The HU RCMI Program

Biomedical Infrastructure for Health Disparities Research

Funded by the National Institute on Minority Health and Health Disparities (NIMHD), National Institutes of Health (NIH)
SPEAKER DISCLOSURE

I have had no financial interests or relationships with a commercial product, service, technology interests or programs in the past 12 months.

I have no conflicts of interest to disclose.
Research Centers in Minority Institutions

Funded By:
• NIH/NIMHD ($10,055,894)

Project Period:
• July, 01, 2014 – March 31, 2019

Role of RCMI at Howard University:
• Infrastructure support for Health Disparities research

RCMI Implementation at Howard University:
• Core facilities
• Pilot project support
• Collaborations support
• Professional development
RCMI Program Objectives...

To provide critical core facility support for
  i. computational biology & bioinformatics
  ii. imaging
  iii. proteomics research

To stimulate collaborative research involving HU faculty via
  i. pilot project program
  ii. Team science training
  iii. enhanced faculty utilization of RTRN and GHUCCTS resources.

To provide professional development opportunities for faculty and Post-doctoral fellows
  i. seminars and workshops
  ii. mentoring for junior faculty.
The RCMI ‘Toolbox’...

**Infrastructure for the direct research support—core resources**
- Computational Biology & Bioinformatics support (CCBB)
- Imaging support (molecular, in vivo, ultrastructural)
- Proteomics support (Bio-analytical Proteomics Core Facility)

**Infrastructure to stimulate research**
- Collaborations & Partnerships Key activity
- Professional Development Key activity
- Collaborative Pilot Projects Program

**Infrastructure to provide accountability**
- Program Evaluation
HU RCMI Impact: 2013-2018

People
Productivity
Programs
### Year-3 Outcome Comparisons (2017-2018)

<table>
<thead>
<tr>
<th>Measurable Entity</th>
<th>Projected Outcome</th>
<th>Actual Outcome</th>
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<tbody>
<tr>
<td>No. of Projects</td>
<td>56</td>
<td>82</td>
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<tr>
<td>No. of Publications</td>
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<td>No. of Presentations</td>
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<td>No. of Grants funded*</td>
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<tr>
<td>No. of Grants submitted</td>
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Collaborations and Partnerships
Objectives...

Key Activity Director: Carla Williams, Ph.D.


2. Enhanced collaboration among Core facilities.

3. Enhanced access to RCMI Translational Research Network (RTRN) and GHUCCTS collaboration resources.
RCMI Professional Development
Specific aims ...

Key Activity Directors: Pamela Carter-Nolan, Ph.D. & Dexter L. Lee, Ph.D.

1. To provide professional development seminars and workshops to HU faculty and post-doctoral fellows.

2. To provide mentoring for junior faculty recipients of the RCMI Pilot Project awards.

3. To provide mentorship training for mid-level and senior faculty
Pilot Project Program (P3)...

Key Activity Director: Georges Haddad, Ph.D.

Pilot seed grant awards for collaborative research projects in the investigation of diseases that disproportionately impact minority and disadvantaged populations.
Pilot Project Program Plan...

- Project Period – two years
- Award Maximum - $50,000/year
- Open to full-time faculty
- Collaborative efforts that involve at least two investigators from different disciplines
Center for Computational Biology & Bioinformatics...

Key Activity Director: William Southerland, Ph.D.
The Imaging Core Facility...

Key Activity Director: **Paul C. Wang, Ph.D.**
Bioanalytical-Proteomics Core Facility...

Key Activity Director: Sergei Nekhai, Ph.D.
Key Activity Director: *Suzanne Randolph, Ph.D. (Maya Tech, Corp.)*

- To document program activities, structures and processes
- To assess the extent to which proposed processes and structures are being implemented as planned
- To assess the extent to which the key activities of the HU RCMI are interacting to achieve the proposed outcomes
Administrative Core...

Key Activity Director: *Kisha Riddick*
The RCMI Program Administrative Supplements
RCMI Health Disparities Research Training Supplement...

Funded By:
• NIH/NIMHD - Award $226,531

Project Period:
• July, 08, 2015 – March 31, 2016

Role of RCMI Supplement:
• Provide increased training/exposure opportunities for medical/dental students to incorporate health disparities research into their professional development career plans.

RCMI Supplement Implementation:
• Faculty-based workshops
• Health disparities research webinars
• Health disparities simulation workshops
Research Centers in Minority Institutions

**RCMI Imaging Supplement...**

**Funded By:**
- NIH/NIMHD - Award $193,826

**Project Period:**
- April 1, 2014 – March 31, 2015

**Role of RCMI Supplement:**
- Relocation of a 7T MRI Machine from Children’s National

**RCMI Supplement Implementation:**
- Site preparation
- Movement of scanner
- Installation
**Funded By:**
- NIH/NIMHD - Award $193,792

**Project Period:**
- April 1, 2016– March 31, 2017

**Role of RCMI Supplement:**
- Develop HU Clinical Research Data Repository.

**RCMI Supplement Implementation:**
- Hardware Resources
- Software Resources
- Security Protocols
RCMI Faculty Development Supplement...

Funded By:
- NIH/NIMHD - Award $403,156

Project Period:
- April 1, 2016 – March 31, 2017

Role of RCMI Supplement:
- Provide professional development experiences for HU junior faculty.

RCMI Supplement Implementation:
- Grant writing workshops & seminars
- Research mentoring
- Discipline-based conference participation