Hampton University Fall Institute 2022

“Digital Solutions in Academic Affairs for the Number One Student Experience in America”

*NIH Center Planning Grant: Implications for Faculty Development*

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Hampton University & Mount Sinai School of Medicine Partnership in Cancer Genetics and Genomics Research

Funded by National Cancer Institute
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NCI Purpose of the PACHE (P20 Grant)

- To Increase MSI participation in Cancer Research and research training enterprise.
- Produce more competitive grant applications from underrepresented scientists.
- Increase competitive research capacity of MSIs.
- Promote research partnerships between National Cancer Centers (CCs) and MSIs.
- Develop more-effective outreach and education programs that will have an impact on underserved populations.
- Prepare institutions for the CPACHE (U54 Collaborative Center grant)
  - Only MSIs with existing P20 grants can apply
  - Joint grant between NCI-Designated Cancer Center and MSI
  - Funding range 10-15M total costs over 5 years

NCI: National Cancer Institute
CPACHE: Comprehensive Partnerships to Advance Cancer Health Equity
Why All Disciplines Are Needed

• NIH Values Team-Science/Multidisciplinary Approaches

• Health Equity Research Includes:
  • Biological/Genetic Determinants
  • Psychosocial/Socioeconomic Determinants of Health *(Social & Behavioral Scientists; Business, Pharmacy)*
  • Health Literacy & Education *(Education, Marketing, Journalism)*
  • Community Engagement/Outreach *(Education, Marketing, Foreign Languages, Nursing, Pharmacy, Physical Therapy, Journalism)*
  • Environmental (includes built environments, infectious disease, climate change) Determinants *(Physics, Atmospheric Sciences, Biology, Architecture)*
  • AI/Technology Biases *(Engineering, Physics, Computer Science, Mathematics)*
Establish a sustainable research collaboration between HU and TCI-ISMMS scientists, focused on cutting-edge genetics and genomics aspects of breast and prostate cancer, with special emphasis on minorities and disparities.

Conduct a needs assessment to understand research capacity building gaps for faculty at HU.

Leverage existing training and develop new educational initiatives in statistics, cancer research, genetics & genomics, health disparities, and CBPR.

Provide mentorship and professional development and facilitate cross-institutional collaboration aimed at increasing NIH-funded research success of HU faculty.
# Proposed Training Initiatives for the NCI-funded HU and TCI-ISMMS Research Partnership

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<tr>
<th>Existing Training Initiatives</th>
<th>New Training Initiatives</th>
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<tr>
<td>NHGRI-funded Clinical Research Education in Genome Science Short Course</td>
<td>Introduction to Biostatistics Virtual Seminar Series</td>
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<tr>
<td>Applied Statistics in Biological Systems Short Course</td>
<td>Statistical Programming Workshop in R</td>
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<td>Translational Epidemiology, Genetics &amp; Genomics, Biostatistics, Population Health &amp; Cancer Research Grand Rounds</td>
<td>Community-based Participatory Research Workshop</td>
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<td>Analysis of Large Healthcare Databases</td>
<td>Successful Strategies for NIH Grant Writing Workshop</td>
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<td>Introduction to Epidemiology</td>
<td>Race and Causality Seminar</td>
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Needs Assessment to Identify Research Capacity Building Gaps and Interest in the NCI-funded HU and TCI-ISMMS Research Partnership

We want to hear from you!

Scan the QR code to access the online needs assessment.

https://redcap.link/inquiry
Desired Outcomes

• Identify cohort of student & faculty researchers
• Provide HU Faculty Development Workshops
• Pair ESIs with Mentors
• Form HU-MSSM Research Teams
• Develop Innovative Research Projects and Intervention Strategies to reduce Cancer in Minority Populations
• Joint Publications and Proposals
• Funded CPACHE, RCMI and other NIH Center Grants
P20 Team

- PIs: Simone Heyliger, Ph.D. & Emanuela Tiaoli, M.D., Ph.D.*
- Co-PI: Neelam Azad, Ph.D.
- Education Core: Zina McGee, Ph.D., Marilyn Saulsbury, Ph.D., R.Ph., Emma Benn, Dr.PH.*
- Program Evaluator: Vera Campbell, Ph.D.
- Research Assistants: Angelo Zegarelli, BS* & Richa Deshpande, DDS*

- Pilot Project 1: Prostate Cancer & Proton Therapy in Black Males
  - HU PI: Marilyn D. Saulsbury, & Simone Heyliger
- Pilot Project 2: Development of Novel Drugs for TNBC (subject to approval by NCI)
  - HU PI: Dawanna White, Ph.D.

- Advisory Board: Oluwatoyin Asojo, Ph.D., Travonia Brown-Hughes, Ph.D., Cardinale B. Smith, M.D., Ph.D.*

* Mount Sinai School of Medicine
Thank You & Questions

• Dr. JoAnn Haysbert, Provost and Chancellor
• Dr. Pollie Murphy, Assistant Provost
• HU & MSSM Team
• Hampton University Faculty

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