Cancer Research at NCCU: Building Capacity and Partnerships

2018 Partnerships to Advance Cancer Health Equity July 23, 2018

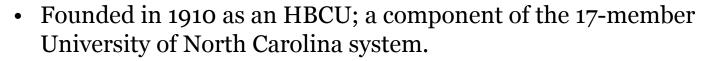
Session: "Maximizing Institutional Research Capacity Through Building Relationships and Collaborating Within the Institution".



Dr. Kevin P. Williams, Dr. M. Ricardo Richardson and Dr. Deepak Kumar

North Carolina Central University







 Strong commitment to training students who pursue degrees in STEM, and Health Disparities research.



Houses two signature biomedical research institutes: the Julius L. Chambers Biomedical Biotechnology Research Institute (JLC-BBRI, est. 1998) and the Biomanufacturing Research Institute and Technology Enterprise (BRITE, est. 2008).









Discover what's Central to you.

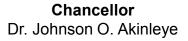
Strong Leadership Support



Dr. Johnson O. Akinleye



Dr. Eun Park



ProvostDr. Felecia Nave

Associate Provost/Dean for Research & Sponsored Programs
Dr. Eun Park

BBRI Director Dr. Deepak Kumar



Dr. Deepak Kumar



Dr. Felecia M. Nave

BRITE DirectorDr. Hernán Navarro



Dr. Hernán Navarro



Cancer Research Program North Carolina Central University

- Basic and Translational Research
- Outreach and Community Engagement
- Education and Training



NCCU Cancer Research Program: Milestones

U56: NCCU-BBRI/UNC-

LINEBERGER PARTNERSHIP IN CANCER RESEARCH

(Harewood K; Earp S)

P20: PARTNERSHIPS TO ELIMINATE DISPARITIES IN CENTER FOR **CANCER OUTCOMES**

(White S; Skinner C)

P20: NCCU EXPORT

EXCELLENCE

(Harewood K:PI)

R25: NCCU-WFU BIOMEDICAL

SCIENCES BRIDGE PARTNERSHIP

(Howlett A: PI)

NCCU Cancer Research

Program

BRITE

1998

BBRI

2001

2002

2002

2003

2004

2006











NCCU Cancer Research Program: Milestones

DOD: NCCU/BBRI-

Duke/Urology Partnership

in Prostate Cancer

Research

(Richardson R: PI)

U54

(Richardson R;

Earp S: Pls)

INBS PhD

U54 Renewed **Komen GTDR** (Williams KP: PI) **P20**

(Williams KP; Patierno S: PIs) (Kumar D: PI)

RCMI U54

NCCU-Duke "CTSI"

(Calhoun F: PI)

2007

2010

2012

2015

2015

2016

2017

2018

Duke Clinical & Translational



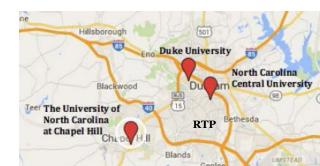


















NCCU Cancer Research Program: 2018

NCCU Cancer Research Program

Drug Discovery (DD):

Gordon Ibeanu Rob Onyenwoke John Scott Alfred Williams Kevin Williams Weifan Zheng

Cancer Biology (CB):

Ricardo Richardson
Kevin Williams
Deepak Kumar
Xiaoxin Chen
Delores Grant
Jodie Fleming
Sean Kimbro
Somnath Mukhopadhyay
Antonio Baines
Xiaohe Yang
TinChung Leung
Rob Onyenwoke

Community Outreach and Cancer Education (COCE)

Jonathan Livingston Seronda Robinson Cherise Harington Amber Burgin LaHoma Romocki Carla Oldham Wendy Heck-Grillo John Sollers

Cancer Working Group:

Ricardo Richardson Kevin Williams Deepak Kumar Faye Calhoun Jonathan Livingston Xiaoxin Chen



NCCU-UNC LCCC U54 Partnership Objectives

To expand research collaborations that spans the two institutions

To train students and junior/ midlevel faculty in multidisciplinary cancer research aimed at reducing cancer disparities

To expand and consolidate programs of community outreach and education



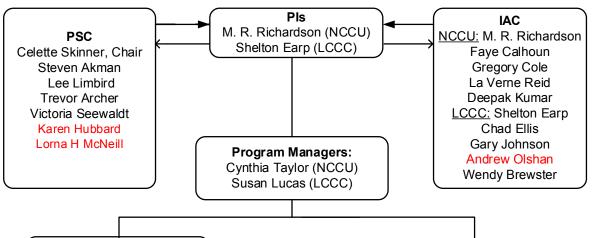
NCCU-LCCC PARTNERSHIP IN CANCER RESEARCH



Karen Hubbard, PhDProfessor of Biology
City College of New York



Lorna H. McNeill, PhD, MPH
Associate Professor & Chair
Department of Health Disparities
University of Texas
MD Anderson Cancer Center





Andrew Olshan, PhD Professor Department of Epidemiology LCCC/UNC-CH

Projects

Full Project 1

Jodie Fleming (NCCU) Keith Burridge (LCCC)

Full Project 2

Lahoma Romocki (NCCU) Vijay Sivaraman (NCCU) Jennifer Smith (LCCC)

Full Project 3

ClarLynda Williams-DeVane (NCCU)
Melissa Troester (LCCC)

Pilot Project 1

Cherise Harrington (NCCU) Laura Linnan (LCCC)

Pilot Project 2

Xiaoxin Chen (NCCU) Michael Ben Major (LCCC)

Outreach

John J. Sollers (NCCU) Cherise Harrington (NCCU) Laura Linnan (LCCC) feronica Carlisle (LCCC-CHE

Veronica Carlisle (LCCC-CHE) Amber Burgin (NCCU-CHE)

Research Education

Wendy Heck-Grillo (NCCU) LaHoma Romocki (NCCU) Laura Linnan (LCCC) Temitope Keku (LCCC)

Histopathology

Xiaoxin Chen (NCCU) Christopher Ryan Miller (LCCC)



P20CA202924:

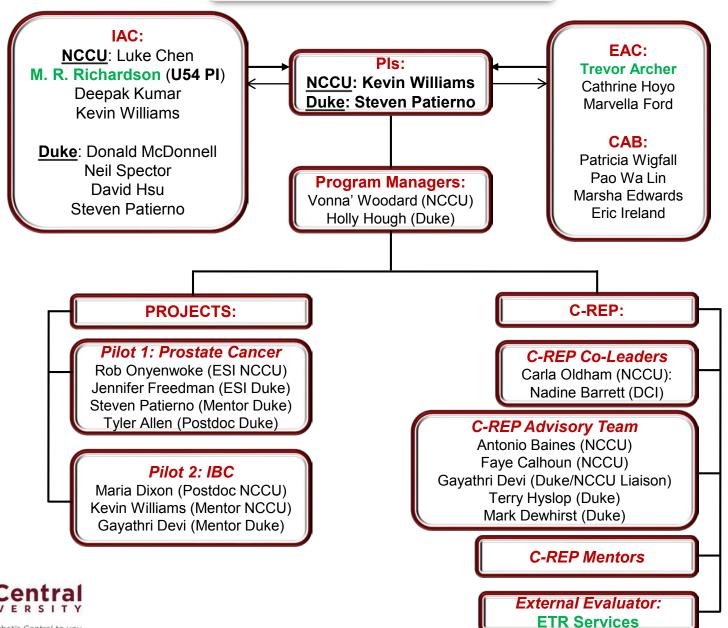
NCCU-DUKE Cancer Disparities Translational Research Partnership



- Admin Core
- Cancer Research Pilot Projects
 - Prostate Cancer
 - Inflammatory Breast Cancer
- Cancer Research Education Program (C-REP)



P20 Structure



Discover what's Central to you.

P20: NCCU-Duke C-REP Translational Immersion Experience Program Experience Program

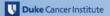
Duke and North Carolina Central Universities
Cancer Research
Education Program
(C-REP)



A postdoctoral fellow in Dr. Steven Patierno's laboratory in the Department of Medicine at Duke University.

Fostering careers in cancer disparities research by increasing participation of underrepresented groups in translational science





A program funded by the National Cancer Institute



- Clinical Trial Accrual
- Biospecimen Banking
- Drug Discovery



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WOULD YOU BENEFIT FROM?

- Hands-on experience in industry, clinical trials operations, and translational cancer disparities research and community engagement?
- Enhancing your graduate experience with exposure to translational research, high-throughput screening, and biobanking?
- Travel funding for two scientific conferences (Health Disparities Conference and another conference of your choice)
- Additional \$2,000 (\$1,000 for your mentor and \$1,000 for you) per year for two years toward research expenses?
- Learning skills for career development, networking, and successfully navigating the mentor/ mentee relationship?





The C-REP program is a two-year program and partnership between Duke University and North Carolina Central University (NCCU).

Eligibility Requirements

- Be a 3rd, or 4th year doctoral student at Duke
 OR a 2nd, 3rd, or 4th year doctoral student at
 NCCLI.
- Be from a traditionally underrepresented group
 Commit approximately 10 hours or less per
- month as a C-REP Scholar

 Permission of your dissertation mentor/advisor

Broaden your graduate education by exploring the world of translational health disparities research.

To apply, contact: Duke Graduate Students

Holly Hough, PhD: holly hough@duke.edu

NCCU Graduate Students
Vonna Woodard: <a href="https://www.woodard.google.googl

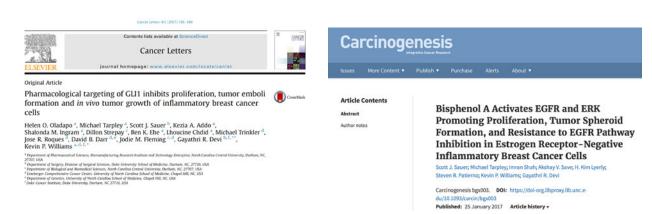
Application Deadline: May 11, 2018

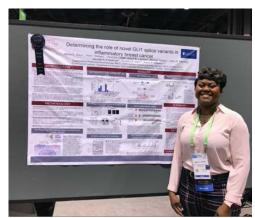




P20: Development Activities

- Mentor-mentee training Workshops- All
- Pathway to Independence Grant Workshop at Duke –
 P20 ESIs: R21 submission in June 2018
- Presentations at AACR and GMaP conferences
- Attend CRCHD Professional Development Workshop
- Joint Publications





Dr. Maria Dixon, Postdoc P20 Pilot Project 2



P20: NCCU - Duke Inter-Institutional Resources

NCCU/BRITE: Benefits to Duke

- Adjunct Faculty NCCU
 Pharm Science: Dr. Gayathri Devi
- Access for DCI Investigators to BRITE Screening Core
- BRITE Drug Discovery Collaborations with Duke Labs:
 - G. Devi
 - D. Hsu
 - D. McDonnell
 - S. Patierno/J. Freedman
- Access to NCCU Graduate Students
 - co-mentoring/research

Duke/DCI: Benefits to NCCU

- Duke Cancer Institute: Drs. Kevin Williams & Deepak Kumar, (Associate members)
- Duke IBC Colloquium: K.
 Williams & J. Fleming (members)
- Duke PATH 786: Translational Aspects of Pathobiology (K. Williams, Lecture)
- Access to Duke Cores
- PhD/Postdocs access to Duke Investigators/mentors
- DCI support for 50% of postdoc in each pilot



Complementary Strengths of **U54** and **P20** Partnerships

U54

- Partner LCCC/UNC
- Research Basic Science and Social Determinants
- NCCU Basic Science Focus
- Education Undergrads
- Resources LCCC & BBRI Cores



P20

- Partner DCI/Duke
- Research Translational
- NCCU Drug Discovery Focus
- Education –PhD/Postdocs
- Resources Duke & BRITE Cores





Discover what's Central to you.

Mutual Benefits of **U54** and **P20** Partnerships

U54

Benefit to NCCU

- Access to LCCC Cores/Public Health Expertise
- Adjunct appointments at LCCC
- NCCU undergraduates access to research programs

Benefit to LCCC/UNC-CH

- Access to NCCU UG students
- Access to BBRI/BRITE Cores
- UNC undergraduates access to summer internships in NCCU labs





P20

Benefit to NCCU

- Access to Duke Cores/Biobank/Clinical Expertise
- Mentoring PhD, Postdocs & Faculty
- Adjunct appointments at DCI
- Access to Translational/Clinical **Education Courses/Workshops**

Benefit to DCI/Duke

- Access to NCCU graduate students
- Access to BRITE Cores/Drug **Discovery Expertise**
- Access to Drug Discovery courses





Seminars supported jointly by P20 and U54

"Development of Precision Medicine Pipeline in Colorectal Cancer to Guide Therapy"
by

Shiaowen David Hsu, MD, PhD

William Dalton Family Assistant Professor of Cancer Genomics
Division of Medical Oncology
Center for Genomic and Computational Biology
Duke Cancer Institute
Duke University Medical Center

Wednesday, November 1, 2017

BBRI Auditorium

North Carolina Central University

4:00 p.m.

Refreshments will be served prior to the seminar

Co-Sponsored by NIH NCI P20 & U54 Cooperative Agreement Grants

Contact: Dr. Kevin Williams 530-7766 kpwilliams@NCCU.EDU
Dr. M. Ricardo Richardson 530-6421 mrrichardson@NCCU.EDU

"A Role for Gene-Environment Interaction in Health Disparities"

Bernard Kwabi-Addo, Ph.D.

Associate Professor Department of Biochemistry and Molecular Biology Howard University

> Wednesday, April 4, 2018 1:00 - 2:00 pm BBRI Auditorium 202

Pizza and Refreshments will be served prior to the seminar

Jointly sponsored by NCCU-LCCC U54 and NCCU-Duke P20 Partnerships.

For information please contact: Kevin Williams or M. Ricardo Richardson at 919-530-6421/



NCCU Komen Graduate Training in Disparities Research (GTDR)

NCCU Breast Cancer Focus Group:

Kevin Williams Jodie Fleming Sean Kimbro Xiaohe Yang John Scott Providing training to PhD students at NCCU with a focus on Community-Based Participatory Research.

- Trainees meet with patient advocates
- Learn human subjects research and IRB protocols
- Survey design and focus groups
- Planned, facilitated and hosted IBC "listening" forum at Women's Health Awareness Day
 - April 7th at NCCU



Maria Dixon, PhD (NCCU)



Nadine Barrett, PhD (Director, Office of Health Equity, DCI, Duke)



Women's Health Awareness Day at N.C. Central





GTDR16377604



Discover what's Central to you.

RCMI Center for Health Disparities Research (RCHDR)

MISSION

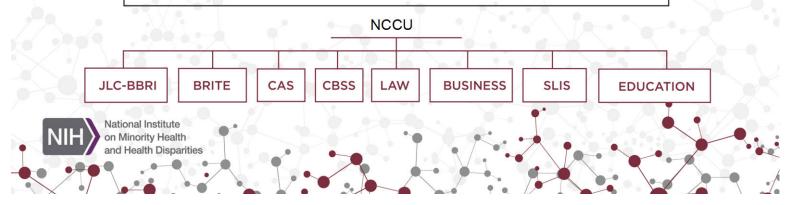
Develop and strengthen the research infrastructure at NCCU to conduct cutting edge health disparities research and foster the next generation of minority biomedical researchers.

BJECTIVES

Enhance the research capacity at NCCU within the areas of basic, behavioral and translational biomedical research:

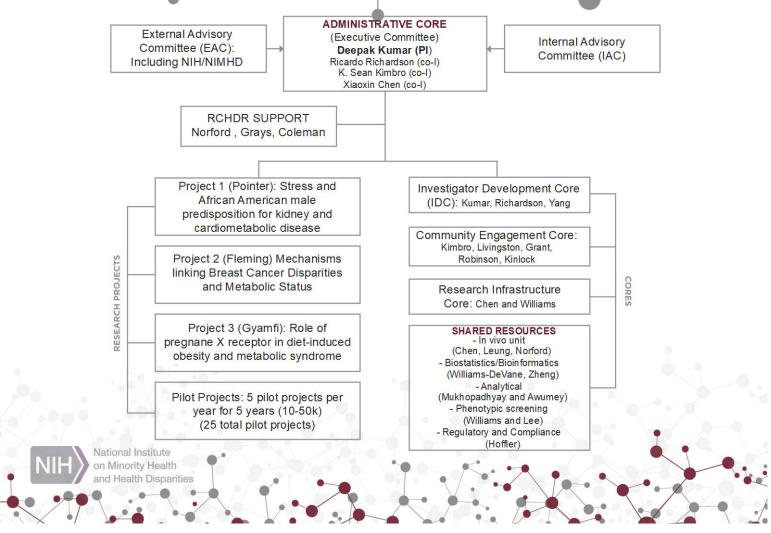
Diversify the biomedical research workforce and to prepare successful extramurally funded health disparities researchers at NCCU:

Promote a collaborative environment for interdisciplinary research and establish sustainable relationships with neighboring research and community-based organizations to advance cutting edge health disparities research at NCCU:



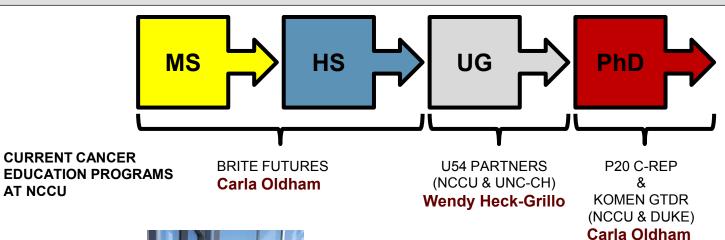


RCMI Center for Health Disparities Research (RCHDR)





Cancer Education: Achieving Program Integration at NCCU











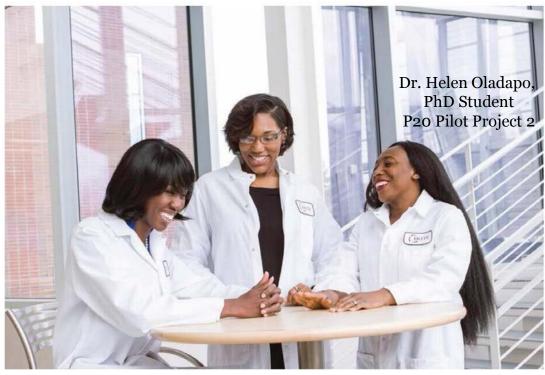
AT NCCU

Support for NCCU INBS PhD Program

PhD Program started in 2012

First at NCCU since 1964





Elena Arthur, Rasheena Edmondson and Helen Oladapo (from left) are set to become N.C. Central University's first Ph.D. graduates in 53 years. They're getting doctorates in integrated biosciences during commencement for graduate and professional students on Friday. - N.C. Central University

EDUCATION

May 2017 ceremony putting NCCU back in the Ph.D.-creation business

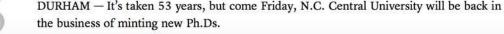


BY RAY GRONBERG

rgronberg@heraldsun.com



MAY 09, 2017 5:53 PM





Thank You

Questions?

mrrichardson@nccu.edu kpwilliams@nccu.edu dkumar@nccu.edu

