

Global Training for Research and Equity in Cancer (GlobTREC)

Center for Global Health (CGH)

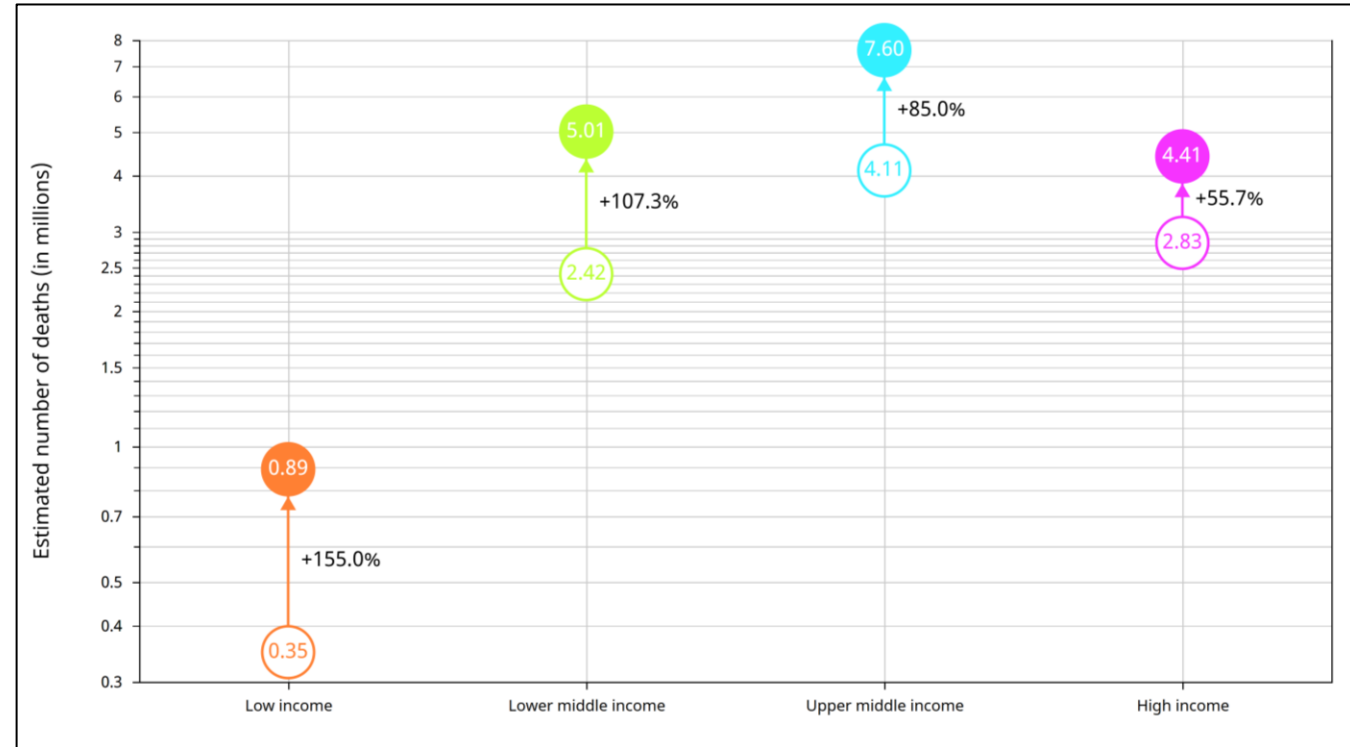
Center for Cancer Training (CCT), Office of HIV/AIDS Malignancy (OHAM)

Office of Cancer Centers (OCC), Center for Cancer Health Equity (CCHE)

RFA re-issuance concept presented by Sudha Sivaram, NCI CGH

Increasing need for global cancer research training

- **Most cancer deaths worldwide occur in low- and middle-income countries (LMICs)**
 - 71% in 2022 → 75% in 2050
- **Global cancer research training creates opportunities to:**
 - Address global burden
 - Generate new knowledge and approaches
 - Inform domestic inequities
- **Reflecting this:**
 - Many partnerships exist between LMIC institutions and NCI-designated cancer centers
 - Interest is increasing among early career researchers although dedicated institutional training resources remain scarce



Global increases in cancer deaths between 2022 and 2050 by World Bank income classification

Global Training for Research and Equity in Cancer (GlobTREC)

- 1st sustained NCI ***institutional*** global research training program
- Used D43 International Research Training Grant mechanism
 - Fogarty International Center HIV D43 model with >25 years investment to develop global US and LMIC scientific leadership for HIV
- First phase: 2 receipt dates with 8 awards (US contact PIs and LMIC MPIs)



GlobTREC 1st Phase Evaluation

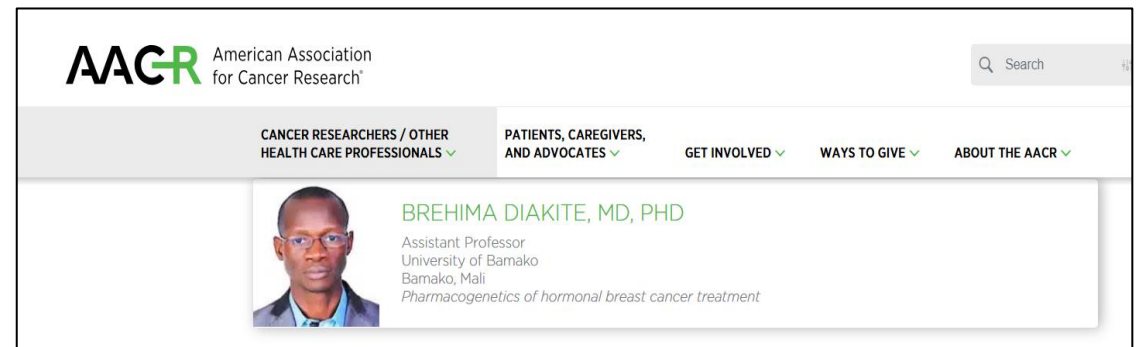
- **Successful new program despite pandemic delays**
- **Clear interest and demand**
 - 52 unique applications with 15% overall success rate
 - >30% success rate for analogous domestic NCI T32 institutional training programs
 - High competition for few training slots
 - E.g., 51 Ugandan applicants for 2 PhD slots
- **Successful training across diverse cancer topics**
- **Researchers excel after training**
- **Nascent community of practice fostered connections with other training programs**
- **Panel recommended continuation and expansion with suggestions for improvement**

Examples of career development award successes for GlobTREC trainees



The screenshot shows the NIH RePORTER interface for a project titled "Use of Peripheral Blood Mononuclear Cells Mitochondrial DNA Content to Detect Hepatocellular Carcinoma in Hepatitis B Virus Infected Nigerians." The project number is 1K43TW012589-01. The contact person is ADISA, RAHMAT ADETUTU, who is the PI/Project Leader. The awardee organization is the COLLEGE OF MEDICINE, UNIVERSITY OF LAGOS. A small profile picture of Dr. Rahmat Adisa is visible in the top right corner of the project details section.

NIH K43 grant awardee Dr. Rahmat Adisa



The screenshot shows the AACR BIGCAT profile for Dr. Brehima Diakite, MD, PhD. He is an Assistant Professor at the University of Bamako in Bamako, Mali. His research focus is on the pharmacogenetics of hormonal breast cancer treatment. The AACR logo and navigation menu are visible at the top of the page.

AACR BIGCAT awardee Dr. Brehima Diakite

GlobTREC RFA re-issuance goals

Continuation from 1st phase

- Support institutional research training and career development
- Address diverse training needs as defined by PIs across cancer continuum
- Strengthen individual and institutional research capacity
- Provide mentored research experiences
- Support transitions to research independence
- Strengthen partnerships between academic institutions and governmental / non-governmental organizations

Evolution in 2nd phase

- Increase leadership for LMIC institutions / investigators as contact PIs
- Expand eligibility to include upper middle-income countries / institutions
- Increase opportunities for US trainees working in LMICs
- Enhance network coordination by changing D43 International Research Training Grant → U2R International Research Training Cooperative Agreement

Justification for the RFA

RFA justification

- Address a specific unmet need
- Assure investigators of dedicated NCI support
- Support a cohort of grantees
- Coordinate and encourage collaboration across network to share learning and resources
- Allow specialized review

U2R mechanism justification

- PIs retain responsibility for the project
- NCI staff partner with PIs to support and optimize capacity building efforts
 - Common deliverables and shared resources
 - Data sharing
 - Coordination with other NIH/NCI initiatives
 - Professional development and networking
- Mechanism with global research training track record for NIH Common Fund and Fogarty initiatives

Proposed budget

Mechanism	Clinical Trial	Awards	Years	Direct Costs	Year 1 Total Costs
U2R	No	12	7	\$1.10M / year	\$1.18M / year
Proposed changes		D43 FY21-26		U2R FY26-32	
Direct costs/ award/ year		\$250K		\$275K (+10%)	
Receipt dates/ cohorts		2		3 (+50%)	
Total awards		8		12 (+50%)	
Total years		6		7 (+17%)	
Total budget		\$10.8M		\$17.8M (+65%)	

**Annual increase over current funding levels in proposed reissuance would primarily begin in FY28 with awarding of a 3rd cohort of awards.*

BSA Subcommittee Feedback

- **Specify Plan for Program Evaluation**

- Will develop an evaluation framework with quantifiable metrics to capture research outputs, trainee engagement, and career development over time as program matures

- **Specify NCI role and U2R Coordination**

- Will collect and share training resources across network and potentially beyond
- Will complement GlobTREC learning with other curricular content (e.g., leadership training)
- Will identify training gaps that might be addressed by NCI and partners (e.g., ASCO, AACR)

- **Ensure LMIC ownership and commitment**

- Will allow LMIC contact PIs and institutions in reissuance
- Will require documentation of LMIC institutional commitment and sustainability plans

GlobTREC: A flagship NCI global training initiative

- Advance NCI commitment to train the next generation of scientists
- Attract the best talent from the US and around the world to global cancer research careers
- Develop and support a global community of early career scientists

