

Update on NCI Center for Global Health

Satish Gopal MD MPH

15th Virtual Meeting of the National Cancer Advisory Board

Ad Hoc Subcommittee on Global Cancer Research

Q4 2020

- International Agency for Research on Cancer Medium-Term Strategy Working Group participation
- Trans-NCI-NIH Conference on International Perspectives on Integrative Medicine for Cancer Prevention and Cancer Patient Management
- Tobacco Use and HIV in LMICs RFA issuance (RFA-CA-20-037)
- Administrative supplement opportunity issuance for global cancer stigma research (NOT-CA-21-026)

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- Affordable Cancer Technologies RFA reissuance (RFA-CA-21-030)
- CGH10 commemoration launch
- All Ireland Cancer Consortium renewal
- 9th Annual Symposium on Global Cancer Research
- Administrative supplement opportunity issuance for global cancer + COVID research (NOT-CA-21-033)

Q2 2021

- CGH 2021-2025 Strategic Plan launch
- Administrative supplement opportunity issuance for global cancer survivorship research (NOT-CA-21-058)

Q3 2021

- Deputy Director Patti Gravitt joins
- First cohort of NCI D43 LMIC institutional training awards
- Implementation Science for Cancer Control in HIV in LMICs RFA issuance (RFA-CA-21-056)
- 2021 Global Oncology Survey of NCI-Designated Cancer Centers launch

Key accomplishments since we met last year

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Key accomplishments since we met last year


CGH10 commemoration – celebrating global health at NCI

NIH NATIONAL CANCER INSTITUTE

Global Cancer Research and Control Seminar Series

The National Cancer Grid, India -
Eliminating Disparities in Cancer Care

Tuesday, July 13, 2021
9:00 a.m. ET



Prof C S Pramesh
Director, Tata Memorial Hospital &
Convener, National Cancer Grid, India

cancer.gov/globalhealth @NCIGlobalHealth

CGH 10 YEAR ANNIVERSARY

“

Global health is important because “cancer knows no borders” and it’s important to unite institutions across the globe to advance cancer research through collaboration and publicly accessible data representative of the diversity of people and cancers.




HENRY RODRIGUEZ
Director, Office of Cancer Clinical Proteomics Research, NCI

CGH 10 YEAR ANNIVERSARY

Global Cancer Conversations

Join Dr. Satish Gopal as he chats with key leaders about their views on significant past events, the current state, and achievements in global cancer research and control.

Episode 1:
Harold Varmus, M.D.



CGH 10 YEAR ANNIVERSARY

“

I work in global health because everyone in the world deserves to live up to their maximum potential, and health is the essential foundation to everything.



SANDRA L. SAN MIGUEL
Center to Reduce Cancer Health Disparities, NCI

CGH 10 YEAR ANNIVERSARY

CGH 2021-2025 Strategic Plan

(from establishing to evolving a center; from integrating to prioritizing cancer in global health)

2011

...we have recently established the NCI Center for Global Health, which will develop an appropriate research strategy to help incorporate cancer control into global health programs; foster relevant research activities throughout the NCI's own extramural and intramural divisions; and work closely with the many potential collaborators who have displayed an interest in shared objectives.

2021

To fulfill President Biden's exhortation to "end cancer as we know it," it will be necessary to reduce cancer morbidity and mortality globally...As the Center for Global Health prepares to enter its second decade, the Center has developed an updated 5-year strategy to address these issues and to renew the NCI's commitment to a leadership role in global cancer research and control.

COMMENTARY | POLICY

Integrating Cancer Control into Global Health

Harold Varmus* and Edward L. Trimble

+ See all authors and affiliations

Science Translational Medicine 21 Sep 2011:
Vol. 3, Issue 101, pp. 101cm28
DOI: 10.1126/scitranslmed.3002321

New Online

Views 7,278

Citations 0

Altmetric 70

Comments 1

Viewpoint

August 6, 2021

Cancer as a Global Health Priority

Satish Gopal, MD¹; Norman E. Sharpless, MD¹

» Author Affiliations | Article Information

JAMA. Published online August 6, 2021. doi:10.1001/jama.2021.12778

CGH 2021-2025 Strategic Plan goals

Research

Support innovative, impactful research that (a) addresses key scientific issues in global cancer control and/or (b) leverages unique or unusual scientific opportunities afforded by collaboration with global partners.

Research training

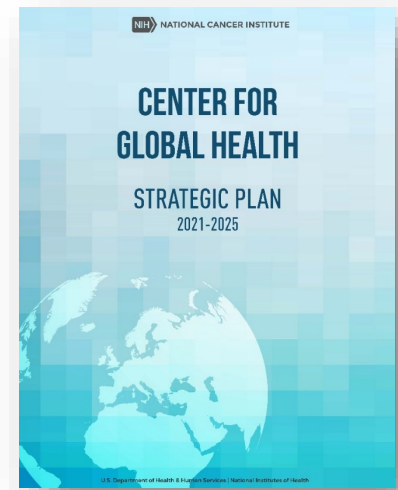
Support cancer research training that enables equitable, impactful global scientific collaboration.

Dissemination

Promote the integration of current scientific knowledge into global cancer control policies and practice.

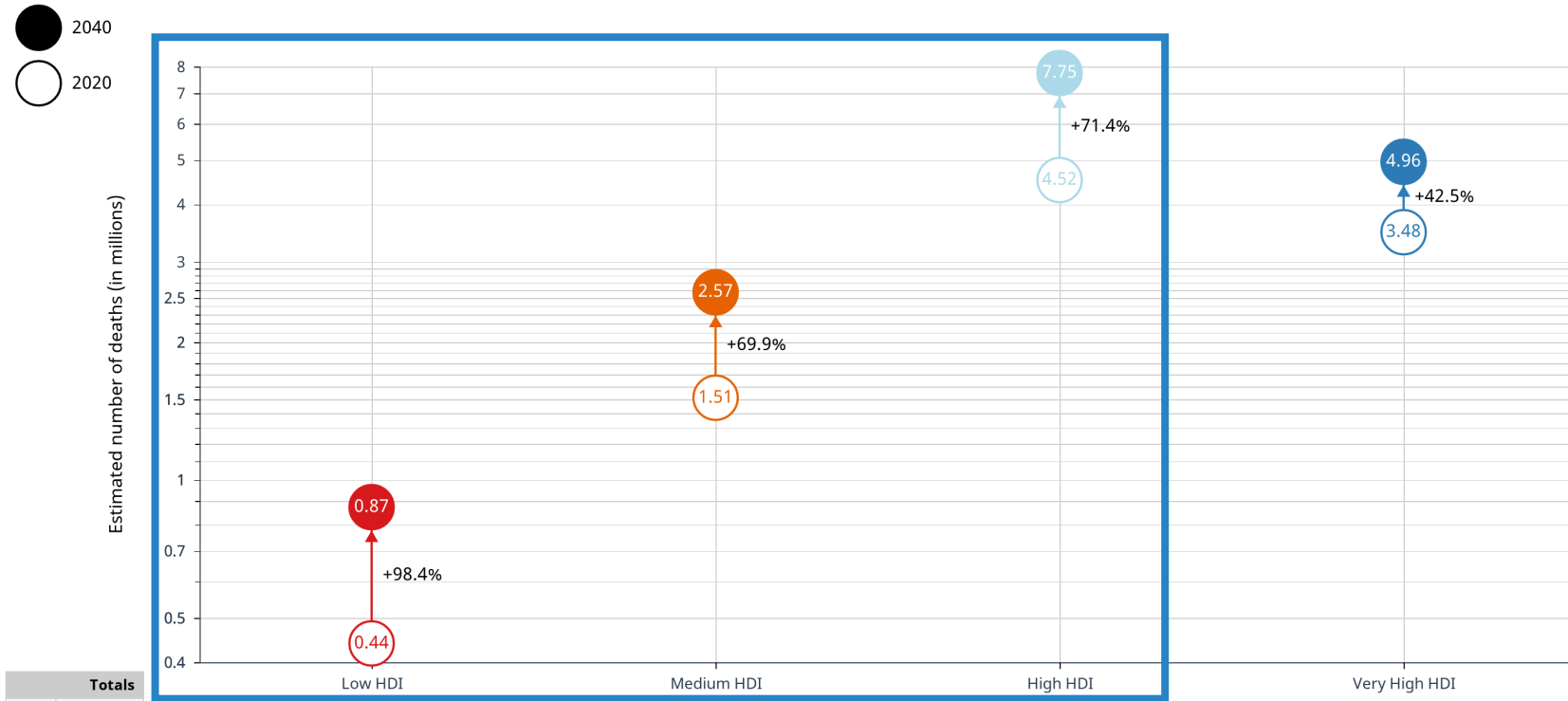
Partnerships

Represent the NCI and promote its engagement with key partners in global cancer research and control.



LMICs projected to have 69% of global cancer deaths by 2040 (without COVID and based solely on demographic changes)

Estimated number of deaths from 2020 to 2040, Both sexes, age [0-85+]
All cancers



Totals	
2020	9 953 671
2040	16 149 447

~27,270 global cancer deaths/day in 2020
~10,200 global COVID deaths/day currently

IARC - All Rights Reserved 2020

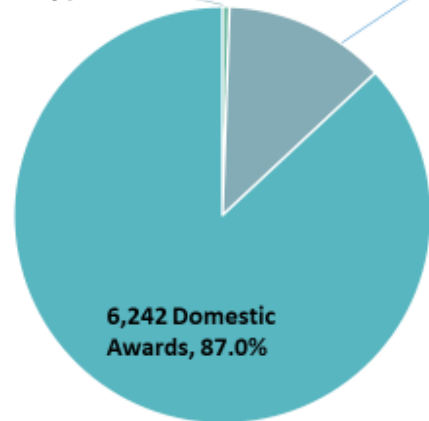
International Agency for Research on Cancer
World Health Organization

NCI extramural global portfolio *(overall and over time)*

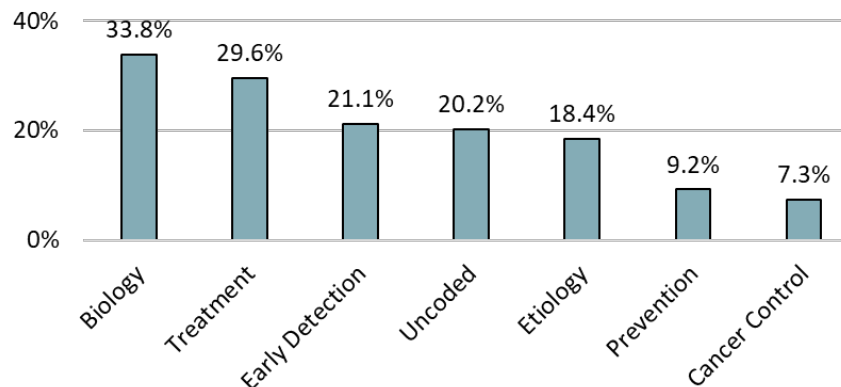
2020

39 Direct International Awards, 0.5%, \$29.3M

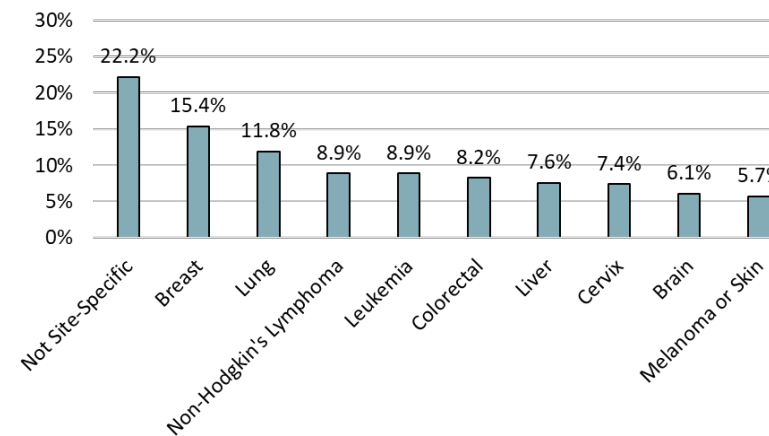
898 Foreign Component Awards (incl. supplements), 12.5%, \$893M*



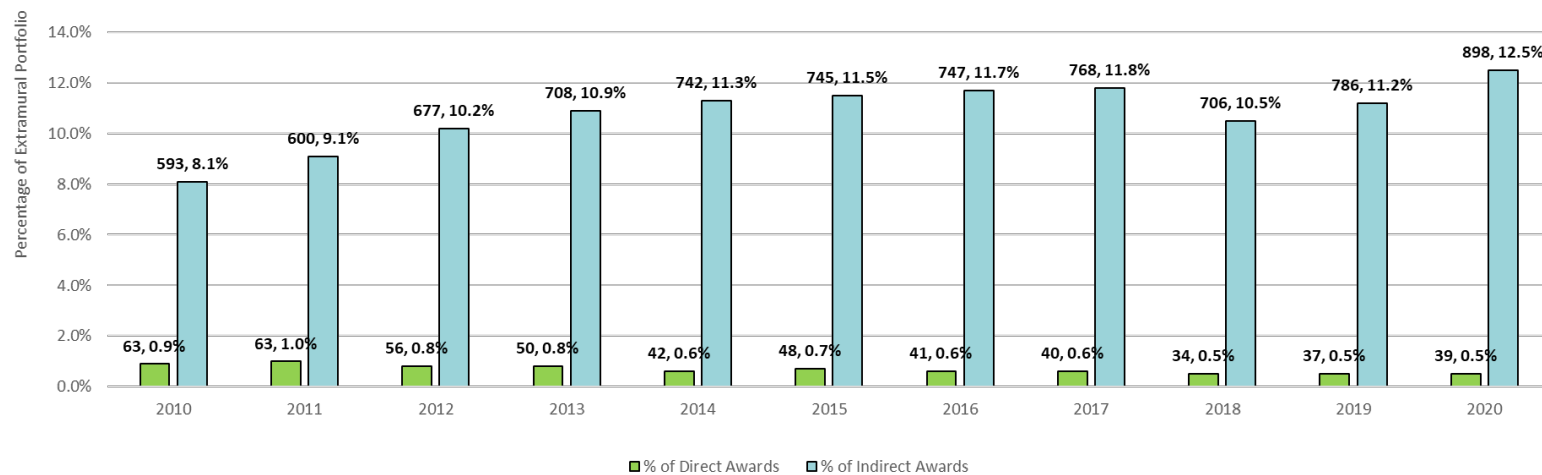
Common Scientific Codes



Cancer Sites



2010-2020 trends



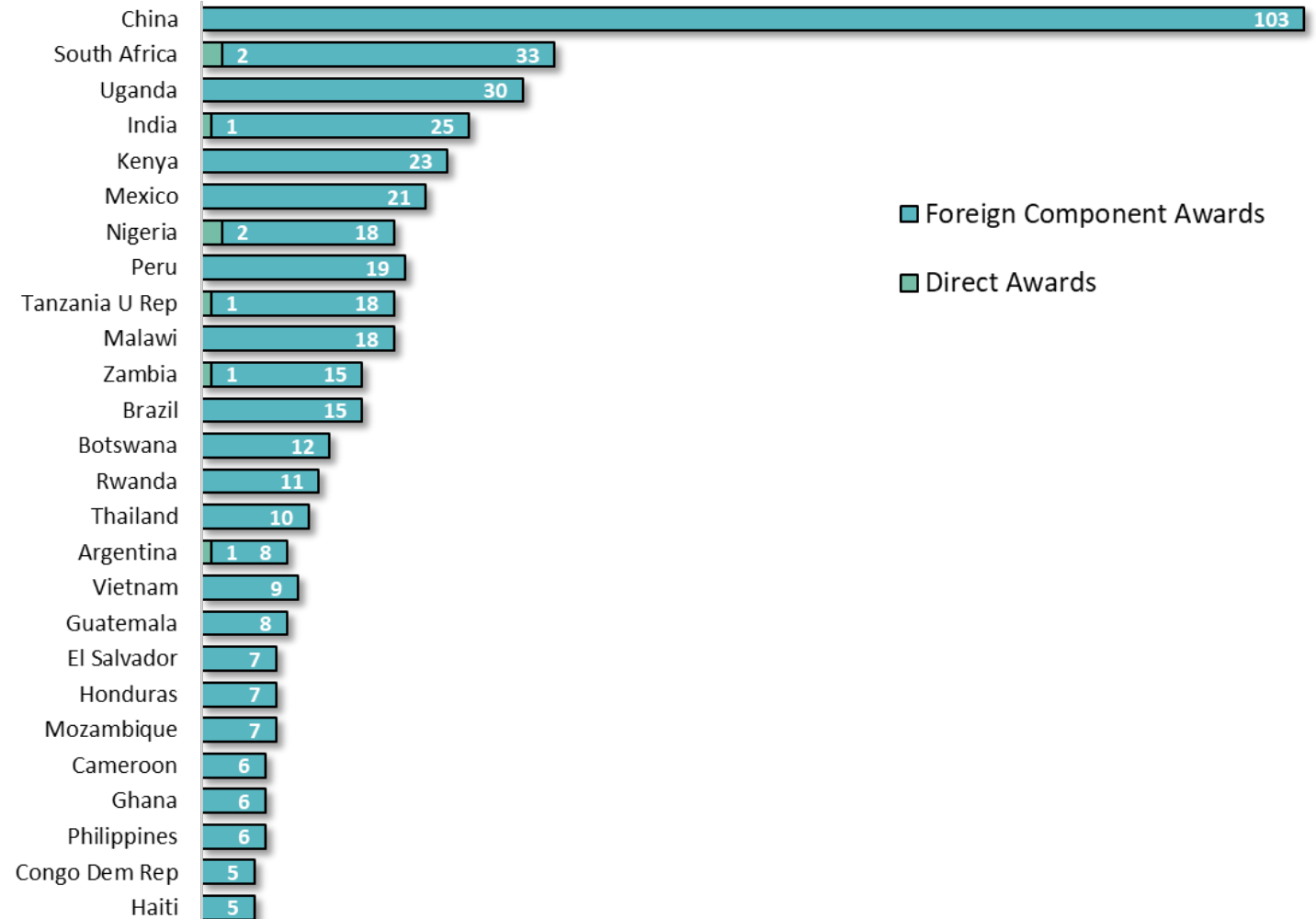
NCI extramural global portfolio 2020 *(geographic and income level distribution)*

	Extramural Grants
East Asia & Pacific	276
Europe & Central Asia	510
Latin America & Caribbean	63
Middle East & North Africa	30
North America (Canada only)	194
South Asia (4 countries)	26
Sub-Saharan Africa	108

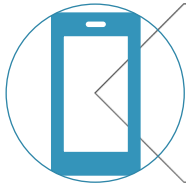
	Extramural Grants
High Income	737
Upper Middle Income	191
Lower Middle Income	96
Low Income	55

Legend
100+ Projects
50+ Projects
30+ Projects
10+ Projects

LMIC Awards

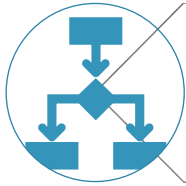


CGH 2021-2025 Strategic Plan research themes and programs



Accelerate technology development for global cancer control.

- Cancer Prevention, Detection, Diagnosis, and Treatment Technologies for Global Health (RFA-CA-21-030)
- Notice of Special Interest: Innovative Molecular Analysis Technologies for Low-Resource Settings Globally (NOT-CA-21-025)
- Harnessing Data Science for Health Discovery and Innovation in Africa (RFA-RM-20-015/016/017/018)
- Mobile Health: Technology and Outcomes in Low- and Middle-Income Countries (PAR-19-376)
- Cancer Prevention, Diagnosis, and Treatment Technologies for Low-Resource Settings SBIR/STTR (PA-18-801/18-802)



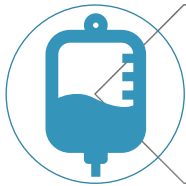
Accelerate global cancer implementation science.

- Tobacco Cessation, HIV, and Comorbidities in LMICs (RFA-CA-20-037)
- Dissemination and Implementation Science for Cancer Prevention and Control in Low-Resource Environments (NOT-CA-20-025)
- Implementation Science for Cancer Control in People Living with HIV in Low- and Middle-Income Countries (RFA-CA-21-056)



Understand and address global cancer health disparities.

- Administrative Supplement Opportunity to Support Global Cancer Stigma Research (NOT-CA-21-026)
- Administrative Supplement to Stimulate or Strengthen Global Cancer Health Disparities Research (NOT-CA-20-032)



Increase support for cancer clinical trials in LMICs.

- Supplements to Promote Clinical Research Studies on Pediatric Burkitt Lymphoma in Low- and Middle-Income Countries (PA-16-086)



Increase understanding of cancer etiology and biology through global collaboration.

- Intramural collaborations with CCR/DCEG investigators
- Household air pollution multi-country intervention trial through Global Alliance for Chronic Diseases

CGH

- Research Programs and Initiatives
- Funding for Research and Training
- Resources +
- Global Health Events +
- Global Cancer Conversations

About NCI Center for Global Health

- Strategic Plan
- CGH Future Directions
- Global Cancer Research Story
- Contact CGH
- What We Do
- CGH Staff**
- Fellowship Opportunity

CGH Spotlight Blog

Patti Gravitt, Ph.D., M.S., Deputy Director, Center for Global Health

Patti E. Gravitt, Ph.D., M.S., joined NCI as Deputy Director of the Center for Global Health in July 2021. In this role she leads implementation science efforts and provides scientific and programmatic direction across our research, training, partnership, and dissemination goals.



Patti Gravitt, Ph.D., M.S.
Deputy Director, Center for Global Health

Dr. Gravitt is a molecular epidemiologist whose research in human papillomavirus and cervical cancer spans the translational spectrum from the natural history of genital infection across the lifespan to the translation of evidence-based prevention tools to low- and middle-income countries. Her efforts have contributed significantly to the evidence base regarding the efficacy of alternative cervical cancer screening strategies, being among the first to show an increase in screening coverage afforded by self-collected sampling and HPV testing and the relatively poor performance of visual inspection methods where intensive international technical assistance and training are not available.

As an extramural researcher, Dr. Gravitt’s NIH-funded research included the study of cervical cancer prevention in Peru’s Loreto region in the Amazon rainforest. In addition, the study identified approaches to engage health providers and the community in education, screening, and treatment. Most recently, Dr. Gravitt led a team of interdisciplinary scientists and screening implementers to use a systems-thinking approach to the design, implementation, and evaluation of WHO-recommended, HPV-based screening algorithms. Through this work, she led the development of the Integrated Systems Praxis for Implementation Research (INSPIRE) methodology, which leverages systems thinking and participatory action research for shared decision-making and context adaptation of cancer control programs.

Dr. Gravitt earned her Ph.D. in Epidemiology from Johns Hopkins University Bloomberg School of Public Health and her M.S. in Biology from University of North Carolina, Charlotte. In addition, she serves on several WHO working groups related to HPV and cervical cancer elimination.

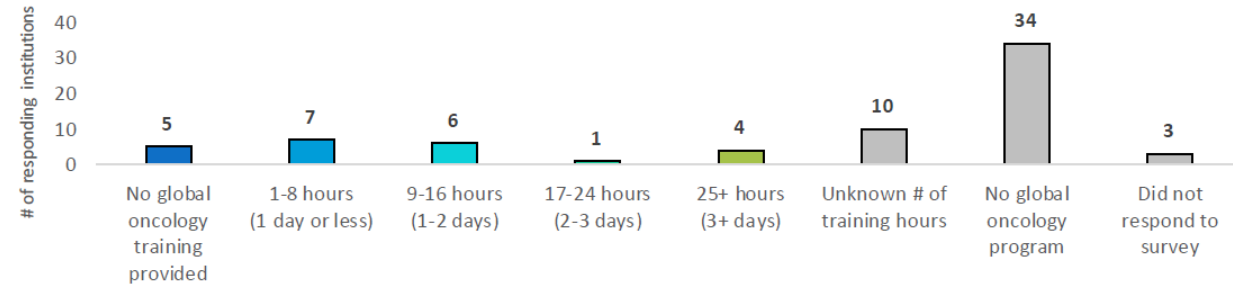
Posted: July 6, 2021

New D43 awards to address identified gaps in institutional global cancer research training

Limited dedicated global cancer research training at NCI-designated cancer centers per 2018 survey despite major growth in global oncology activities

27 of 33 NDCCs provide some level of global oncology training to trainees	11 of 33 NDCCs provide at least 8 hours of training in global oncology (Fig. 10)	17 of 33 NDCCs reported that trainees complete global oncology rotations outside of the U.S.	17 of 33 NDCCs reported enrolling trainees from LMICs	15 of 33 NDCCs reported engaging with non-enrolled trainees in LMICs through activities such as capacity building
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Figure 10. Hours of training within global oncology programs



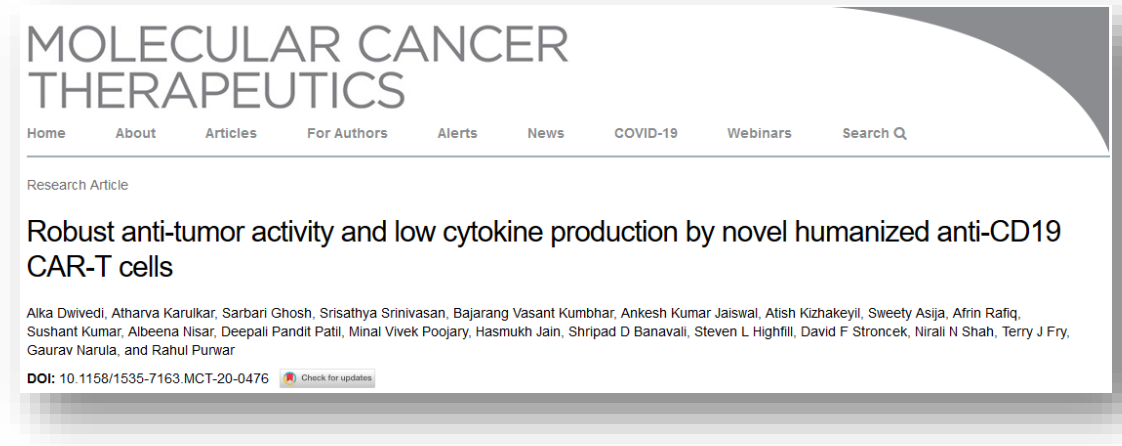
New NCI D43 teams in Senegal, Malawi, Ghana, Mali



CGH 2021-2025 Strategic Plan research training programs

- Strengthening Institutional Capacity to Conduct Global Cancer Research (RFA-CA-20-031)
- International Research Scientist Development Award (PAR-21-104/105)
- Emerging Global Leader Award (PAR-19-051/098)
- Cancer Research Training Travel Awards for LMIC Investigators (extramural)
- Short-Term Scientist Exchange Program (intramural)

Short-term scientist exchange program supporting cellular therapy collaborations between CCR and Indian investigators



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- **World Cancer Leaders' Summit – October 25-26**
- **African Organization for Research and Training in Cancer virtual meeting – November 5-10**
- **London Global Cancer Week – November 18**

Upcoming items

cancer.gov/globalhealth
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