
MISSION

C-THAN will support the development and commercialization of a pipeline of Point-of-Care Technologies designed to meet the clinical needs of people who live with HIV/AIDS in low- and middle-income countries.

Supporting HIV/AIDS Needs in Communities at Highest Risk

C-THAN is one of the five partners in the National Institutes of Health Biomedical Imaging and Bioengineering (NIBIB)'s Point-of-Care Technologies Research Network (PoCTRN).

C-THAN facilitates the development and commercialization of a pipeline of point-of-care technologies critical for improved management of HIV/AIDS-infected individuals in low- and middle-income countries, with an emphasis on sub-Saharan Africa. C-THAN incorporates clinical and user needs in the development process while providing expertise and resources to address early barriers to commercialization and implementation.

Range of technologies will include tests for detecting infection and monitoring of HIV/AIDS and its common fatal comorbidities including tuberculosis, non-tuberculous mycobacteria, hepatitis B, hepatitis C, and HIV-related malignancies.

We leverage collaborations established by Northwestern University in Africa over the past 17 years, particularly in Nigeria, South Africa, Mali, and Tanzania.

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**The Center for Innovation
in Point-of-Care Technologies
for HIV/AIDS
at Northwestern University
(C-THAN)**

**WORKING TOGETHER TO DEVELOP
A PoCT PIPELINE FOR HIV/AIDS**

Northwestern
University



GOALS

- To support and sustain the development of a pipeline of Point-of-Care Technologies (PoCT) promoting high priority topics of NIH HIV/AIDS research (Notice Number: NOT-OD-15-137), including:

Reducing HIV incidence by improving screening, detection, treatment monitoring, and HIV drug resistance detection

Diagnosing HIV-associated comorbidities including cancer, tuberculosis, non-tuberculous mycobacteria, hepatitis B, and hepatitis C

Reducing health disparities by developing testing technology for underserved community settings

Training workforce to translate PoCT from Research & Development to implementation

- To build biomedical research and clinical capacity for local development, manufacturing, and maintenance of PoCT for low resource settings

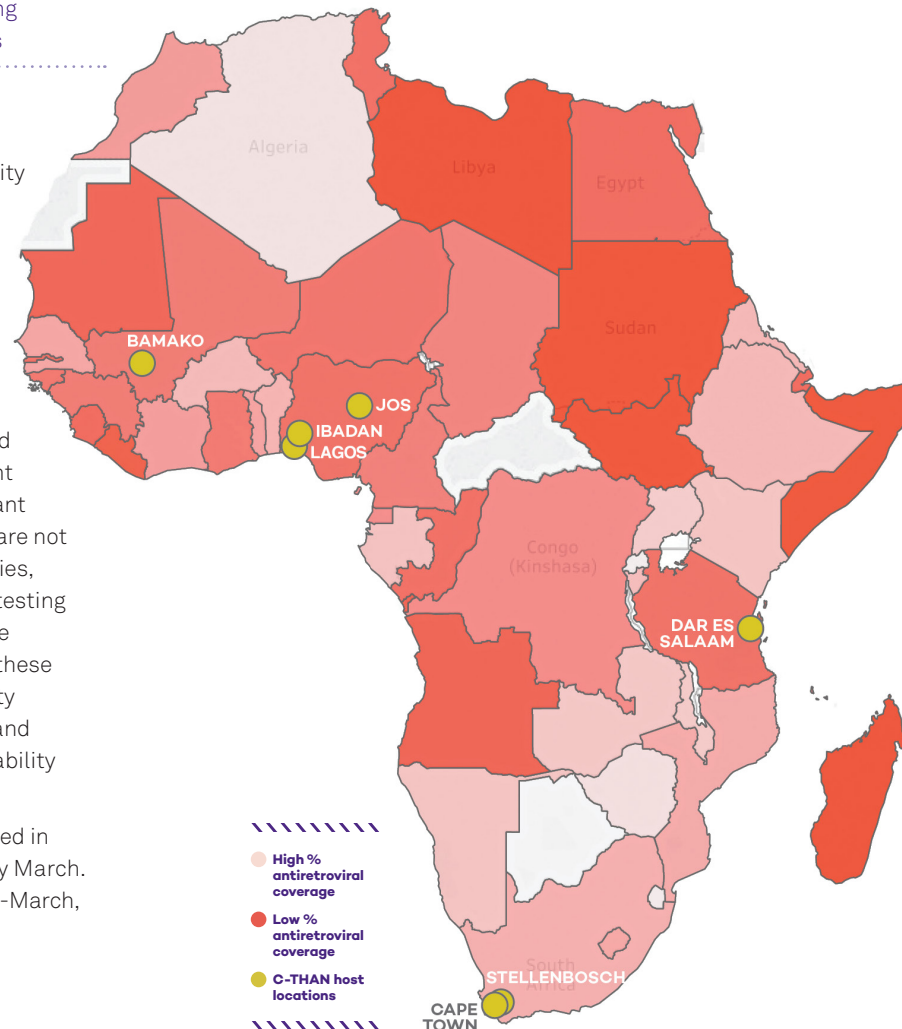
FUNDING OPPORTUNITIES

Every year of the five-year project, technology development and clinical evaluation grants will be awarded \$50,000 to \$100,000 for HIV/AIDS and co-morbidities-related assay/device development for project timeframes of six to 12 months. Relevant technologies considered for funding include but are not limited to: in vitro diagnostic assays or technologies, treatment-related diagnostic technologies, self-testing technologies, technologies that improve or enable PoC test performance, and clinical evaluation of these a clinical need of people living with HIV, operability in locations with limited medical infrastructure, and simplicity to operate, durability, and manufacturability at low cost with low-cost disposables.

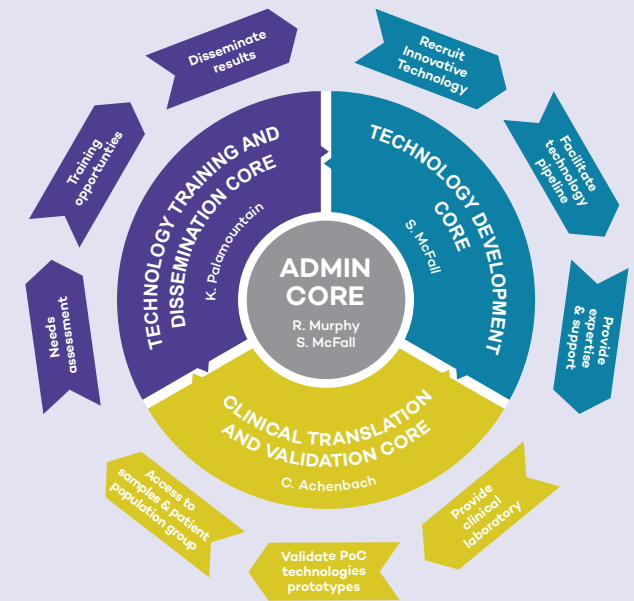
Solicitation for proposals for 2019 will be published in mid-January with the letter of intent due in early March. Invitations for full proposals will be issued by mid-March, and full proposals will be due mid-May.

SCOPE OF WORK

- Assessment of unmet clinical needs in PoC testing for HIV/AIDS and its comorbidities
- Collaborations with relevant physicians, researchers, and engineers
- Development of essential technical, clinical, industrial, and regulatory partnerships
- Clinical testing of prototype PoC devices in the field
- Creation of training opportunities for technology developers, evaluators, and other stakeholders



C-THAN CORES + RESOURCES



C-THAN PRODUCT DEVELOPMENT CYCLE

