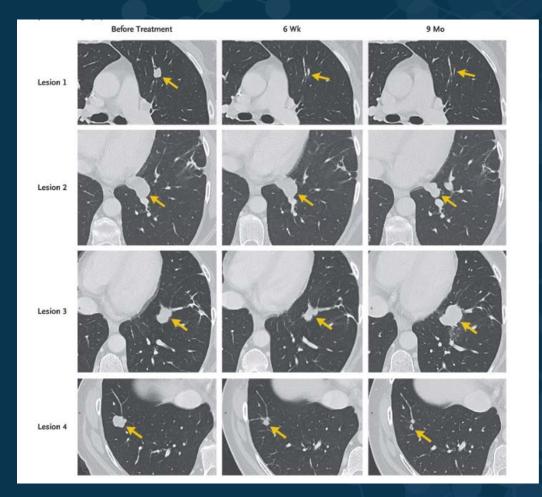
Cancer Immunotherapy

PET scans of a patient with multiple myeloma treated with BCMAtargeted CAR T cells. Courtesy of J. Kochenderfer, NCI.



Targeting the KRAS^{G12D} Neoantigen to Treat Cancer

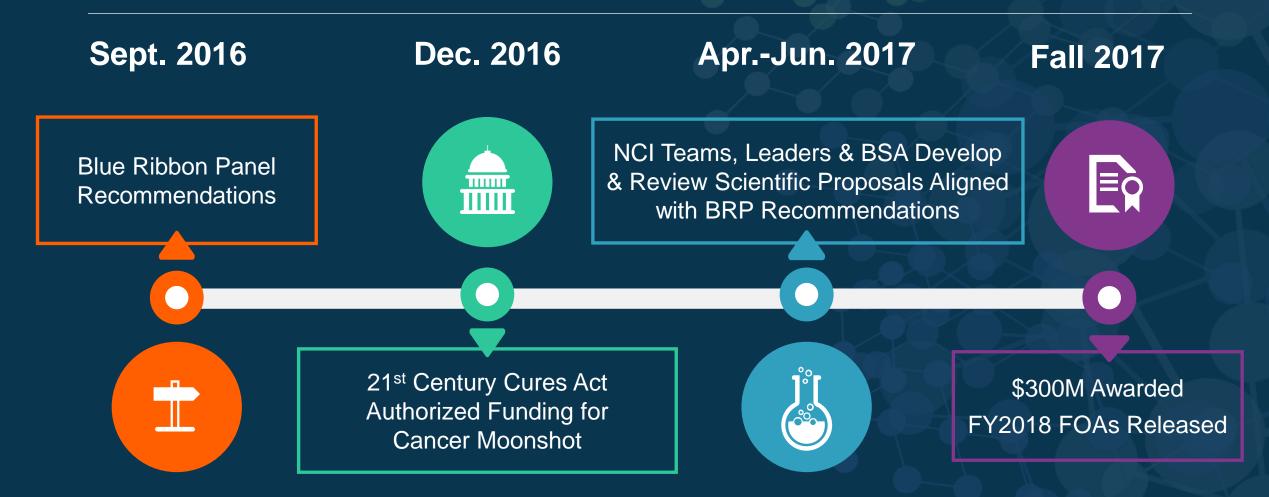




L: Steven Rosenberg, MD. (NCI) R: Tran et al, NEJM 2016



Cancer Moonshot



Cancer Moonshot FOAs

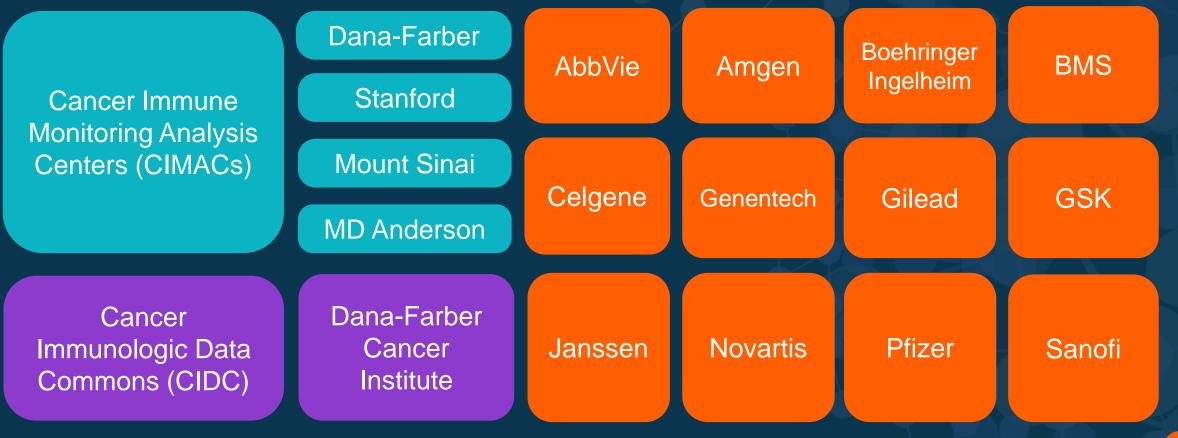
NIH NATIONAL CANCER INSTITUTE								
	1-800-4-CANCER Live Chat Publications Dictionary							
ABOUT CANCER CANCER TYPES	RESEARCH GRANTS & TRAINING NEWS & EVENTS ABOUT NCI search Q							
Home > Research > Key Initiatives > Cancer Moonshot** AA 🖶 🖾 f 🎔 G* 🖗								
CANCER MOONSHOT [™]	Cancer Moonshot SM – Funding Opportunities The funding opportunity announcements (FOAs) listed below							
Blue Ribbon Panel +	highlight research initiatives that align with the efforts of the							
Implementation	Cancer Moonshot. They may be supported with existing funds or with the 21st Century Cures funding.							
Funding Opportunities	OPPORTUNITIES							
Public Access Policy Resources for FOAs	Planning for implementation of longer-term scientific initiatives is also underway. We will continue to update this BLUE RIBBON PANEL RECOMMENDATIONS							
	page as new funding opportunities become available so check back often or sign up to receive automatic email updates on Cancer Moonshot-related activities.							
	More information about the recently announced funding opportunities is available on the Cancer Moonshot Funding Resources page.							
	Please note that all publications and data resulting from Cancer Moonshot funded initiatives will be required to be immediately accessible. For more information, see the Cancer Moonshot Public Access and Data Sharing Policy.							

Close to 50
 Funding Opportunity
 Announcements to date
 and more to come

- 6 intramural initiatives
- Requirements related to data sharing and health disparities/ underserved populations

Partnership for Accelerating Cancer Therapies (PACT)

National Cancer Institute - Division of Cancer Treatment & Diagnosis



BASIC SCIENCE

Reaffirm our commitment to basic science to drive novel approaches and technologies

WORKFORCE DEVELOPMENT

Support the cancer research enterprise by focusing on the workforce of cancer investigators

BIG DATA

Increase data aggregation and interpretation to speed our work across the cancer enterprise

CLINICAL TRIALS

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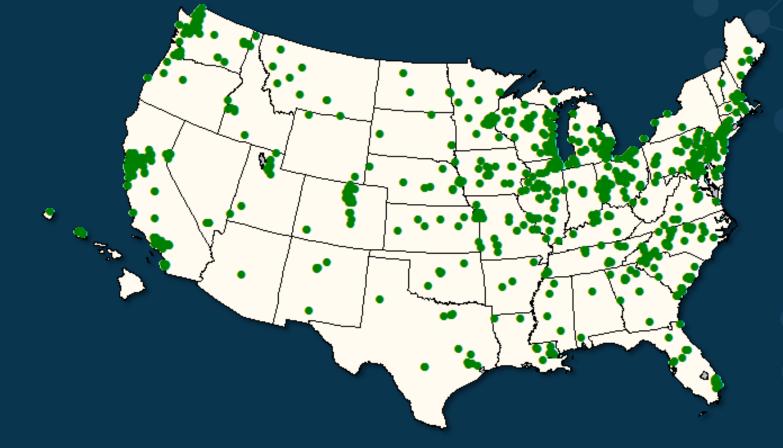
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NCI Molecular Analysis for Therapy Choice (NCI-MATCH)



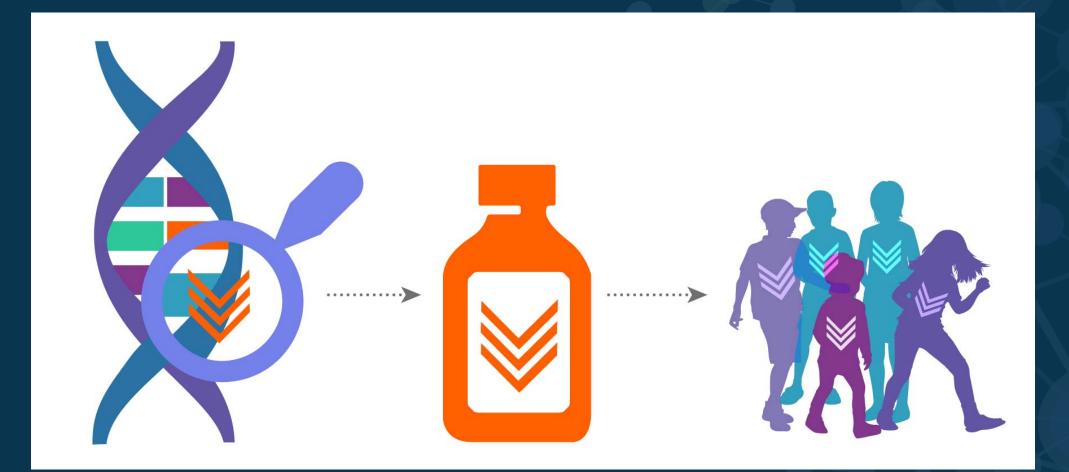
 Precision oncology trial to explore treating patients based on the molecular profiles of their tumors

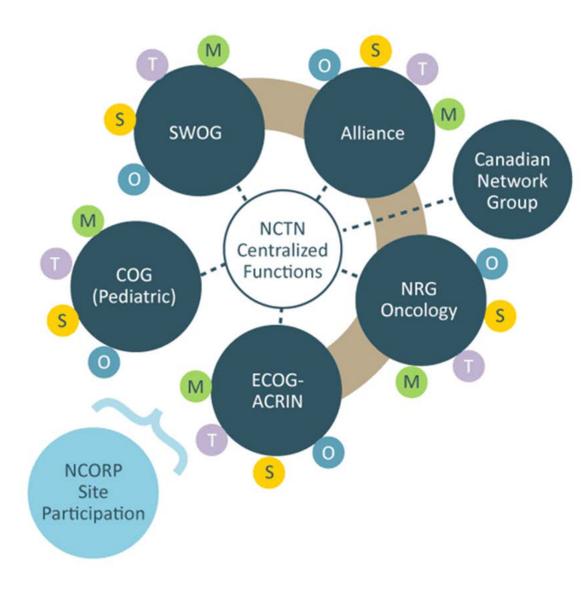
 1,118 sites in U.S. across NCTN and NCORP

NCI Molecular Analysis for Therapy Choice (NCI-MATCH)

Time period	# enrolled	# first samples submitted	# first sample fail	# assay complete	# assigned to Rx	# enrolled on Rx
Total Pre Pause	794	739	116	645	54	27
Total Post Pause	5,603	5,223	425	4,912	937	660
Overall Total Screening Cohort	6,396	5,962	544	5,560	992	689
Total Outside Assay	74	36	2	68	59	45

NCI-COG Pediatric MATCH





NCI National Clinical Trials Network (NCTN)





We're calling on one million people to lead the way toward better health.

What is precision medicine?

Precision medicine is health care that is based on you as an individual. It takes into account factors like where you live, what you do, and your family health history. The goal is to be able to tell people the best ways to stay healthy. If someone does get sick, precision medicine may help health care teams find the treatment that will work best.

What is the All of He Decensel Dreaman?

How long will All of Us last?

All of Us may last for at least 10 years. We hope you will stay involved over time. If you join, you can withdraw ("quit") at any time for any reason without penalty.

Why should I join All of Us?

You will be contributing to research that may improve health for everyone. Here are some examples of what

Selected Collaborations with Other ICs

- New-Onset Diabetes and Pancreatic Cancer Cohort Study with NIDDK
- Head and Neck Cancer Specialized Programs of Research Excellence (SPOREs) – with NIDCR
- Pediatric HIV/AIDS Cohort Study (PHACS) with NICHD
- Improving Outcomes in Cancer Treatment-Related Cardiotoxicity with NHLBI
- Center for Advanced Tissue Imaging (CAT-I) with NIAID
- Immuno-Oncology Translation Network (IOTN): Immunoprevention Research Projects - with NIEHS, NINDS, and NIDCR Immunotherapy Research Projects - with NIEHS, NINDS, NIDCR, and NIAAA
- Gabriella Miller Kids First (Common Fund)
- NCI-NIMHD Collaborative Working Group on Chronic Liver Diseases and Liver Cancer



www.cancer.gov

www.cancer.gov/espanol