

CURRICULUM VITAE: THOMAS V. FUNGWE, PHD, CFS, FACN4043 Sapling Way, ♦ Triangle VA 22172 ♦ (703) 943-8949 ♦ tfung2013@outlook.com**PERSONAL STATEMENT**

Dr. Fungwe is currently Associate Dean for Research, Institutional Assessment & Operations, Howard University College of Nursing and Allied Health Sciences. He was formerly Chair of the Department of Nutritional Sciences at Howard University following a 7year career at the United States Department of Agriculture's Center for Nutrition Policy as a Nutritionist, Program Analyst, Nutrition Evidence Analyst, and a combine total of over 28 years of teaching at the college and university level. He is a recipient of a USDA Award in recognition of his service and contribution to the enhancement of the development and promotion of dietary guidance that links the best evidence-based scientific research and education, 2010 and 2015. He holds a Masters' degree in Food Science/Technology and a PhD in Nutrition Sciences from Texas Tech University and a Fellow in two professional organizations. His doctoral dissertation featured prominently in the setting of the "UL" for molybdenum by the Food and Nutrition Board of the Institute of Medicine (IOM) and similar institutions in two continents. Dr Fungwe was an NIH postdoctoral fellow in Pharmacology at the Univ. of Tennessee HSC in Memphis. He later held faculty appointments in the College of Medicine, Univ. of Tennessee HSC; Biochemistry and Molecular Biology, Univ. of North Texas HSC; and Wayne State University. Since coming to HU, he has obtained the credentials of "Certified Food Scientist" (CFS) by the International Food Science Certification Commission of the Institute for Food Technologist, and a Fellow of the American College of Nutrition (FACN).

Prior to joining the USDA, Dr. Fungwe was Associate Professor and interim Chair of Nutrition at Alcorn State University in Mississippi. He was also, Associate Project Director to the USDA Lower Mississippi Delta Nutrition Intervention Research Initiative (Delta NIRI), a multidisciplinary team of researchers from key universities in the region and Pennington Biomedical Research Center, who conducted obesity, diabetes and hypertension prevention applying the community-based participatory approach. Dr. Fungwe has been Principal Investigator and Co-Principal Investigator and Program Director to NIH, USDA, and industry funded research projects. He has authored or co-authored over 45 scientific publications in areas covering food science, inflammation, toxicology, lipid metabolism, nutrient-gene interaction, diabetes, heart disease and obesity prevention. As a professor and research, he supervised thesis and dissertations.

As Associate Dean at HU, Dr. Fungwe continuous to Teach, provide Service to the University and Community, and remains active in the conduct of Research, Grants Study Sections, including the National Institute of General Medical Sciences-Special Emphasis Panel, the National Science Foundation-Graduate Research Fellowship Program, and the USDA Agriculture and Food Research Initiative. His current research interest is in the application of nutrigenomics in Personalized Nutrition in the prevention of chronic diseases, including other scholarly activities such as editorial board activities for several Journals including Journal of Nutrition, Nutritional Biochem, Journal of Lipids, Journal of Lipid Research, Biochim Biophysica Acta, International Journal of Nutrition and Food Science, Food Quality, Hormone and Metabolic Research, and the Journal of General Internal Medicine. He is on the editorial board of Current Research in Nutrition and Food Science Journal. He holds current memberships in several scientific organizations, including the American Society for Nutrition, Association of African Biomedical Scientists (Board Member and National Treasurer), and Instituteof Food Technologists. Other organizations he has associated with include the American Heart Association (Atherosclerosis Council and Nutrition, Physical Activity, and Metabolism Council), Association for Black Cardiologist and Association for Lipids & Atherosclerosis Res of Michigan.

EDUCATION

DEGREE	INSTITUTION	COURSE OF STUDY
Postdoctoral Fellowship	University of Tennessee Health Science Center	Pharmacology
Doctor of Philosophy (PhD)	Texas Technological University	Nutritional Sciences
Master of Science	Texas Technological University	Food Science
Bachelor of Science	Texas Technological University	Food Technology
Diplôme d'État d'agriculture	Collège National d'Agriculture, Cameroun	Tropical Agriculture

PROFESSIONAL EXPERIENCE

HOWARD UNIVERSITY**Associate Dean, Research, Assessment and Operations. CNAHS Sciences 2016-Present**

- ◆ Advises on and executes the program-level vision, strategy, key performance indicators, and goals as determined by the Dean of CNAHS.
- ◆ Collaborate with Associate Dean for Academic Affairs to conduct ongoing holistic evaluation of Research and program performance, as related to student outcomes, curriculum performance, budget, accreditation requirements, market demand, and external partnerships opportunities.
- ◆ Provides effective leadership to the college and cross-functional partners to achieve strategic goals.
- ◆ Serves as a member of the college leadership team and provides collaborative support and cooperation to other colleges and departments of the university.
- ◆ Facilitates the College Council's input in determining potential new degrees and ensuring existing degrees maintain the highest quality and relevancy and meet industry standards.
- ◆ Collaborates with key stakeholders to ensure accreditation requirements, program reviews, and other processes are met and performed for the continuous improvement of the college's activities.
- ◆ Works closely with the compliance and accreditation department to ensure compliance with national and state accreditation and licensure requirements.
- ◆ Partners with internal and cross-functional teams to achieve key performance indicators at the college and program levels for student outcomes and enrollment growth.
- ◆ Maintains partnerships at the national, state, and local levels, including with key professional and industry organizations, for example: community colleges and universities.
- ◆ Represents the college on education and matters at the university, state, and national levels.
- ◆ Promotes the college and HU through external engagement and thought leadership.
- ◆ Teaching, graduate student advising and College faculty research mentoring 2016 – present.
- ◆ Other duties and responsibilities as required & assigned.

HOWARD UNIVERSITY**Associate Professor and Chairperson, Department of Nutritional Sciences 2013 - 2016**

- ◆ Research Centre, Beltsville, MD.
- ◆ Collaborated with faculty members and administrators to align and achieve program objectives.
- ◆ Communicated clearly and effectively with colleagues and external stakeholders to further organizational goals.
- ◆ University wide Institutional Animal Care and Use Committee (IACUC) 2014 -Present
- ◆ University wide Research Advisory Committee 2015 - Present
- ◆ College of Nursing and Allied Health Sciences Grievance Committee (Chair) 2014 - Present
- ◆ College of Nursing and Allied Health Sciences Research Committee 2014 - Present
- ◆ College of Nursing and Allied Health Sciences Excellence Committee 2013 - 2016
- ◆ Merger Committee: Department of Nutritional Sciences and Department of Health, Human Performance and Leisure Studies. 2013 - 2015
- ◆ Teaching, undergraduate, and graduate Student Advising and faculty research mentoring 2013 – present.

Cross appointment - Geriatrics, School of Medicine, Howard University. 2015 - Present

U.S. DEPT OF AGRICULTURE – CENTER FOR NUTRITION POLICY AND PROMOTION —

Alexandria, VA: Nutrition Evidence Library Division

Nutritionist/Project Manager/Research Evidence Analyst, 2009 – 2013

- ◆ Lead Project Manager - Fatty Acids and Cholesterol Sub-Committee of the 2010 Dietary Guidelines Advisory Committee.
- ◆ Lead Analyst - Nutrition Education, conducting reviews with Technical Collaborative Committee (TEC) to inform Federal Stakeholders and FNS Children Nutrition programs.
- ◆ Lead Analyst - Dietary Patterns and Body Weight, Cardiovascular Disease, and Diabetes.
- ◆ Federal Nutrition Education publications - Insights and Systematic reviews.
- ◆ Development of the USDA Nutrition Evidence Based System.

- ◆ Maintained scientific research on dietary practices, nutritional requirements, evidence analysis, consumer knowledge, attitudes, and behavioral practices relevant to food and nutrition.

U.S. DEPT OF AGRICULTURE – CENTER FOR NUTRITION POLICY AND PROMOTION — Alexandria, VA

Nutrition Policy Analyst, 2006 – 2008

- ◆ Staff Coordinator - 2006 White House Childhood Obesity Task Force 1.
- ◆ Provided Nutritional Science support for projects that inform and support USDA nutrition policy and guidance and serve as the basis for nutrition promotion and education policies.
- ◆ Development and establishment of guidelines, policies and procedures including US Nutrient Food Supply, Healthy Eating Index, and US Food Plans.
- ◆ USDA Lead Scientist with the Federal Interagency Forum on Child and Family Statistics.

Released Report “America’s Children: Key National Indicators of Well-Being, 2009 – 2010,” highlighting key indicators of child health and diet quality.

- ◆ Collaboration with Agency Economists, to develop recipes and nutrient components for technical support systems and dietary data analysis.
- ◆ Published Insights and reports and research articles.

PRINCE GEORGES COMMUNITY COLLEGE — Largo, MD

Adjunct Professor of Nutrition, College of Health Sciences, Department of Health, and Physical Activity, 2007 – 2016

ALCORN STATE UNIVERSITY, MS.

Associate Professor, Interim Chair, Nutrition and Dietetics, 2004 – 2006

- ◆ Faculty for Center for Biotechnology.
- ◆ Faculty Senator

Courses Taught:

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|---------------------------------------|--------------------------------|
| ◆ Nutrition thru Life Cycle | Lipid Metabolism |
| ◆ Food Safety (HACCP/SERVE-Safe) | Carbohydrate chemistry |
| ◆ Maternal and Infant/Child Nutrition | Mineral metabolism |
| ◆ Food Science | Vitamins in Nutrition |
| ◆ Biotechnology | Advanced laboratory techniques |
| ◆ Introduction to Nutrition | Laboratory methods |
| ◆ Community Nutrition | Graduate research in Nutrition |
| ◆ Nutrition and Aging | Clinical Nutritional |
| ◆ Food Chemistry | Global health |

ALCORN STATE UNIVERSITY, MS

Associate Project Director, USDA-Delta Intervention Nutrition Research Initiative, 2004 – 2006

- ◆ Applied state-of-the-art nutrition tools to solve nutrition problems including obesity, blood pressure, and diabetes within the Delta region.
- ◆ Served as Co-Principal Investigator to USDA Public health and epidemiology funded research.
- ◆ Applied nutrition knowledge to prevent obesity and related co-morbidities in minority and underserved populations of the Mississippi Delta region.
- ◆ Developed cooperative research programs with other groups within the agency, other Federal agencies, State Agricultural Experiment Stations, and private institutions.
- ◆ Compiled and wrote biomedical research manual for local and international field application.
- ◆ Coordinated training of selected community members to serve as scientific and biological data collectors in anthropometrics, biochemical, clinical, and dietary information.
- ◆ Fostered collaboration with AREAS partners and research universities in Mississippi, Louisiana, and Arkansas.
- ◆ Worked with Agricultural Extension Staff and Co-PIs to research grants and administrators of children nutrition programs.

WAYNE STATE UNIVERSITY - Detroit, MI –A Professor, Nutrition and Food Science, 1997– 2004

- ◆ Managed NIH, USDA, and another institutional funded research.
- ◆ Prioritized and planned present, anticipated, and unexpected research requirements.
- ◆ Directed all research conducted in the Laboratory.
- ◆ Conducted research in the areas of cardiovascular disease, obesity, and associated risks.
- ◆ Planned and applied consumer-oriented research to develop goals, message strategies, concepts, approaches, techniques, and materials for improving consumer nutrition behaviors.
- ◆ Supervised undergraduate and graduate student research and lab personnel training in biological and epidemiological science research.
- ◆ Presented and published research findings at local, national, and international conferences.
- ◆ Reviewed all graduate student research proposals and plans of work in the department.
- ◆ Coordinated research conferences for discussion and publication of abstracts, related data and materials from other researchers, policymakers, and nutrition professionals.
- ◆ Mentored High School Science students in the STEM programs.

Administration:

- ◆ Graduate Chair, Department of Nutrition and Food Science,
- ◆ Approved all research reports and manuscripts for graduate students and postdoctoral scientists in assigned laboratory.

Teaching and Course Development:

- ◆ Developed Laboratory Manual for Advanced Lab Techniques in Nutrition and Food Science
- ◆ Developed Course materials and Manual for Advanced Workshop: Dairy Science and Technology.

MACOMB COMMUNITY COLLEGE, MIAdjunct Professor of Nutrition, Department of Biology, Division of Nutrition, 2003 – 2004

- ◆ Planned and delivered engaging lessons for college students to establish academic knowledge.
- ◆ Collaborated and coordinated with other faculty members and administrators to achieve goals.
- ◆ Ensured compliance with all relevant standards, policies, and procedures.

UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER, TXResearch Professor, Department of Biochemistry and Molecular Biology, 1993 –1996

- ◆ Developed effective Biochemistry workshops for graduate and medical students participated in team teaching. Regulation of LDL receptor.

UNIVERSITY OF TENNESSEE HEALTH SCIENCES CENTER — Memphis, TNAssistant Professor, Department of Pharmacology, 1992 – 1993

- ◆ Supervised laboratory personnel and implemented training for MD/PhD students in Lipid metabolism.
- ◆ Carried out research in the areas of liver perfusion, lipids and lipoprotein metabolisms, and CVD.
- ◆ Contributed to leadership and organization of Dallas/Ft Worth Lipid and Lipoprotein Club (Brown and Goldstein, members).

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Instructor, College of Medicine UT, 1990 – 1991

- ◆ Research - lipids and lipoprotein metabolisms in obesity and cardiovascular disease.

MENTORING OF STUDENTS: Directing Essays, Thesis & Dissertations:

- ◆ Transcriptional regulation of Lecithin-Cholesterol Acyltransferase (LCAT) - PhD
- ◆ Gene Chip Microarray analyses of inflammation related gene expression in response to hypertension and cholesterol/oxidized cholesterol supplementation in spontaneously

- ◆ Expression of C-Reactive Protein, Blood Pressure and serum lipids in cholesterol fed spontaneously hypertensive stroke prone models. MS
- ◆ Role of Nutrition in the prevalence of diabetes in an Arab-American population - MS
- ◆ Regulation of LCAT by fatty acids - MS
- ◆ HU Graduate Committee Membership Assignments (Thesis and Dissertation) 5 MS and 6 PhDs.
- ◆ Dissertations completed.
 - Vitamin D and Obesity - 2020
 - Health Effect of Pesticides in fruits - 2019
 - Revastatin and the Microbiota in MCI: Effect of *ApoE* genotype – 2019
- ◆ Dissertations work in progress.
 - Precision Nutrition and health disparities

PROFESSIONAL DEVELOPMENT AND TRAINING

Professional Development Activities:

- ◆ SAS, Statistical Analysis Systems, Rockville, MD
- ◆ Assessment platforms: Blackboard, ExamSoft, E*value
- ◆ Teaching Platforms: Blackboard, ZOOM, TEAMS
- ◆ CARES Compliance - Annual - present
- ◆ HIPPA Compliance – Annual - present
- ◆ ServSafe® Certification: Certified Food Safety Instructor,
- ◆ Recombinant DNA Training: Life Technologies, Rockville, MD 20850
- ◆ Faculty Leadership Training: University of Oklahoma Health Science Center, Norman, Oklahoma
- ◆ Computing Skills: PC and Macintosh platforms; MS word, Excel, Power point, Claris Draw, Adobe Acrobat, S {PSS; Statview, Web design (Frontpage), Bioinformatics
- ◆ Laboratory Animal Technologist: ALAAC Certified

Laboratory activity:

- ◆ Protein and Biochemical Analyses
- ◆ Spectroscopy
- ◆ Food quality - color texture & flavor characteristics
- ◆ Food Spoilage detection
- ◆ Testing involving analytical methodologies and instrumentation (HPLC, AA, UV, LC/MS, GC/MS)
- ◆ Transformation of plasmid into vectors
- ◆ Design primers (forward & reverse primers) and DNA sequencing
- ◆ Synthesis of cDNA by reverse transcriptase (RT-PCR)
- ◆ Purification and quantification of PCR product (cDNA)
- ◆ Purification of cDNA & RNA transcript from gel
- ◆ Isolation of total RNA from tissue and cells and Tissue Culture

PROFESSIONAL SERVICE

- ◆ Member Graduate Faculty Academic Affairs, HU
- ◆ Member DC/IFT and National
- ◆ American Association of University Professors
- ◆ Alternate Counsellor, Institute of Food Technology (IFT)
- ◆ Consultant Jackson Heart Study
- ◆ Consultant – Focus Group member, Helena Laboratories, Houston Texas
- ◆ Dairy Industry, Dean's Food, Plant Sanitation and Quality control.
- ◆ Agricultural Extension Service, Ministry of Agriculture, Cameroon
- ◆ American Heart Association
 - Atherosclerosis Council
 - Nutrition, Physical Activity, and Metabolism Council

- ◆ Board Member - Association of African Biomedical Scientists (National Treasurer)
- ◆ Institute for Food Science and Technologists (IFT) – Public Policy, Food Laws & Regulations Subpanel
- ◆ Association for Lipids and Atherosclerosis Research of Michigan (ALARM)
- ◆ American Association for the Advancement of Science (AAAS)
- ◆ American Society for Nutritional Sciences (ASN) – Current - Nutrition Science Council, Graduate research Council, International Nutrition Council

EDITORIAL ACTIVITY & BOARDMEMBERSHIP (past and present)

- ◆ American Society for Nutrition (**since 1990**). Global Council Member and Abstract Reviewer **2012-Present**. Member of the Global Nutrition Council.
- ◆ Academy of Nutrition and Dietetics
- ◆ In house Journal - Association of African Biomedical Scientists (AABS)
- ◆ Editorial Board - International Journal of Nutrition and Food
- ◆ Journal of Public Health
- ◆ Journal of Nutrition Education
- ◆ Journal of Nutrition
- ◆ Journal of Lipids
- ◆ Journal of Lipid Research
- ◆ Journal of Food Chemistry and Nutrition (Open Access)
- ◆ Biochim Biophysica Acta
- ◆ Journal of Food Quality
- ◆ Hormone and Metabolic Research
- ◆ Journal of Nutritional Biochemistry
- ◆ Journal of General Internal Medicine
- ◆ Nutrition Reviews

PROFESSIONAL DEVELOPMENT AND TRAINING

Professional Development Activities:

- ◆ SAS, Statistical Analysis Systems, Rockville, MD
- ◆ Assessment platforms: Blackboard, ExamSoft, E*value
- ◆ Teaching Platforms: Blackboard, ZOOM, TEAMS
- ◆ CARES Compliance - Annual - present
- ◆ HIPPA Compliance – Annual - present
- ◆ ServSafe® Certification: Certified Food Safety Instructor,
- ◆ Recombinant DNA Training: Life Technologies, Rockville, MD 20850
- ◆ Faculty Leadership Training: University of Oklahoma Health Science Center, Norman, Oklahoma
- ◆ Computing Skills: PC and Macintosh platforms; MS word, Excel, Power point, Claris Draw, Adobe Acrobat, Statview, Web design (Frontpage), Bioinformatics
- ◆ Laboratory Animal Technologist: ALAAC Certified

Laboratory activity:

- ◆ Protein and Biochemical Analyses
- ◆ Spectroscopy
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- ◆ Testing involving analytical methodologies and instrumentation (HPLC, AA, UV, LC/MS, GC/MS)
- ◆ Transformation of plasmid into vectors
- ◆ Design primers (forward & reverse primers) and DNA sequencing
- ◆ Synthesis of cDNA by reverse transcriptase (RT-PCR)
- ◆ Purification and quantification of PCR product (cDNA)
- ◆ Purification of cDNA & RNA transcript from gel
- ◆ Isolation of total RNA from tissue and cells and Tissue Culture

PROFESSIONAL SERVICE

- ◆ Member Graduate Faculty Academic Affairs, HU
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- ◆ American Association of University Professors
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- ◆ Consultant – Focus Group member, Helena Laboratories, Houston Texas
- ◆ Dairy Industry, Dean's Food, Plant Sanitation and Quality control.
- ◆ Agricultural Extension Service, Ministry of Agriculture, Cameroon
- ◆ American Heart Association
 - Atherosclerosis Council
 - Nutrition, Physical Activity, and Metabolism Council
- ◆ Board Member - Association of African Biomedical Scientists (National Treasurer)
- ◆ Institute for Food Science and Technologists (IFT) – Public Policy, Food Laws & Regulations Subpanel
- ◆ Association for Lipids and Atherosclerosis Research of Michigan (ALARM)
- ◆ American Association for the Advancement of Science (AAAS)
- ◆ American Society for Nutritional Sciences (ASN) – Current - Nutrition Science Council, Graduate research Council, International Nutrition Council

COMMUNITY SERVICE

- ◆ Feeding Tomorrow Scholarship Jury IFT. - Institute of Food Technology, Chicago.
 - ◆ Fairfax County Regional Science and Engineering fair: Category Judge – Biochem 2016-Present.
 - ◆ Howard University Research Day: Judge
 - ◆ HU Service Day faculty advisor
 - ◆ Agency Coordinator Combined Federal Campaign
 - ◆ Public Schools Science fairs
 - ◆ Annual Detroit Festival of Arts
 - ◆ Public demonstrations and nutrition lectures
 - ◆ Food Bank/Food distribution
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RESEARCH PANELS AND STUDY SECTIONS

- ◆ USDA Human Nutrition and Obesity Panel member (AFRI): 2009 – 2011
- ◆ Research Panel: Consumer-Level Food Loss Estimates and Their Use in the ERS Loss-Adjusted Food Availability Data. RTI, Durham, SC. Technical Bulletin No. (TB-1927) 123 pp, January 2011
- ◆ National Science Foundation (NSF)/American Society for Engineering Education (ASEE) PANELIST2006-2009 NSF Graduate Research Fellowship Program (GRFP)
- ◆ National Institute of General Medical Sciences, Special Emphasis Panel, Molecular - Biomedical Research Support, NIH). 2006 - 2008

RESEARCH IMPACT TO HUMAN NUTRITION AND HEALTH

- ◆ PhD Dissertation:

Research played a significant role in first ever decision by IOM to develop recommendations for the “UL” for molybdenum in infants, and children used in the development of current National Policy. My Dissertation work was used to establish the “UL” for molybdenum in children (Vyskocil and Viau, 2000), and limits of molybdenum as a pollutant in water by EPA. Impact of this research seen in its use by the following agencies:

- Food and Nutrition Board (FNB), Institute of Medicine (IOM): Dietary Reference Intakes for Vitamin A, Vitamin K, Arsenic, Boron, Chromium, Copper, Iodine, Iron, Manganese, molybdenum, Ni, Silicon, Vanadium, and Zinc (2002) the national Academic Press.
- European Commission, Health & Consumer Protection Directorate-General; Opinion of the Scientific Committee on Food on the Tolerable Upper Intake level of Molybdenum (Expressed on 19 October 2000). SCF/CS/NUT/UPPLEV/22 Final. 28 November 2002.
- Expert Group on Vitamins and Minerals: review of Molybdenum. EVM/00/09. RevisedAUG2002. Research also cited by the US Environmental Protection Agency to make Public Policy.
- ◆ Hatahet W, Fungwe TV. (2005). Obesity and cardiovascular disease risk factors are ethnicity based: a study of women of different ethnic backgrounds in southeastern Michigan. *Ethn Dis.* 15 (1 Suppl1): S1-23-5.
 - Recognized health disparities (ethnic-based) in cardiovascular risk.
- ◆ Co-authored the development and establishment of the first ever science – based dietary guidelines for the US population - 2010 Dietary Guidelines for Americans.
 - Spahn JM, Lyon J, Altman J, Blum-Kemelor D, Eve Essery, **Fungwe TV**, MacNeil P, McGrane MM, Obbagy JE, Wong YP. A Systematic Evidence-Based Review Methodology Employed by the 2010 Dietary Guidelines Advisory Committee to guide Federal nutrition policy. *JADA* 111 (4):520-523, 2011.

RESEARCH PROJECTS & Faculty Support

- ◆ NIFA Conference Grant (CoPI): Interprofessional Education and Practice Approach to address Nutrition and Prevention of Chronic Diseases College of Nursing and Allied Health Sciences Health Disparities Conference. **Submitted Spring 2020.**
- ◆ GUCCTS Grant (CoPI): Using Tele-Medical Nutrition Therapy to Address Diabetes-related Health Literacy in Blacks **Submitted Spring 2020**
- ◆ Research Collaboration HU and Delaware State: **Submitted Spring 2020**
- ◆ U.S Department of Labor (USDOL)’s request for proposals entitled Scaling Apprenticeships through Sector-Based Strategies. \$1,200,000.00 **Submitted, Nov 2018.**
- ◆ Faculty research: Collaborative Community based research – “Food for Medicine”. 2018
- ◆ Collaborative Investigator, GEMS study - Gene, Exercise, Memory, and Neurodegeneration in Blacks (II) – Cognitive Aging in Blacks – Role of Cardiovascular Risk Factors in Alzheimer’s disease and Related-Dementia. IRB-07-MED-41F: Sponsor: NIH (Dr. T. Obisesan PI).
- ◆ Up-regulation of Lipoprotein lipase in metabolic syndrome and chronic disease risk. Funded Oct 10, 2014, -2016.

- ◆ Building capacity for the recruitment, training, and retention of students in the MS/PhD – RD programs in Nutritional Sciences and Dietetics, (PI) - USDA-NIFA 2017 - 2021.
- ◆ Disparities in Prostate Cancer Risk: Interaction between Genotype and Dietary Lycopene (CoPI). Partnered with Human Nutrition Research Center (BHNRC). Department of Defense (DOD):
- ◆ Regulation of the Expression of LCAT (PI) Grant #HL0338 NIH
- ◆ Disparities in Prostate Cancer Risk: Interaction between Genotype and Dietary Lycopene (CoPI). Partnered with Human Nutrition Research Center (BHNRC). Department of Defense (DOD): a
- ◆ Regulation of the Expression of LCAT (PI) Grant #HL0338 NIH
- ◆ Obesity Abatement on College campus – Co-PI – (NAFEO:).
- ◆ Identifying Risk Factors and Developing Educational Strategies to Ameliorate Foodborne Diseases in Rural Mississippi. Co-PI. (USDA)
- ◆ Delta Intervention Nutrition Research Initiative (Delta-NIRI) Co-PI, Community Collaborative Participatory Research. (Project grant) > (Congressional/USDA)
- ◆ COMMUNITY SERVICE AWARDS: Support of Community Service: Identification of risk factors contributing to coronary heart disease in Minority populations in the local metropolitan area. (PI)
- ◆ Enhancing Pork Quality and Lipid Regulation in Finishing Pig fed Purslane Diet. Co – PI. (USDA)

PUBLICATIONS

Book Chapter:

- ◆ Fungwe TV. & S.P. Yang: Effects of Molybdenum on Reproduction and Molybdo/Copper enzyme activity in the female rat. In “Trace Elements in Man and Animals 6” Editors: Lucille S. Hurley, Carl L. Keen, Bo Lonnerdal and Robert B. Rucker. Plenum Press NY and London, 1988, page 619:
- ◆ Contributor: America’s Children: Key Indicators of Well-being 2009. Health Index #6 – Diet Quality.
-Federal Interagency Forum on Child and Family Statistics. 2010
<http://www.operationreach.org/ori/wp-content/uploads/2011/02/Americas-Children-2009-report1.pdf>

Publications that impact Federal and International Policy:

- ◆ E.E. Stoody, M.M. McGrane, P.C. MacNeil, J.M. Altman, T.V. Fungwe, J. Lyon, J.E. Obbagy, Y.P. Wong and J.M. Spahn. 2014. Dietary Patterns and Risk of Cardiovascular Disease: A Systematic Review. FASEB Journal 20(4) 628.14.
- ◆ Fungwe TV – Dissertation (1989) in: <http://jn.nutrition.org/content/133/1/236>.short Food and Nutrition Board (FNB), Institute of Medicine (IOM): Dietary Reference Intakes for Vitamin A, VitaminK, Arsenic, Boron, Chromium, Copper, Iodine, Iron, Manganese, molybdenum, Ni, Silicon, Vanadium, and Zinc (2002) the national Academic Press.
- ◆ Contributor to America’s Children: Key Indicators of Well-being. 2009. Health Index #6 – Diet Quality.
-Federal Interagency Forum on Child and Family Statistics. 2010
<http://www.operationreach.org/ori/wp-content/uploads/2011/02/Americas-Children-2009-report1.pdf>
- ◆ Spahn JM, Lyon J, Altman J, Blum-Kemelor D, Eve Essery, Fungwe TV, MacNeil P, McGrane MM, Obbagy JE, Wong YP. A Systematic Evidence-Based Review Methodology Employed by the 2010 Dietary Guidelines Advisory Committee to guide Federal nutrition policy. JADA 111 (4):520-523, 2011
- ◆ Mary McGrane, Fungwe, Thomas, Donna Blum-Kemelof, and Kellie O’Connell. Maternal Intake of Seafood: Omega-3 Fatty Acids and Infant Health: A Review of the Evidence, Nutrition Insight 46, U.S. Department of Agriculture, Center for Nutrition Policy, and Promotion. 2012.
- ◆ Mary McGrane, Fungwe, Thomas, Eve Essery Julie Obbagy and Joanne Sphan. (2011) Dietary Saturated fat and Cardiovascular health: A Review of the Evidence, Nutrition Insight 46, U.S. Department of Agriculture, Center for Nutrition Policy, and Promotion. 2011
- ◆ Fungwe, Thomas, Patricia Guenther, Wen Yen Juan, Hazel Hiza, and Mark Lino. The Quality of Children’s Diets in 2003-2004 as Measured by the Healthy Eating Index-2005, Nutrition Insight 43,

U.S. Department of Agriculture, Center for Nutrition Policy, and Promotion. 2009

- ◆ Guenther P, Juan WY, Lino M, Hiza HA, Fungwe T, Lucas R. Diet Quality of Low-Income and Higher Income Americans in 2003-04 as Measured by the Healthy Eating Index-2005. Nutrition Insight #42. U.S. Department of Agriculture, Center for Nutrition Policy, and Promotion. 2008. <http://www.cnpp.usda.gov/Publications/NutritionInsights/Insight42.pdf>
- ◆ Hiza H., Bente, L and Fungwe, T. Nutrient Content of the U.S. Food Supply 2005. U.S. Department of Agriculture, Center for Nutrition Policy, and Promotion. Home Economics Research Report No. 58. <http://www.cnpp.usda.gov/Publications/FoodSupply>, 2008. Also presented at conferences.
- ◆ Bente L., Hiza H., and Fungwe T. (2008). Dietary Fiber in the U.S. Food Supply. Power Point Presentation U.S. Department of Agriculture, Center for Nutrition Policy, and Promotion.
- ◆ <http://www.cnpp.usda.gov/Publications/FoodSupply/DietaryFiberPPT1-23-08.ppt#440>
Dietary Fiber in the U.S. Food Supply
- ◆ Hiza H, Fungwe T and Bente L. (2008). Trends in Dietary Fiber in the U.S. Food Supply; Sales of Grain Products. USDA, Center for Nutrition Policy, and Promotion Fact Sheet #2. <http://www.cnpp.usda.gov/Publications/FoodSupply/FiberFactSheet.pdf>
- ◆ Fungwe, TV, Bente L, and Hiza H. (2007). The Food Supply and Dietary Fiber: Its Availability and Effect on Health. Nutrition Insight 36. November 7, 2007. USDA Center for Nutrition Policy and Promotion. <http://www.cnpp.usda.gov/Publications/NutritionInsights/Insight36.pdf>
- ◆ Carlson A., Lino, M., & Fungwe T. (2007). The Low-Cost, Moderate-Cost, and Liberal Food Plans, (2007) (CNPP-20). USDA Center for Nutrition Policy and Promotion. <http://www.cnpp.usda.gov/Publications/FoodPlans/MiscPubs/FoodPlans2007AdminReport.pdf>

PEER REVIEW PUBLICATIONS

- 2021 Bedada FB, Ntekim OE, Nwulia EO, **Fungwe TV**, Nadarajah S, Obisesan, TO. (2021) *Exercise intervention increased FBXO32 and FOXO1 in a gender-dependent manner in Mild Cognitively Impaired African American*. Frontiers in Neuroscience. <https://doi.org/10.3389/fnagi.2021.641758>
- 2021 Hajri T, Zaiou M, **Fungwe TV**, Ouguerram K, Besong S. (2021) Epigenetic regulation of peroxisome proliferator-activated receptor gamma mediates high fat diet-induced non-alcoholic fatty liver disease. *Cells* 2021, 10, 1355. <https://doi.org/10.3390/cells10061355>
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- 2019 Onyeneho, K., Thompson, L., Okunji, P., Brown, G., & **Fungwe, T.** (2019). Barriers to Participation in Genomic Health Research by African Americans and Other Minority Populations: A Systematic Review (P04-116-19). *Current developments in nutrition*, 3(Suppl 1), nzz051.P04-116-19. doi:10.1093/cdn/nzz051.P04-116-19
- 2019 Fikru B. Bedada, Oyonumo E Ntekim, **Thomas V. Fungwe**, Julius S. Ngwa, Thomas O. Obisesan. FBXO32 AND FOXO1 ARE COORDINATELY EXPRESSED IN A ONE-TO-ONE STOICHIOMETRIC PATTERN AT BASELINE, DURING EXERCISE AND IN BOTH GENDERS IN ELDERLY AFRICAN AMERICANS WITH MCI. *Alzheimer's and Dementia* 15(7): P1003 · July 2019 DOI: 10.1016/j.jalz.2019.06.3219.
- 2017 Obisesan, Thomas O., Oyonumo Ntekim, Julius S. Ngwa, Joanne S. Allard, James B. Brewer, and **Thomas V. Fungwe**. "EXERCISE TRAINING-INDUCED CHANGES ON POSITRON EMISSION TOMOGRAPHY (PET) WITH 2-DEOXY-2-[18F] FLUORO-D-GLUCOSE ([18F] FDG) IN MILD COGNITIVELY IMPAIRED OLDER AFRICAN AMERICANS: GEMS STUDY." *Alzheimer's & Dementia: The Journal of the Alzheimer's Association* 13, no. 7 (2017): P1566

- 2017 Ntekim, Oyonumo, Julius S. Ngwa, Joanne S. Allard, **Thomas V. Fungwe**, Graham A. Lennox, Richard F. Gillum, Chimene Castor, and Thomas O. Obisesan. "EFFECTS OF EXERCISE ON PLASMA NITRITE/NITRATE LEVELS, AND NITRIC OXIDE SYNTHASE ACTIVITY IN ELDERLY AFRICAN AMERICANS WITH MILD COGNITIVE IMPAIRMENT." *Alzheimer's & Dementia: The Journal of the Alzheimer's Association* 13, no. 7 (2017): P1006
- 2017 Julius S Ngwa, Sharlene Leong, Lennox A Graham, Oyonumo Ntekim, Joanne S Allard, Oludolapo Ogunlana, Saba Wolday, Steven Johnson, Chimene Castor, **Thomas V Fungwe**, Thomas O Obisesan (2017). "Normative Analysis of Mini Mental State Examination: A Cross Sectional Study in a Predominantly African American Sample". *Alzheimer's Association International Conference*.
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- 2017 Julius S Ngwa, Sharlene Leong, Lennox A Graham, Oyonumo Ntekim, Joanne S Allard, Oludolapo Ogunlana, Saba Wolday, Steven Johnson, Chimene Castor, **Thomas V Fungwe**, Thomas O Obisesan (2017). "Normative Analysis of Mini Mental State Examination: A Cross Sectional Study in a Predominantly African American Sample". *Alzheimer's Association International Conference*.
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- 2015 Julius S. Ngwa, **Fungwe Thomas**, Sheree M. Johnson, Joanne Allard, Oyonumo Ntekim, Richard F. Gillum, Thomas O. Obisesan. "Pulse Pressure and Systolic Blood Pressure Associated with Hippocampal Volume by Apolipoprotein ε4 (APO ε4) Carriers and Alzheimer Disease Status: Alzheimer's Disease Neuroimaging Initiatives (ADNI)". *Alzheimer's Association International Conference*.
- 2015 Oyonumo Ntekim, MD, MHSA, PhD, Julius S. Ngwa PhD, Thomas Fungwe, Ph.D. CFS., Sheree M. Johnson, PhD, Richard F. Gillum, M.D., Thomas O. Obisesan, M.D., MPH. Exercise induced-effects on Serum and CSF BDNF levels in Elderly African Americans with Mild Cognitive Impairment: Gene Exercise and Memory Study (GEMS). Joanne S. Allard, PhD, HU Research Day. Spring 2015.
- 2015 Mearaph Barnes, Caitlin Harris, Avis P. Graham, Thomas V. Fungwe, Allan A. Johnson, Oyonomo E. Ntekim, Chimene Castor. (2015). Addressing Cardiovascular Diseases and Health Disparities in The Black Male: A Case Study Using the Nutrition Care Process. Teachers College, Columbia University, 7th Annual Health Disparities, Howard University Research Day.
- 2014 Mohamed Gharib, Thomas Fungwe and, Tahar Hajri. CD36 Deficiency Reduces obesity-associated inflammation and oxidative stress in the heart. *American heart Association-2014-A-549-AHA-BCVS, 2014*
- 2014 Fungwe TV, Hajri, T. Oxidized Cholesterol is a potent inducer of hypertension and endothelial dysfunction. *Faseb Journal* 20(4) LB445, 2014

HONORS AND AWARDS

- ◆ Provost's Distinguished Service Award. January 2021
- ◆ Faculty of American College of Nutrition. June 2019.
- ◆ Certified Food Scientist – 2013, credential from the International Food Science Certification Commission appointed by the Institute of Food Technologists.
- ◆ Writing matters – CETLA
- ◆ President's Award 2012 – CFC Agency Coordinator, USDA Center for nutrition Policy and Promotion
- ◆ 2012 – USDA Award. Recognition for Outstanding Team Effort – Nutrition Evidence Library in support of the 2010 DGAC Work
- ◆ 2010 – HHS-ODPHP Award. Recognition for Outstanding Team Effort - 2010 DGAC
- ◆ 2010 – CNPP Time off Award. Recognition for Outstanding Staff Effort - 2010 DGAC
- ◆ 2009 - Recognition of merit – CNPP-USDA for significant contributions to the Healthy Eating Index and coordinating the inclusion of Healthy Eating Index scores in the Children's Chart Book, a government-wide Approach to Reporting on the Well-being of Children.
- ◆ Certificate of appreciation, public health and Policy class Instruction, Morgan State Univ., 2006.
- ◆ Nominations to College and President's Excellence in Teaching Awards – Wayne State University

- ◆ Phi Beta Delta. Honor Society
- ◆ Kappa Delta Pi, International Honor Society in Education.
- ◆ Sigma Xi Research Honor Society
- ◆ Rotary International Educational Award

BIOGRAPHICAL CITATIONS & PROFESSIONAL DIRECTORIES

- ◆ Community of Science (COS) Expertise Data Base
- ◆ PubMed: <https://pubmed.ncbi.nlm.nih.gov/?term=Fungwe+TV>
- ◆ Google Scholar: https://scholar.google.com/scholar?hl=en&q=Fungwe+TV&btnG=&as_sdt=1%2C9&as_sdtp=
- ◆ LinkedIn: <https://www.linkedin.com/feed/> - All Star Profile
- ◆ Researchgate: https://www.researchgate.net/profile/Thomas_Fungwe2

LANGUAGE PROFICIENCY

- ◆ English
- ◆ French
- ◆ Four African dialect

REFERENCES

Available on request.

Current Research Interest:

In addition to administrative duties, I am faculty in Nutritional Sciences and dietetics and, a member of a collaborative team of Investigators with interest in investigating Genes, Exercise, Memory, and neurodegeneration associated with cognitive aging in blacks, with a specific interest in the role of nutrition and cardiovascular risk factors in Alzheimer's disease and Related-Dementia. I am combining these areas to studies that involve precision nutrition and health literacy with a goal of reducing health disparities.

Research Focus of CNAHS aligned to Howard University Strategic Plan

1. Community Health and Well-being:
Research involving Community-based programs designed to improve conditions that affect health and well-being (e.g., housing, education, environmental/neighborhood safety, nutrition, and access to care), in addition to programs that prioritize the social, cultural, and linguistic needs of underserved populations, patients, caregivers, and families, local, national, and global.
2. Research programs that promote STEM Education and Career Readiness:
Programs that build knowledge and skills in the fields of science, technology, engineering, and math among K-12 and/or undergraduate and graduate students (e.g., precision nutrition, nursing, medicine).