

CURRICULUM VITAE

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&
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EDUCATION

1994 - 2001	Ph.D. Microbiology, Howard University, Washington D.C., USA
1986 - 1991	M.Sc. Microbiology & Botany, King Saud University, Riyadh, Saudi Arabia
1980 - 1984	B.S. Microbiology, King Abdul-Aziz University, Jeddah, Saudi Arabia

POST-DOC TRAINING

2001 - 2004	Post-doc Molecular Biology, Howard University Cancer Center, Washington, D.C. & Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins, Baltimore, MD.
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EMPLOYMENT HISTORY

2010- Present	Associate Professor, Department of Microbiology, College of Medicine, Howard University Cancer Center.
2005- 2010	Assistant Professor, Department of Microbiology, College of Medicine, Howard University.
2004- 2005	Instructor, Department of Microbiology, College of Medicine, Howard University.
1996- 2005	Instructor and Coordinator (Summer Program) Microbiology Course in Health Careers Opportunity Program College of Pharmacy and Pharmaceutical Sciences, Howard University.
1996	Counselor in the Young Scholars Program (Summer Program) Department of Microbiology, College of Medicine, Howard University. Responsible for supervision, lectures, site visits, and conducting sessions for high school students.
1996-1998	Teaching Assistant, Department of Microbiology, College of Medicine, Howard University. Responsibilities: Conducting laboratory sessions for Medical, Dental, Pharmaceutical and Allied Health Students.
1988-1991	Teaching Assistant, College of Arts and Sciences, King Saud University, Riyadh, Saudi Arabia Responsibilities: Conducting laboratory sessions for Microbiology course.

HONORS, AWARDS & SCHOLARSHIPS

2019	Outstanding Faculty Research Award, Howard University College of Medicine.
2014	Graduate Faculty Exemplar, Graduate School, Howard University.
2000	First place award Poster presentation, Howard University, Graduate School of Arts and Sciences.

2000	Roland & Walden Nickens Scientific Research award, Howard University Medical Center Scientific Forum.
2000	Oral & poster presentation award, American Society for Microbiology, Washington D.C. branch.
2000	Oral & poster presentation award, National Medical Association.
2009	AACR Minority-Serving Institution Faculty Scholar in Cancer Research Award.
1987	Ministry of Education of Saudi Arabia Scholarship; King Saud University, Riyadh, Saudi Arabia.
1995	Honor List, Cash Award, Saudi Arabian Cultural Mission, Washington, D.C.
1994-2000	Full Scholarship, Saudi Arabian Cultural Mission, Washington, D.C.

PROFESSIONAL MEMBERSHIPS

2016-Present	American Association for Cancer Research, Tumor Microenvironment (TME) Working Group. Role: To promote research of the tumor microenvironment as an integral part of the prevention and cure of cancer; To support the education, training, and professional advancement of early-career scientists to drive interest in the field.
2005-2007	American Cancer Society Role: Advocate: work to encourage elected officials and candidates to make cancer a top national priority.
2005-2007	Neurotoxicity Society Role: discussed the latest research in neurotoxicology from molecular through epidemiological studies.
2000-Present	American Association for Cancer Research Role: Shape the future of Breast Cancer Research by supporting AACR programs
1996-2000	Sigma Xi, Research Honor Society, Howard University Chapter Role: support the interests of young scientists to broaden participation in science and engineering.
1996-2000	Society for Experimental Biology & Medicine Role: Participate in committee on how to best prepare trainees to gain command of diverse biomedical disciplines, leadership qualities, communication skills and how to work in teams.
1995-2000	American Society of Microbiology Role: Shape the future of microbiology by supporting ASM programs.

COMMITTEE SERVICES

Institutional Service/Howard University (University Wide) Services

2023-Present	Member, Faculty Grievance Commission , presenting Howard University College of Medicine. Role: Make recommendations for the resolution of Grievances.
2023	Reviewer, Graduate Program Awards , Ernest Just-Percy Julian Graduate Research Assistantship. Review and score the applicants based on academic achievement, research interest/potential, and serve as a trainee under the direction and supervisor of a faculty member who has an ongoing research enterprise.
2022-2025	Curriculum Committee, Graduate School The Curriculum Committee shall 1) review the curricula and make recommendations to the Dean regarding enhancements; 2) advise the Dean on proposed curriculum and proposals related to new courses, programs, and majors; 3) screen and review all new programs and make recommendations regarding their priority to the Dean; 4) update criteria and

- procedures for new program review; 5) reviews all changes, additions, and deletions to existing curriculum.
- 2022-2025 **Grievance Committee, Graduate School**
The Committee will hear grievance related to academic matters and make recommendations to the Dean.
- 2022-2025 **Executive Committee, Graduate School**
Reviewing and recommending petitions for extension and course restorations, certifying the prospective graduates, and serving as an advisory council to the Dean. Serve as a liaison between the Dean and the Graduate Faculty. As needed, establish, and appoint members to ad hoc committees to the study and make reports on any matters of concern to the Graduate faculty. Act, in accordance with its bylaws, on behalf of the Graduate faculty in those matters requiring immediate action when it is not feasible to call a special assembly of the Graduate faculty.
- 2021-2023 **Faculty Senate Committee on Governance, Constitution and By-Law Revision**
This Committee shall be consulted and render an opinion back to the appropriate bodies of the Senate regarding all interpretative issues and matters of intent that arise regarding policy, constitution, and bylaws. The Steering Committee can refer all proposed amendments to the Constitution and Bylaws to this Committee for its interpretative opinion prior to transmittal to the Council. This Committee shall review policies and practices and, as appropriate recommend changes in the Constitution, and the By-Laws of the Faculty Senate, the Faculty Handbook as well as other University policy documents affecting faculty governance (Howard University Faculty Senate Bylaws – Approved April 20, 2010).
- 2020-Present **Faculty Reviewer for Ukweli.** The Howard University (HU) Undergraduate Research Ukweli is a biannual, interdisciplinary publication designed to give HU students a platform to share research and academic writing. The need to promote and recognize Black academic thought and research is more pressing than ever. Born of this need, Ukweli serves as a virtual learning center for the exchange of knowledge and ideas across disciplines.
- 2020-Present **Chair, Biorepository Ad Hoc IRB Committee.** The committee established to develop Biorepository Standard Operating Procedures (SOPs) for various biobanking practices and all associated processes and policies including ethical, legal; and the collection, storage, use, and re-use of all human biospecimen that are generated within, transferred to, or transferred from the Howard University and its covered entity.
- 2020-2022 **Member, The 1993 Faculty Grievance Commission (The 1993, FGC).** As recommended by the Provost, the 2019-2020 Faculty Grievance Commission (FGC), which was elected prior to the adoption of the 2019 Faculty Handbook, to continue making recommendations for the resolution of Grievances, bring to conclusion, resulting in formal recommendations, for all FGC cases received prior to adoption of the 2019 Faculty Handbook, on June 7, 2019, in accordance with the 1993 Faculty Handbook.
- 2017-2020 **Member, Faculty Grievance Commission, Howard University.** Role: Make recommendations for the resolution of Grievances.
- 2014-Present **Member, Research Committee, Strategic Planning Committee, Howard Cancer Center (HUCC).** Role: 1) Providing opportunities for greater interdisciplinary interaction among trainees; 2) Creating a network of trainees and mentors which will facilitate targeted communications about research careers, research opportunities, and scholarly activities.
- 2012-2016 **Member, Hearing Panel, Faculty Grievance Commission.** Role: conducts a Grievance Hearing and makes recommendations for the resolution of Grievances.
- 2011-present **Member, Howard University Institutional Review Board (IRB) Committee.** Role: 1) Review all relevant materials before committee meetings; 2) Attend committee meetings and voice objective opinions on issues; 3) Pay attention to association activities that affect or are affected by the committee's work; 4) Support the efforts of the committee chair and

carry out individual assignments made by the chair; 5) Work as part of the committee and staff team to ensure that the committee's work and recommendations are in keeping with the general association mission and goals.

Howard University College of Medicine (HUCM) Services

- 2019-2023 **Member, Hearing List**, Representing Howard University College of Medicine
- 2018-2020 **Member of Search Committee**, New Director, Howard University Cancer Center. Role: Review applications, screen, interview, and recommend the best candidates for the position.
- 2013-2014 **Member, Medical Student Summer Research Program (MSSRP) Review Board**, Howard University College of Medicine. Role: To organize, coordinate, and expand the opportunities for high quality research training at Howard University College of Medicine.
- 2013 **Applications Reviewer, HUCM Medical Student Summer Research Program (MSSRP) Review Board**. Role: 1) Providing opportunities for greater interdisciplinary interaction among trainees; 2) Creating a network of trainees and mentors which will facilitate targeted communications about research careers, research opportunities, and scholarly activities.
- 2011-2014 **Member, Research Committee**, Howard University College of Medicine. Role: 1) Responsible for ensuring a well-balanced, high-quality conference/seminar program/series; 2) Organizing, coordinating, and developing professional conferences that enhance, generate, and produce new knowledge or understanding in one or more fields of research; 3) Discuss problems and difficulties that might face the faculty at the department and find resolutions.
- 2007 **Member, Search Committee**, New Chair of Department of Pediatric
- 2005, 2008 **Judge**, Research Symposium and Honors Day, Howard University
- 2003 **Member, Search Committee**, New Director Howard University Cancer Center.

Microbiology Department Services

- 2016-Present **Member, Graduate Students Admissions Committee**, Microbiology Department, Howard University. Role: 1) Review all applications to the Department of Microbiology from the Graduate School; 2) Insure that applicants have pre-requisites for admission to the department; 3) Present qualified applicants to the Department for final decision on admission; 4) Confer with the financial Aid Committee on student support availability; 5) Prepare letter of acceptance (check with Graduate School); 6) Send students information on 1st semester course offerings and recommended texts (confer with Advisory Committee).
- 2016-Present **Member, Appointment, Promotion and Tenure Committee**, Microbiology Department. Role: 1) Review candidates seeking appointment, promotion, or tenure. 2) In the case of initial appointment, the Committee reviews the candidate's dossier and makes recommendations regarding appropriate academic rank and, in rare cases, tenure. 3) The Chair of the APT forwards the committee's recommendations to the Chair of the Department.
- 2016-Present **Member, Executive Committee**, Microbiology Department, Howard University. Role: Review the major issues facing the organization, weighing pros and cons, and making preliminary decisions, to be ratified by the board at the actual board meeting.
- 2016-Present **Member, Recruitment Committee**, Microbiology Department, Howard University.
- 2015-2017 **Member, Research and Seminar Committee**, Microbiology Department, Howard University. Role: to discuss and fund funding opportunities and seek outside speakers to present in our Departmental Seminar series.

- 2007-Present **Member, Off-Campus Research Committee**, Microbiology Department, Howard University. Role: 1) Prepare application to perform off-campus dissertation research; 2) Prepare Guidelines for off-campus research partnerships for (students, off-campus mentor, and departmental advisors); 3) Monitor student progress towards landmarks and dissertation completion.
- 2007-2016 **Member, Honors and Awards Committee**, Microbiology Department, Howard University. Role: 1) Develop criteria for awarding of prizes for medical, dental, and graduate students; 2) coordinate with departmental trustee as to source of award prizes; 3) coordinate nominations for and submission of faculty and staff awards; 4) coordinate with College of Medicine's Awards Committee; 5) seek new sources of revenue for student awards.
- 2007-2016 **Member, Financial Aid Committee**, Microbiology Department, Howard University students. Role: 1) Seek and identify all sources of financial aid available to current and incoming graduate 2) develop criteria for each type of financial receipt; 3) coordinate the awarding of financial aid to incoming and continuing students; 4 ensure that all Awardees meet and maintain the criteria for the award; 5) develop a post-award evaluation of student performance and progress; 6) serve as Liaison(s) to ASM Local Chapter and Student Chapter.
- 2007-2016 **Chair, Graduate Education Committee**, Microbiology Department, Howard University. Role: 1) Evaluate and up-dates the Departmental Rules and Regulations handbook; 2) provides input, data and statistics for departmental evaluations and surveys (i.e., NSF survey on Financial Aid, Departmental Review, et.); 3) assists with the preparation of the Annual Report for the College of Medicine and the Graduate School; 4) Alumni Tracking.

National Services

- 2021-2022 **Institutional editor and project champion**. A partnership between the Nature Reviews Cancer Journal and the Howard University Cancer Center.
Role: Internal oversight of the distribution of slots, recruiting authors, and ensuring that the writing and submission of articles is timely and within the pre-set publication schedule. Also, will be responsible for internal quality checks.
- 2021 **Program Reviewer**, Master of Science in Microbiology, and Infectious Disease Program. Fakeeh College for Medical Sciences (FCMS), Abdul Wahab Naib Al Haram, Al-Hamra'a, Jeddah 23323, Saudi Arabia.
- 2017 **Judge** for the Twelfth Annual Undergraduate Student Caucus and Poster Competition. Science Education, American Association for Cancer Research. April 1, 2017, Washington, DC.
- 2014-Present **Editorial Board Member**, Austin Journal of Microbiology

Community and Organizations Services

- 2017-Present **Client Advocacy Board**, Member, Washington Retirement Planning Specialists, 6701 Democracy Blvd #711, Bethesda, MD 20817.
Role: Provide feedback and suggestions regarding the quality and frequency of the company's services. Also, provide guidance to attract clients to the firm.
- 2006-2008 **Legislative Ambassador**, American Cancer Society
- 2000-2008 **Board Member and Secretary**, Springfield Square Homeowner's Association

GRANTS, BOOKS, & SCIENTIFIC MANUSCRIPTS REVIEWR

Grants Reviewer

2022	The University of North Carolina Nutrition Obesity Research Center (NORC) Pilot & Feasibility (P&F) Program.
2017	NIH Eastern Regional Comprehensive Metabolomics Research Core (ERCMRC) Pilot and Feasibility (P&F) Program.
2016	Developmental Research Projects Program. University of Puerto Rico, Universidad De Puerto Rico Medical Sciences Campus.
2016	IDeA network of Biomedical Research Excellence (INBRE) program, NIH.
2016	VA HBCU CDA2 Career Development Award review panel. US Department of Veterans Affairs, Office of Research & Development, 810 Vermont Avenue (10P9), Washington, DC 20420.
2014	United States Department of Veterans Affairs, VA-ORD Historically Black College and University Research, Scientist Training Program Award.
2013	Congressionally Directed Medical Research Programs (CDMRP) peer review, Prostate Cancer Research Program (PCRP) Pre-application-Molecular Biology and Genetics.
2013	Congressionally Directed Medical Research Programs (CDMRP) peer review, Exploration-Hypothesis Development-Clinical and Experimental Therapeutics-2.
2013	Congressionally Directed Medical Research Programs (CDMRP) peer review, Prostate Cancer Research Program - Exploration-Hypothesis Development-Clinical and Experimental Therapeutics.
2012, 2014	Georgetown-Howard Universities Center for Clinical and Translational Science (GHCCTS) KL2 Applications.
2012	Congressionally Directed Medical Research Programs (CDMRP) peer review, Prostate Cancer Research Program (PCRP) Exploration-Hypothesis Development-Pathology-2.
2012	Congressionally Directed Medical Research Programs (CDMRP) peer review, Prostate Cancer Research Program (PCRP) Clinical and Experimental Therapeutics-3.
2011	NIH Prostate Cancer Research Program, Mechanisms of Cancer Therapeutics Study Section.
2011	Congressionally Directed Medical Research Programs (CDMRP) peer review, Prostate Cancer Research Program (PCRP), Training-Pathobiology.
2009	Congressionally Directed Medical Research Programs (CDMRP) peer review, Breast Cancer Research Program - Molecular Biology & Genetics #2.
2008	Howard University General Research Clinical Center

Books Reviewer

2019	Bentham Science Publishers, Reviewer, eBook title “Current Advances in Breast Cancer Research: A Molecular Approach”.
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Scientific Manuscripts Reviewer

2023	Open Medicine
2023	Therapeutic Radiology and Oncology
2022	Frontiers in Oncology
2021	World Journal of Clinical Oncology
2021-Present	the Howard University (HU) Undergraduate Research Ukweli Platform.
2019	Nature Research Journal
2017	World Journal of Surgical Oncology (WJSO)

2017	Tumor Biology Journal
2016-2018	OncoTargets and Therapy
2015-2018	Dove Medical Press
2015	Cancer Biology & Therapy
2015	PLOS ONE Journal
2015	Prostate Cancer Journal
2015	Journal of Human Nutrition and Dietetics

SPECIAL ASSIGNMENTS & COURSES TAUGHT

Special Assignments

2021-Present	Graduate Course Coordinator: Cellular and Molecular Immunology (84374-304), Microbiology Department, Howard University.
2007-Present	Graduate Course Coordinator: Cell Biology (CRN14903; MICR 305- 01), Microbiology Department, Howard University.
2005-Present	Facilitator , Problem-based learning (PBL) and Small Group Learning Session (SGL), Howard University College of Medicine.
2005-2006	Facilitator , Liaison Committee on Medical Education (LCME), Howard University College of Medicine.

Lecturer, Teaching Services

Medical Courses:

Molecules and Cells, Unit 2/Medicine, and Society (Total 7 hours); Topics: 1) Immunoglobulins structure, function, gene rearrangement and associated deficiencies; 2) The Complement System and Complement Component Deficiencies; 3) Basis of immunologic Diagnostics; 4) Hypersensitivity Types II and III.

Small Group Learning Activities Facilitator (Total 38 hours); Topics: 1) Molecules and Cells Unit 2 (12 hours); 2) Bacteriology Small Group Sessions *Organ System-1* (4 hours); 3) *General Principles* (10 hours); 4) *Microbiology CNS* (4 hours) 5) Organ Systems Course; Cardiorespiratory Unit (4 hours); 6) Microbiology CNS (4 hours)

Bacteriology & Virology laboratories Facilitator (Total 4 hours)

Medicine and Society Integrated Learning Groups Research Projects Course (Total 12 hours= 10 class hours and poster sessions 2 hours)

HUCM Preliminary Academic Reinforcement Program (PARP); Topics: Antibodies, Immunoglobulin Gene Rearrangement (Total 4.5 hours)

Dental Courses:

Microbiology and Immunology (16172-DENT-112-01) (Total 6 hours); Topics: 1) Hypersensitivities II and III reactions; 2) Epidemiology; 3) Complement-antibody reaction. Laboratory Facilitator: (Total 2 hours)

Pediatric Dentistry Seminar Course (PGY1) (PGDP64201201808): Immunology in Pediatric Dentistry (Total 2 hours)

Nurses Course:

Microbiology in Health and Disease (MDMI-103-01201608) (Total 6 hours). Topics: 1) Tools for Observing Microorganisms through a Microscope; 2) Structure and Function of Prokaryotic Cells; 3) Structure and Function of Eukaryotic Cells; 4) Specific and Non-specific Defenses of the host and Specific Immunity; 5) Complement System; 6) Practical Applications of Immunology, Laboratory Facilitator (Total 6 hours)

Pharmacy Course:

2004-2015 **Biomedical Sciences II** (CRN 86688; PHAR 302-01); (20042013) (Total 6 hours); Topics:
1) Role of Immune System in Health and Disease: Microbial Antigen; 2) Role of Immune System in Health and Disease: Blood and Tissue Antigens.

Graduate Courses:

Biology of Pathogen 1 (231-300) (Total 8 hours); Topics: **Macromolecular** Synthesis: Replication, Transcription and Translation **Biology of Pathogen II** (129127-302-02) (Total 2 hours); Topics: Antiphagocytic Factors

Cellular and Molecular Immunology (84374-304) (Total 10 hours); Topics: 1) Immunoglobulins; Structure and Function; 2) Organization and Expression of Immunoglobulin Genes; 3) Antigens Antibody Interactions; 4) Complement System; 5) Journal club.

Cell Biology (CRN14903; MICR 305-01) (Total 4.5 hours); Topics: 1) Introduction; 2) Cell Culture; 3) Cancer; 4) Molecular Structure of Gene and Chromosome.

Cancer Genomics Course (MICR 418/71- 51689; 72- 5330; & 73-5331) (Total 2 hours); Topics: Biology of Breast Cancer.

Graduate Course: Dissertation Research (CRN 14245; MICRO 600 02), Spring 2012-2016

Graduate Course: Dissertation Research (CRN 84250; MICR 600 02), Fall 2012-2015

Graduate Course: Dissertation Research (CRN 88356; MICR 600 02), Fall, 2007-2011

Graduate Course: Dissertation Research (CRN 17583; MICR 600 02), Spring, 2007-2011

Graduate Course: Research in Micro (CRN 87500; MICR 22808), Fall 2019

Graduate Course: Special Topics (CRN 88716; MICR 41804) Fall 2019

Graduate Course: Research in Micro (MICR 22810) Spring 2020

Graduate Course: Dissertation Research (MICR 600 04) Spring 2020

RESEARCHS ERVICES & TRAINING

Post-Doctorial

2011-2014 **Emmanuel Y Jingwi**

Mentoring and Ph.D. Research Dissertation Advisor

2016-2021	Mustafa Qasim , Microbiology Department Investigating the Role of <i>KISS1/KISS1R</i> in Breast Cancer.
2016-2020	Ahmed Kabrah , Microbiology Department The Role of Acinar Cells Function in Oral and Gut Microbiota in Autoimmune Pancreatitis and Sjögren's Syndrome.
2016-2019	Safaa Turkistani , Microbiology Department miRNA Signatures of Triple Negative Breast Cancer in African American Women
2016-2019	Maram Almohaywi , Microbiology Department Integrated analysis of copy number alterations and miRNA profile of triple negative breast cancer in Latina women.
2013-2016	Ashley Queen , Microbiology Department Investigating the phenotypic and clinical features associated with the presence or absence of BRCA1 gene mutations in breast cancer patients.
2012-2016	Lance Buckley , Microbiology Department. Characterizing commonalities and differences between the breast and prostate cancer metapotypes in African American cohorts.
2010-2014	Sylvia Dasi , Department of Genetics & Human Genetics. Methylation of <i>ESRα</i> Promoters in Pre-Malignant Breast Tissues Could Be a Biomarker that Correlates with Disease Progression of Breast Cancer.
2009-2014	Ashley Parker , Microbiology Department. Small RNA Regulation of an outer membrane protein ToLC.
2009-2013	Whitney Barfield , Microbiology Department. Osteopontin Genotype as a Determinant of Skeletal Muscle Remodeling: A Study of Healthy Young Adult Females.
2007-2010	Mohammad R. Daremipouran , Department of Genetics & Human Genetics. UV Exposure, Vitamin D, and Prostate Cancer Risk in African Americans.
2005-2007	Douglas White , Microbiology Department. Biological Evaluation of 1,4-Naphthoquinone Derivatives on Prostate Cancer Cell Lines.

Member, Graduate Students Ph.D. Research Dissertation Committee

2022-Present	Destiny Lawler , Pharmacology Department The Association between Triple-Negative Breast Cancer and Systemic Lupus Erythematosus using Calcium Channel Blockers as a novel drug therapy.
2019-2021	Josef Paul , Biochemistry Department, Co-mentor Investigating the Functional Role of RASAL2 in Prostate Cancer.
2019-2020	Afnan Shakoori , Genetics Department, Genetic and Epigenetic Associations of serotonin receptor 7 (5-HT7) Breast Cancer in African Americans.
2018-2020	Nicole Retland Moreland , Microbiology Department, Association of Genetic Variation in the Serotonin receptor, 5-HT2A, with Breast Cancer in African American Women.
2018-2022	Victoria Brooks , Microbiology Department, Immunological Profiling of Chronically Transfused Sickle Cell Disease Patients.
2017-2020	Anastasia Robinson , Pharmacology Department, Combinatorial effects of 2, 3- dichloro-5, 8-dimethoxy-1, 4-naphthoquinone and 4-hydroxytamoxifen on Triple-Negative Breast Cancer Cell Lines.

2017-2019	Abrar Aloufi , Microbiology Department, Genetics and Epigenetics, Associations of Vitamin D Receptor with Breast Cancer in African American Women.
2015-2017	Zeina Sharawi , Genetics Department, The Role of Calcium and Nitrite in the Activation of the Androgen Receptor.
2015-2017	Aliza Ibad , Microbiology Department, Genetics and Epigenetics in HPV-Infected Anal Carcinomas.
2012-2014	Kimberly Mason , Microbiology Department, Analysis of the Vitamin D Binding Protein Gene Variants, and Associated Risks for Prostate Cancer among African American Men.
2013-2014	Hamid Rahi , Department of Genetics & Human Genetics, Detection of Methylation Targets in Advanced Adenoma in African American: Discovery of Colorectal Cancer Risk Markers.
2011-2013	Danyelle Winchester , Department of Genetics & Human Genetics, Genetic Variation in the IL-6 Response Element of <i>SPINK1</i> Promoter and Prostate Cancer in Men of African Descent.
2012-2014	Ezra Hackett , Microbiology Department, Potential Inhibition of Heat Shock Protein 90 by Muscadine Grape Skin Extract in Metastatic Prostate Cancer.
2009-2011	Denitra Alexas Breuer , Microbiology Department, CDK9 phosphorylation by CDK2 in HIV-1 transcription.
2009-2011	Sharla Michele Peters , Microbiology Department, Identification, and <i>in vivo</i> characterization of inflammatory biomarkers in swine.
2009-2011	Bradford Daniel Wilson , Department of Genetics & Human Genetics, Characterization of variation in the vitamin D receptor promoter and association of Ancestral haplotype with prostate cancer in African Americans.
2009-2011	Erica Jones, Chair , Microbiology Department, The isolation, and <i>in vivo</i> characterization of ClpX mutants with altered activities.
2009-2011	Zebalda Baji , Microbiology Department, Dithiocarbamate analogs of emetine as potential chemotherapeutic agents: their apoptotic role, gene regulation and efficacy in prostate cancer.
2006	Jacqueline Mason , Microbiology Department

Research Training

A. Graduate Students

2009	Oladimeji Abegunirn , Microbiology Department
2005-2007	Hilaire Kenguele , Biology Department
2006	Altreshia Foster , Microbiology Department

B. Medical Students/Residents

2013-2015	Kwesi Blackman, M.D.
2012-2013	Maryam Sarraf, M.D.
2011-2012	Shani Scott
2007-2008	Nina Rajaei, M.D.
2008	Amal Khoury, M.D.
2007-2008	Bobby Oomemen, M.D.
2006-2007	Teena George, M.D.
2004	Audura Harris, M.D.
2004-2006	Enaruna Igiehon, M.D.

C. Undergraduate Students

2010	Nickia King , Chemistry Department
2010	Takiya Rowe , Nursing School

2010	Natasha Graves , Health Education
2004-2007	Vonetta Williams , Chemistry Department
2005-2006	Gina Bazemore , Pharmacy School

Serving as an academic advisor for the first year Medical School students in the following areas: 1) Personal and career guidance; 2) Specialty preference choices; 3) Encouraging the formulation of a strategy that guides them through to graduation; and 4) Information regarding research.

2022-2023	Jessica Brinson
2022-2023	Whitney Phipps
2021-2022	Tyler Carr
2021-2022	Myles Moore
2019-2020	Lancelor Benn
2016-2017	Maryam Laiyemo
2014-2015	Jerry Umeh
2014-2015	Ruth Jobarteh
2013-2014	Metty A Dessalegan
2012-2013	Noreen Islam
2010-2013	Jerome Clayton

Extramural Grants

Dates: 2020-2022
Title: Investigating the role of KISS1/KISS1r in breast cancer
Role: PI Effort: 10%

Title: High Throughput Mechanical Modulatory Assay for Breast Cancer Drug Testing
 Role: Co-I Effort: 10%

Title:	Characterization and establishment of triple negative breast cancers from African American women		
Role:	PI	Effort:	25%

Title:	Characterizing commonalities and differences between the breast and prostate cancer metapotypes in African American cohorts		
Role:	PI (Sub-project)	Effort:	25%

Sponsor: **National Institutes of Health, National Center Institute**
Howard/ Hopkins Partnership
Grant Number: 2U54 CA091431-06
Dates: 2009-2011
Title: Altered expression and function of metabolism genes in triple-negative breast cancers
Role: PI (Sub-project) Effort: 20%

Sponsor: **National Institutes of Health, National Center Institute**
Washington DC-Baltimore Research Center on Child Health Disparities
Grant Number: RFA-MD-06-003
Dates: 9/30/06- 9/29/2011
Title: AKT haplotypes as a risk factor for glycemia and metabolic syndrome in minority populations
Role: Eric Hoffman (PI); Kanaan (Co-PI) Effort: 25%

Sponsor: **National Institutes of Health, National Center Institute**
Howard/ Hopkins Partnership
Grant Number: 2U54 CA091431-06
Dates: 2006-2009
Title: Cytotoxic Effects of Imido-Substituted 2-Chloro-1,4-naphthoquinones on Human Prostate Cancer Cell Lines
Role: Co-PI (Sub-project) Effort: 20%

Sponsor: **National Institutes of Health, National Center for Research Resources**
Howard/ Hopkins Partnership
Grant Number: 2U54CA091431-06-A1
Dates: 2006-2008
Title: Molecular Profile of a Basal-Like Phenotype of Breast Cancer in African American Women
Role: PI (Sub-project) Effort: 20%

Sponsor: **Department of Defense (DOD)**
Grant Number: DAMD17-03-1-0069
Dates: 2005-2008
Title: UV Exposure, Vitamin D, and Prostate cancer Risk in African Americans
Role: PI Effort: 25%

Sponsor: **Charles and Mary Latham Foundation**
Grant Number: OC060218
Dates: 2005-2007
Title: Design and Synthesis of Imido-Substituted 2-Chloro-1,4-Naphthoquinone Derivatives for Studies in Ovarian Carcinoma Cell Lines
Role: PI Effort: 10%

Sponsor: **National Institutes of Health, National Center for Research Resources**
Howard/Hopkins Partnership
Grant Number: 5-U54-CA914-31-10 (PI: Smoot, Howard University)
Dates: 2004-2005
Title: Cytotoxic Effects of Imido-Substituted 2-Chloro-1,4-naphthoquinones on Human Prostate Cancer Cell Lines
Role: Co-PI (Sub-project) Effort: 10%

Intramural Grants

Sponsor: **Howard University College of Medicine** Research Development program;
Bridge Funds and pilot Study Awards Program (BFPSAP)
Grant Number: U400042
Dates: 2012-2013
Title: Metabolomic profile of breast cancer progression in African American women
Role: PI Effort: 20%

Sponsor: **Howard University Collaborative Alcohol Research Center**
Grant Number: NIAAA 5-P20-AA014643-04 (PI: Dr. Robert Taylor)
Dates: 2006-2007
Title: Allelic variations and the risk of alcoholism in African American population
Role: PI Effort: 10%

Sponsor: **GHUCCTS-Pilot Translational and Clinical Studies Program**
The National Center for Advancing Translational Sciences (NCATS), National
Institutes of Health, through the Clinical and Translational Science Awards
Program (CTSA).
Grant Number: U54TR001366-01 (Previously ULTR000101)
Dates: 12/1/2015-03/31/2016
Title: Correlates of Triple Negative Breast Cancer and Chemotherapy Patterns in Black
and White Women with Breast Cancer
Role: Dr. Shepperd (PI), Dr. Kanaan (Co-I) Effort 10%

PROFESSIONAL DEVELOPMENT

Symposiums/Conferences

- 2023 **Cluster Meeting of Gala Technology**, The 12th Annual World Congress of Neurotalk-2023, Sana Metropolitan Hotel, Lisbon Portugal, July 17-19, 2023.
- 2022 **Implicit Bias: A Practical Guide for Healthcare Settings**, The George Washington University School of Medicine and Health Sciences, Washington, DC.
- 2022 **Symposium on World Cancer Research (SWCR)**; May 6-8, 2022. InterContinental Singapore, Singapore.
- 2021 **San Antonio Breast Cancer Symposium**, December 7-10, 2021, Henry B. Gonzalez Convention Center, San Antonio, Texas, USA.
- 2019 **San Antonio Breast Cancer Symposium**, December 10-14, 2019, Henry B. Gonzalez Convention Center, San Antonio, Texas, USA.
- 2019 **American Association for Advancement of Science (AAAS)**, Dialogue on Science, Ethics, and Religion (DoSER) Program. Professional Development Workshop: Science Communication and Engagement with Religious Publics, Howard University, Interdisciplinary Research Building, Washington DC. February 27, 2019.
- 2019 **The Second International Multidisciplinary Breast Conference**, February 22-23, 2019, Dubai, UAE.
- 2018 **The International Multidisciplinary Breast Conference**, International Multidisciplinary Breast Conference co-sponsored by the UAE Chapter of the American College of Surgeons and the American Society of Breast Surgeons. February 15-17, 2018, Dubai, UAE.
- 2017 **San Antonio Breast Cancer Symposium**, December 5-9, 2017, Henry B. Gonzalez Convention Center, San Antonio, Texas, USA.
- 2016 **San Antonio Breast Cancer Symposium**, December 6-10, 2016, Henry B. Gonzalez Convention Center, San Antonio, Texas, USA.
- 2016 **The American Society of Breast Surgeons**, 17th Annual Meeting. Pre-meeting course “High-risk patients and breast cancer genetics”; April 14, 2016. Dallas, Texas.
- 2014 **9th International Conference of Anticancer Research**, October 6-10, 2014. Sithonia, Greece.
- 2011 **The Charmettes Incorporated 56th Annual Convention**; Minority Health Issues, Up-to-date information on cancer treatments and research, with an emphasis on women’s health and wellness, May 18-22, 2011. Las Vegas, USA.
- 2010 **San Antonio Breast Cancer Symposium**, December 8-12, 2010, Henry B. Gonzalez Convention Center, San Antonio, Texas.
- 2009 **American Association for Cancer Research**, April 18-22, 2009, Denver, Colorado.
- 2008 **American Association for Cancer Research**, April 12-16, 2008, San Diego, CA.
- 2007 **American Association for Cancer Research**, April 14-18, 2007, Los Angeles, CA.
- 2005 **American Association for Cancer Research**, April 16, 2005, Anaheim, CA.

Workshops

- 2023 **14th Howard University College of Medicine Annual Faculty Retreat**, New Dawn for Development and Opportunity’ Demystifying and Embracing our Role in Justice Equity Diversity & Inclusion. Kellogg Conference Hotel , 25, 2023.
- 2023 **10x Genomics Boston User Group Meeting**, Le Méridien Boston Cambridge, MA, USA; April 11th, 2023; Via Zoom
- 2022 **13th Howard University College of Medicine Annual Faculty Retreat**, Mentorship-Enhancing Our Assets “The Continuum”, May 19, 2022. Via Zoom

- 2021 **12th Howard University College of Medicine Annual Faculty Retreat** "Navigating Medical Education, Clinical Care, and Research amidst a Pandemic". May 20, 2021; Via Zoom
- 2021 **University of Kentucky, Interactive Mentoring to Enhance Research Skills (IMERS) Virtual Grant Writing Workshop!** Virtual workshop; March 23-25, 2021.
- 2020 **Center for Excellence in Teaching, Learning, and Assessment** "Creating and Developing an Active Online Space that Creates Interactivity between Faculty and Students" Jul 9, 2020.
- 2020 **Howard University Louis Stokes Health Sciences Library** Demystifying the Library Databases: PubMed, MeSH, & Evidence-Based Searching. March 26, 2020.
- 2019 **Howard University College of Medicine, Annual Faculty Retreat.** AAMC Headquarters 655 K Street NW, Washington D.C. 20001. May 30, 2019. The theme of the retreat: 1) Virtual Reality; Moving to competency-based medical education; 3) Health System Change: A medical student's guide to advocacy; 4) Introducing Modified Mini Clinical Evaluation into the Preclinical Medical Clerkships; 5) Enhancing Psychiatric Training and Promoting Health Equity through Case-Based Learning; 6) Centering Prenatal Care in Residency.
- 2019 **Research Center in Minority Institutions (RCMI), Ingenuity Pathway Analysis (IPA) Seminar & Hands-on Training.** April 10, 2019. Interdisciplinary Research Building 2201 Georgia Avenue Northwest, Washington. D.C.
- 2018 **Howard University College of Medicine, Annual Faculty Retreat** (May 2018) AAMC Headquarters 655 K Street NW, Washington D.C. 20001. The theme of the retreat: 1) Metacognition: The Key to Increasing the Success of At-Risk Students, 2) Developing Strategies for Teaching Metacognitive Learning Strategies, 3) Adaptive Learning Resources for Students, 4) Benefits of a Vertical Integration for At-Risk Students.
- 2018 **Howard University College of Medicine, Office of Faculty Development, Next Generation Sequencing Workshop Series (Part I).** HUCM, Washington DC, April 5th, 2018.
- 2017 **Howard University College of Medicine, Office of Faculty Development, Effective Active Learning Facilitation Workshop.** HUCM, Washington DC, August 25, 2017. Howard University College of Medicine, Annual Faculty Retreat. AAMC Headquarters 655 K Street NW, Washington D.C. 20001. May 25th, 2017. The theme of the Annual Faculty Retreat for HUCM is Innovating and Updating the Medical School Curriculum.
- 2017 **Howard University, University of Kentucky; Grant Writing Workshop,** Louis Stokes Health Sciences Library, 501 W St., NW, Washington D.C. May 17-18, 2017. The aim of the workshop is to learn the essentials of writing successful NIH proposals.
- 2017 **PRIMER, IRB Administrator Boot Camp, Hyatt Regency, Baltimore, Maryland.** May 6-8, 2017
IRB Administrator 101 is a one-and-a-half-day program that provides a holistic look into the many functions and components of an HRPP. To 1) Identify the primary responsibilities of IRB administrators and staff; 2) Implement strategies and policies for creating a culture of compliance and ethical responsibility; 3) Discuss methods for ensuring administrators and staff support, improve, and strengthen your HRPP.
IRB Administrator 201 is a one-and-a-half-day course that will provide knowledge to address issues, strategies an IRB administrator and chair can implement, and skills needed to successfully carry out responsibilities related to IRB oversight. The aims of this course to learn a framework to ensure having the knowledge, skills, and strategies to address questions like: 1) Where do I fit into the IRB and how does the IRB fit into my HRPP? 2) How do I implement effective communication pathways between stakeholders and the HRPP? 3) Which projects require IRB review? 4) When can informed consent or

- documentation thereof be waived? 5) What questions should I be asking the principal investigator? 6) What are the important elements of an IRB reliance agreement and how do I implement and track them?
- 2016 **Research with Vulnerable populations, and Strategies for Minority Recruitment.** Office of Regulatory Research Compliance. Louis Stokes Health Sciences Library, 501 W St., NW, Washington, D.C. 20059. February 18, 2016.
The aim is to discuss research with vulnerable populations, and strategies for overcoming barriers to minority recruitment.
- 2016 **How do I get promoted?** Academic advancement, promotions, and tenure (APT) at Howard University College of Medicine. Howard University College of Medicine, Office of Faculty Development. Seeley G Mudd Building, March 24, 2016.
- 2016 **Howard University Cancer Center Retreat;** Louis Stokes Health Sciences Library. Howard University, Washington D.C., June 26, 2016.
- 2014 **Elsevier Publisher "How to Get Your Article Published",** Louis Stokes Health Sciences Library, Howard University, September 17, 2014.
- 2014 **The First International Workshop on Plasma for Cancer Treatment,** Marvin Center George Washington University, Washington, DC., 03/25/2014-03/26/2014.
- 2014 **HU ADVANCE-IT writing retreat;** Osprey Point 6670 Cedar Cove Road; Royal Oak, MD 21662; 02/06/2014-02/08/2014.
- 2013 **Wiley Publishing Workshop,** Louis Stokes Health Sciences Library, Howard University. Oct. 24, 2013.
- 2013 **Quantitative Methods Workshop,** Room C-133K, CB Powell Communications Building, 525 Bryant Street NW, Washington DC. 5/20/2013-5/31/2013.
- 2012 **The item writing workshop** (12/13/2012), Sponsored by the Office of Faculty Development/HUCM, in conjugation with National Board of Medical Examiners (NBME). Howard University College of Medicine, Washington DC.
- 2012 **Think Tank on Use of Metabolomics in Population-Based Research** (September 27, 2012). Neuroscience Building, 6001 Executive Blvd., Rockville, MD 20852.
- 2012 **LC/MS Applications in Biomedical Research** (2/28/2012) Workshop. Sponsored by Agilent Tech. Inc. NIH, Rockville. MD.
- 2012 **Advising is not enough: mentoring matters!** Workshop (2/9/2012): GTHU Center for Clinical Translational Science/Research center in Minority Institutions (RCMI) Program. Howard University College of Medicine, Washington, DC.
- 2011 **Howard University College of Medicine, Faculty Retreat** (2011)
Workshops: a) Grant Review, b) Manuscript Review.
- 2010 **The Scientific of Western Blotting** (2010), Howard University Cancer Center, June 2010.
- 2009 **Institution/Cancer Center Partnership** (MI/CCP) Funded Investigators Workshop (September 17, 2009), NIH, Legacy Hotel & meeting Center, Rockville Pike, MD.
- 2008 **DC Cancer Consortium Breast Cancer Conference** "Discovery through Recovery: A Comprehensive Approach to Breast Cancer in the District". November 5, 2008. Kellogg Conference Hotel, Gallaudet University. Washington, DC.
- 2008 **Discovery Day "from Quality RNA to Microarrays to Real Time PCR:** Discover New Technologies and Applications". October 22, 2008. Bldg. 40, NIH, Bethesda.
- 2008 **Biospecimen Research Network Symposium:** NCI/NIH, "Advancing Cancer Research through Biospecimen Science". March 13-14, 2008. Renaissance M Street Hotel, Washington, DC.
- 2007 **Early Career Women Faculty Seminar,** AAMC, July 7-11, 2007; Washington, DC.
- 2006 **Applied Biosystem Gene Expression Technical Seminar Series** (Spring Training workshop), May 25, 2006. Georgetown University, Washington, DC.
- 2006 **CME: Human Genetics Course,** Harvard Medical School, Scholars in Clinical Science Program, March 16-19, 2006.
- 2005 **Eight Annual Grant Writing Workshop,** AACR, April 16, 2005, Anaheim, CA.

INVITED SPEAKER PARTICIPATION

International

- 2023 **Presenter: Metabolic Profiles Distinguish Breast Cancer Progression in African American Women. Theme:** “Exchanging ideas in cancer prevention”, Global Congress on Cancer Research & Therapy Conference, NH Roma Villa Carpegna, Rome Italy; September 18 & 19, 2023.
- 2022 **Presenter & Session Chair:** The Association of a Novel Identified VDR SNP With Prostate Cancer in African American Men. Symposium on World Cancer Research (SWCR), InterContinental Singapore, Singapore, May 6-8, 2022.
- 2020 **Workshop (Discussant): Promising practices for improving the inclusion of women in science, engineering, and medicine:** Lessons from Kuwait and the United States-Workshop two. The workshop features leaders in academia, government, and business, and focuses on successful strategies and programs in both countries that increase opportunities for women focusing on gender stereotypes and gendered family roles; retention and career development; and mentoring and organizational change. Virtual, The National Academies of Sciences, Engineering, and Medicine. Virtual, October 5-7, 2020.
- 2019 **Workshop (Presenter): Promising practices for improvement the inclusion of women in science, engineering, and medicine:** Lessons from Kuwait and the United States Workshop. Speaker “Effective programs to attract and prepare women in major in a science-related discipline”. Panel member: Evidence of effective programs, practices, and models in both countries for recruiting women in science, engineering, and medicine. The National Academies of Sciences, Engineering, and Medicine; 2101 Constitution Avenue NW, Washington DC, October 28-29, 2019.
- 2014 **Presenter: Metabolic Profile of Triple-negative Breast Cancer in African American Women** Reveals Potential Biomarkers of Aggressive Disease. 9th International Conference of Anticancer Research; Sithonia, Greece; October 9, 2014.

National

- 2019 **Panel: Breast Cancer Panel Discussion: Pink Hats & Blue Ties Lovingkindness Community Development Corporation** (CDC). Colony South Hotel and Conference Center; 7401 Surratts Rd, Clinton, MD 20735, December 7, 2019.
- 2014 **Workshop: National Women History Month & Triple Negative Day** “What is Breast Cancer & Understanding Triple Negative Breast Cancer”; Sisters Network Prince George's County; Kaiser Permanente, 1221 Mercantile Lane, Upper Marlboro, MD 20774, March 15, 2014.
- 2013 **Workshop: The Annual Convention of the Charmettes Incorporated, workshop** “Breast cancer surveillance and risk reduction”. The Grand Hyatt Hotel, Atlanta, GA, May 16-19, 2013. Minority 2010 Health Issues, Up-to-date information on cancer treatments and research, with an emphasis on women’s health and wellness. The Charmettes Incorporated, 55th Annual Convention. Wyndham Nassau Resort, Nassau, Bahamas, May 20-23, 2010.
- 2010 **Seminar: Breast Health Summit:** New Studies and Research-Breast Cancer “BRCA2 mutations in African American Women”. Providence Hospital, Washington, DC, October 2, 2010.
- 2009 **Seminar: A Passionately Pink for the Cure, a Breast Cancer Awareness Event** for Hospital Employees “Breast cancer and genetic testing” Providence Hospital, Washington DC, October 15, 2010.
- 2009 **Workshop: Molecular profiles demonstrate heterogeneity among triple-negative breast cancers.** Minority Institution/Cancer Center Partnership (MI/CCP) Funded Investigators Workshop; NIH/NCI, September 17, 2009.
- 2007 **Workshop: Genetic Susceptibility for Breast Cancer:** How Many More Genes to be found? “Health Disparities in Estrogen Receptor Negative Breast Cancer”, Think Tank Symposium, NIH, November 1-2, 2007.

Local

- 2015 **Dean's Interdisciplinary Research Series**, Howard University College of Medicine. Metabolomic Profile of Triple Negative Breast Cancer, Howard University Hospital., Washington DC, March 23, 2015.
- 2012 **Dean's Interdisciplinary Research Series, Howard University College of Medicine**. UV exposure, vitamin D and prostate cancer in African American men. Howard University Hospital, Washington DC, November 20, 2012.
- 2010 **Dean's Interdisciplinary Research Series, Howard University College of Medicine**. Molecular Profile of a Basal-Like Phenotype of Breast Cancer in African American Women. Howard University Hospital, Washington DC, March 22, 2010.

PUBLICATIONS

Book Chapters

1. **Book Title:** Encyclopedia of Information Science and Technology (Volume III; 4th Edition; Chapter 156; pp. 1794-1805) **Chapter Title:** Exploratory Data Analysis on Breast Cancer Prognosis. Authors: M. Mehdi Owrang, **Yasmine Kanaan**, Robert L. Copeland, Melvin Gaskins, Robert L. DeWitty (June 2017). IGI Global Publishing. DOI: 10.4018/978-1-5225-2255-3. <https://www.igi-global.com/chapter/exploratory-data-analysis-on-breast-cancer-prognosis/183895>
2. **Book Title:** “Acupuncture”/ Book 1; **Chapter title:** Degeneration/Regeneration as a Mechanism Contributing to the Effect of Manual Acupuncture-Induced Injury on Rat Skeletal Muscle. Authors: Ameis K, Bond V and **Kanaan Y** (October 10, 2011); INTECH Open Access Publisher (ISBN: 978-953-307-410-8). <https://www.intechopen.com/books/acupuncture-concepts-and-physiology/degeneration-regeneration-as-a-mechanism-contributing-to-the-effect-of-manual-acupuncture-induced-in->

Per-reviewed articles

1. Almohaywi M, Sugita BM, Centa A, Fonseca AS, Antunes VC, Fadda P, Mannion CM, Goldberg SL, Campbell M, Copeland RL, **Kanaan Y**, Cavalli LR (2023) Deregulated miRNA expression in triple-negative breast cancer of ancestral genomic characterized Latina patients. Deregulated miRNA Expression in Triple-Negative Breast Cancer of Ancestral Genomic-Characterized Latina Patients. International Journal of Molecular Sciences. 2023; 24(17):13046. <https://doi.org/10.3390/ijms241713046>
2. Ricks-Santi LJ, Fredenburg K, Rajaei M, Esnakula A, Naab T, McDonald JT, **Kanaan Y** (2023) Characterization of GATA3 and Mammaglobin in breast tumors from African American Women. Arch Microbiol Immunol. 2023;7(1):18-28. doi: 10.26502/ami.936500101. Epub 2023 Mar 17. PMID: 37383682; PMCID: PMC10305425.
3. Beyene D, Naab T, Ricks-Santi L, Esnakula A, Qasim M, George G, Minoza KG, Copeland RL, Broome C, **Kanaan Y** (2023) Cyclin A2 and Ki67 proliferation markers could be used to identify tumors with poor prognosis in African American women with breast cancer. J Cancer Biol. 2023 Jun 2, 4(1): 3–16. doi:10.46439/cancerbiology.4.048. PMCID: PMC10238075
4. Qasim M, Ricks-Santi LJ, Naab TJ, Rajack F, Beyene D, Abbas M, Kassim OO, Copeland RL, **Kanaan Y** (2022). Inverse Correlation of KISS1 and KISS1R Expression in Triple-negative Breast Carcinomas from African American Women. Cancer Genomics Proteomics. 2022 Nov-Dec;19(6):673-682. doi: 10.21873/cgp.20350. PMID: 36316037.
5. **Kanaan Y**, Copeland RL (2022) The link between prostate cancer and vitamin D. *Nat Rev Cancer*. 2022 Aug;22(8):435. doi: 10.1038/s41568-022-00493-y. PMID: 35761063
6. Copeland RL, **Kanaan Y** (2021) New targets in triple negative breast cancer. *Nat Rev Cancer*. 2021 Dec;21(12):744. doi: 10.1038/s41568-021-00415-4. PMID: 34621048.
7. Cheng X, Murthy SRK, Zhuang T, Ly L, Jones O, Basadonna G, Keidar M, **Kanaan Y**, Canady J (2021) Canady Helios Cold Plasma Induces Breast Cancer Cell Death by Oxidation of Histone mRNA. *Int. J. Mol. Sci.* 2021 Sep 3;22(17):9578. doi: 10.3390/ijms22179578. PMID: 34502492; PMCID: PMC8430908.
8. Yan Y, Narayan A, Cho S, Cheng Z, Liu JO, Zhu H, Wang G, Wharram B, Lisok A, Brummet M, Saeki H, Huang T, Gabrielson K, Gabrielson E, Cope L, **Kanaan YM**, Afsari A, Naab T, Yfantis HG, Ambs S, Pomper MG, Sukumar S, Merino VF (2021) CRY β B2 enhances tumorigenesis through upregulation of nucleolin in triple negative breast cancer. *Oncogene*. Sep;40(38):5752-5763. doi: 10.1038/s41388-021-01975-3. Epub 2021 Aug 2. PMID: 34341513
9. Turkistani S, Sugita BM, Fadda P, Marchi R, Afsari A, Naab T, Apprey V, Copeland RL Jr, Campbell MC, Cavalli LR, **Kanaan Y** (2021) A panel of miRNAs as prognostic markers for African American patients with triple negative breast cancer. *BMC Cancer*. 2021 Jul 27;21(1):861. doi: 10.1186/s12885-021-08573-2. PMID: 34315420; PMCID: PMC8317413.

10. Williams CD, McMillian SD, Harris K, Gonzalez F, Oseghe CC, **Kanaan YM**, Richardson F (2021) Challenge Meets Opportunity: A Community-Academic Collaboration Response to COVID-19. HUCM Research Digest, Spring 2021, 1(1), P:20-25.
11. Robinson AG, **Kanaan YM**, Copeland RL (2020) Combinatorial Cytotoxic Effects of 2,3-Dichloro-5,8-dimethoxy-1,4-naphthoquinone and 4-hydroxytamoxifen in Triple-negative Breast Cancer Cell Lines. *Anticancer Res.* Dec;40(12):6623-6635. doi: 10.21873/anticancer.14687. Epub 2020 Dec 7. PMID: 33288557.
12. Beyene D, Daremipouran MR, Apprey V, Naab T, Kassim OO, Copeland RL, **Kanaan YM** (2020) The Association Between the Genetic VDR SNP c.907+75C>T and Prostate Cancer Risk is Modified by Tanning Potential. *Cancer Genomics Proteomics.* Nov-Dec 2020;17(6):739-745. doi: 10.21873/cgp.20228. PMID: 33099475.
13. Abbas M, Mason T, Ibad A, Khraiweh M, Apprey V, **Kanaan Y**, Wilson B, Dunston G, Ricks-Santi L, Brim H (2020) Genetic Polymorphisms in IL-10 Promoter Are Associated with Smoking and Prostate Cancer Risk in African Americans. *Anticancer Res.* January; 40(1):27-34. PMID:31892550.
14. Daremipouran MR, Beyene D, Apprey V, Naab TJ, Kassim O, Copeland RL, **Kanaan YM** (2019) The association of a novel identified VDR SNP with prostate cancer in African American men. *Cancer Genomics Proteomics.* 2019 Jul-Aug;16(4):245-255. doi:10.21873/cgp.20129. PubMed ID: 31243105.
15. Owrang M, **Kanaan YM**, DeWitty RL JR (2019) Ethnicity-related survival analysis of patients with triple-negative breast cancer. *EPiC Series in Computing. Proceedings of 34th International Conference on Computers and Their Applicants.* Volume 58, Pages 236-246. <https://easychair.org/publications/paper/hXq1>
16. Moses-Fynn E, Tang W, Beyene D, Apprey V, Copeland R, **Kanaan Y**, Kwabi-Addo B (2018) Correlating Blood-Based DNA Methylation Markers and Prostate Cancer Risk in African American men. *PLoS One*, Sept. 11;13(9): e0203322. PMID: 30204798.
17. Ren X, Ghassemi P, **Kanaan YM**, Naab T, Copeland RL, Dewitty RL, Kim I, Strobl JS, Agah M (2018) Kernel-Based Microfluidic Constriction Assay for Tumor Sample Identification. *ACS Sens.* Aug 24;3(8):1510-1521. doi: 10.1021/acssensors.8b00301. PMID: 29979037.
18. Wilson BD, Ricks-Santi LJ, Mason TE, Abbas M, Kittles RA, Dunston GM, **Kanaan YM** (2018) Admixture Mapping Links RACGAP1 Regulation to Prostate Cancer in African Americans. *Cancer Genomic and Proteomics*, May-June; 15(3):185-191. PMID:29695400.
19. Khan F, Ricks-Santi LJ, Zafar R, **Kanaan Y**, Naab T (2018) Expression of p27 and c-Myc by immunohistochemistry in breast ductal cancers in African American women. *Annals of Diagnostic Pathology*, Jun; 34:170-174. PMID:29715580.
20. Khan F, Esnakula A, Ricks-Santi LJ, Zafar R, **Kanaan Y**, Naab T (2018) Loss of PTEN in High Grade Advanced Stage Triple Negative Breast Ductal Cancers in African American Women. *Pathology - Research and Practice* May; (17)31307-9. PMID: 29653745.
21. Naab TJ, Gautam A, Ricks -Santi L, Esnakula AK, **Kanaan YM**, DeWitty RL, Asgedom G, Makambi K, Abawi M, Blancato JK (2018) MYC Amplification in Subtypes of Breast Cancers in African American Women. *BMC Cancer*, March; 18:274-285. PMID: 29523126.
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Published Abstracts/Poster Presentations

1. Oladeru O, **Kanaan Y**, Naab T, Ricks-Santi LJ (2022) Quadruple negative breast tumors in African American women express factors associated with worse prognosis compared to triple negative tumors [abstract]. In: Proceedings of the American Association for Cancer Research Annual Meeting 2022; 2022 Apr 8-13. Philadelphia (PA): AACR; Cancer Res 2022;82(12_Suppl):Poster and Abstract # 3682.
2. Rajack F, Naab TJ, Ricks-Santi LJ, Qasim M, **Kanaan Y** (2022) Association of KISS1/ KISS1R Expression in Breast Cancer Subtypes in African American/Black Women. USCAP 112th Annual Meeting, March 19-24,2022, Los Angeles Convention Center – Los Angeles, CA. Poster #1953.
3. Stewart DA, Pathmasiri WW, Susan L, McRitchie SL, Naab TJ, DeWitty RL, Fripp VT, Beyene DA, Kassim OO, **Kanaan YM**, Sumner SJ, Copeland RL (2019) Common and unique breast and prostate cancer metabolic profiles in African Americans. 12th AACR Conference on the Science of Cancer Health Disparities in Racial/Ethnic Minorities and Medically Underserved. Hilton San Francisco Union Square, San Francisco, California, Sep 20-23, 2019. Poster # A085.
4. Anderson KS, Naab T, Kolosky LK, Anderson M, Lewis M, **Kanaan Y**, Afsari A, Ricks-Santi L, Pockaj BA, Barrett MT (2019) Tissue prevalence and cellular heterogeneity of 9p24.1 amplification in TNBC in African American women [abstract]. In: Proceedings of the 2019 San Antonio Breast Cancer Symposium; 2019 Dec 10-14; San Antonio, TX. Philadelphia (PA): AACR; Cancer Res 2020;80(4 Suppl): Abstract nr P2-10-17.
5. Stewart D, Pathmasiri WW, McRitchie SL, Buckley L, Naab, TJ, DeWitty RL, Fripp VT, Cooke-Sampson E, Beyene D, Ricks-Santi L, Copeland RL, Sumner SJ, **Kanaan YM** (2018) Metabolic profiles distinguish breast cancer progression in African American women. American Association of Cancer Research Annual meeting. McCormick Place North/South, Chicago, Illinois, USA. April 14-18, 2018. Poster #3603. DOI: 10.1158/1538-7445.AM2018-3603.
6. Stewart D, Pathmasiri WW, McRitchie SL, Buckley L, Naab, TJ, DeWitty RL, Fripp VT, Cooke-Sampson E, Beyene D, Ricks-Santi L, Copeland RL, Sumner SJ, **Kanaan YM** (2018) Metabolic profiles distinguish breast cancer progression in African American women (nutritionally focused). Poster presented at the Nutrition Research Institute's Defining Precision Nutrition Symposium, Kannapolis, NC.
7. Safaa Turkustani, Tammey Naab, Muhammad M Hassan, Luciane Cavalli, **Yasmine M Kanaan** (2018) Expression of miRNA-150-5p in triple negative breast cancer of African American and Non-Hispanic White patients. Armour Blackburn Center, HU, April 12, 2018.
8. Bernard Kwabi-Addo, Emmanuel Moses-Fynn, Wei Tang, Desta Beyene, Victor Apprey, **Yasmine Kanaan**. Correlating blood-based DNA methylation markers and prostate cancer risk factors in African American men [abstract]. In: Proceedings of the American Association for Cancer Research Annual Meeting 2018; 2018 Apr 14-18; Chicago, IL. Philadelphia (PA): AACR; Cancer Res 2018;78(13 Suppl): Abstract nr 3327.
9. Delisha A. Stewart, Wimal W. Pathmasiri, Susan L. McRitchie, Lance Buckley, Tammey J. Naab, Robert L. DeWitty, Jr, Vikisha T. Fripp, Estelle Cooke-Sampson, Desta A. Beyene, Luisel Ricks-Santi, Robert L. Copeland, Jr, Susan J. Sumner, and **Yasmine M. Kanaan** (2018) Metabolic profiles distinguish breast cancer progression in African American women. AACR, Poster #3603, Chicago, IL, USA, April 14-18, 2018.
10. Tammey Naab, **Yasmine M Kanaan**, Luciane Cavalli, Muhammad M Hassan. Expression of miRNA-150-5p in triple negative breast cancer of African American and Non-Hispanic White patients (abstract #265) In: 107th Annual Meeting of United States and Canadian Academy of Pathology (USCAP); 2018 March 17-23; Vancouver, BC, Canada. *Mod Pathol.* issue supplement 2 (March 2018); *Modern Pathology* volume 31, pages 42-122 (2018) doi:10.1038/modpathol.2018.3
11. Farhan Khan, **Yasmine Kanaan**, Luisel J Ricks-Santi, Rabia Zafar, Hagos Aymut, Tammey Naab (2017) PDL1 expression associated with triple negative breast ductal carcinomas in African American

- women. (Abstract #607). AACR Annual Meeting; Washington DC. *Cancer Res* July 2, 2017, 77 (13 Supplement) 607-607; DOI:10.1158/1538-7445.AM2017-607.
12. Farhan Khan, **Yasmine Kanaan**, Luisel J Ricks-Santi, Rabia Zafar, Tammey J Naab. Strong Expression of HSP27, HSP60 and BCL2 Associated with Luminal Subtypes of Breast Ductal Carcinomas in African American Women (abstract #192) In: 106th Annual Meeting of United States and Canadian Academy of Pathology (USCAP); 2017 March 4-10; San Antonio, TX, USA. *Mod Pathol.* volume 30, issue S2 (February 2017); *Mod Pathol* 30: 27-81; doi:10.1038/modpathol.2016.241.
13. Farhan Khan, **Yasmine Kanaan**, Robert L Copeland Jr, Delisha Stewart, Tammey J Naab. Metabolomic Profiling Reveals Upregulated Fatty Acid Metabolism in Ductal Breast Cancers from African American Women (abstract #193) In: 106th Annual Meeting of United States and Canadian Academy of Pathology (USCAP); 2017 March 4-10; San Antonio, TX, USA. *Mod Pathol.* volume 30, issue S2 (February 2017); *Mod Pathol* 30: 27-81; doi:10.1038/modpathol.2016.241
14. Farhan A Khan, Tammey J Naab, Luisel J Ricks-Santi, **Yasmine Kanaan** (2016) KLF4 Expression in High-Grade Hormone Receptor–Negative and HER2-Positive Breast Ductal Cancers in African American Women (Poster No. 146) (2016) Abstracts and Case Studies from the College of American Pathologists 2016 Annual Meeting (CAP16). *Archives of Pathology & Laboratory Medicine*: September 2016, Vol. 140, No. 9, pp. e2-e244. <https://doi.org/10.5858/arpa.2016-0246-AB>.
15. Farhan A Khan, Tammey J Naab, Luisel J Ricks-Santi, **Yasmine Kanaan**, Desta Beyene, Tamara Hudson (2016) HSP60 expression associated with luminal subtypes of breast ductal carcinomas in African American women (poster No. 123) (Abstracts and case studies from the College of American Pathologists 2016 Annual Meeting <https://doi.org/10.5858/arpa.2016-0246-AB>).
16. Ashley Queen, Muneer Abbas, Nicole Thompson, Christian Parry, Luisel Ricks-Santi, **Yasmine Kanaan** (2016) Characterization of BRCA1 SNPS of unknown clinical significance in breast cancer. Howard University Research Week; Howard University Blackburn Center, May 14, 2016.
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19. Farhan Khan, Tammey Naab, Luisel Ricks-Santi, **Yasmine Kanaan**, Girmay Asgedom (2016) Loss of PTEN in High Grade Advanced Stage Triple Negative Breast Ductal Cancers in African American Women. In: 105th Annual Meeting of United States and Canadian Academy of Pathology (USCAP); 2016 March 12-18; Seattle, WA, USA: *Mod Pathol.* 2016 March; 16:49A doi:10.1038/modpathol.2016.3 (Abstract # 187).
20. Cha'Tonya Brown, John McDonald, Muneer Abbas, Georgia Dunston, Yasmine Kanaan, Luisel Ricks-Santi (2015) BRCA1 and BRCA2 mutational spectra in African American men with prostate cancer. Eighth AACR Conference on The Science of Cancer Health Disparities in Racial/Ethnic Minorities and Medically Underserved". November 13-16, 2015.
21. Farhan Khan, Luisel Ricks-Santi, **Yasmine Kanaan**, Tammey Naab (2015) Strong Correlation of p53 Expression with High Grade Advanced Stage Triple Negative Breast Ductal Cancers in African American Women. In: College of American Pathologists (CAP), Annual Meeting; 2015 October 04 – 07; Nashville, TN, USA. *Arch Pathol Lab Med.* 2015 Oct; 139(10):1201 (Abstract#80).
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28. Ashwini K Esnakula, Luisel J Ricks-Santi, **Yasmine Kanaan**, Tammey J Naab. ERCC1 Expression in Breast Ductal Cancers in African American Women [abstract]. In: 103rd Annual Meeting of United States and Canadian Academy of Pathology (USCAP); 2014 March 1-7; San Diego, CA. Augusta (GA): Mod Pathol. 2014 Feb; 27:47A (abstract#179). doi:10.1038/modpathol.2014.7
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32. Tammey J Naab, Luisel J Ricks-Santi, **Yasmine Kanaan**, Ashwini K Esnakula (2014) Androgen Receptor Expression in Subtypes of Breast Ductal Cancer in African American Women [abstract]. In: 103rd Annual Meeting of United States and Canadian Academy of Pathology (USCAP); 2014 March 1-7; San Diego, CA. Augusta (GA): Mod Pathol. 2014 Feb; 27:69A (abstract#269) doi:10.1038/modpathol.2014.7.
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34. Mason K, Abbas A, Dunston G, Beyene, **Kanaan Y**, Yue Q, Hudson T (2014) Genetic Variation within the Vitamin D Binding Protein and its association with Prostate Cancer Risk in African American Men. Howard University Research Day, April 4, 2014.
35. Tammey J Naab, Ashwini K Esnakula, Luisel J Ricks-Santi, **Yasmine Kanaan**, Bert Gold (2013) Aldehyde Dehydrogenase 1(ALDH1) Expression in Non-Lobular Breast Carcinomas in African American Women [abstract]. In: 102nd Annual Meeting of United States and Canadian Academy of Pathology (USCAP); 2013 March 2-6; Baltimore, MD, USA. Mod Pathol. 2013 Feb; 26:57A (Abstract#229).
36. Ashwini K Esnakula, Luisel J Ricks-Santi, Wayne A.I Frederick, **Yasmine Kanaan**, Tammey J Naab (2013) Insulin Growth Factor Receptor-1 (IGF-1R) Overexpression is Associated with Hormone Receptor Positive Ductal Carcinomas in African American women [abstract]. In: 102nd Annual Meeting of United States and Canadian Academy of Pathology (USCAP); 2013 March 2-6; Baltimore, MD. Augusta (GA): Mod Pathol. 2013 Feb; 26:38A (abstract#150).
37. Ashwini K Esnakula, Tammey J Naab, Luisel J Ricks-Santi, Wayne A.I Frederick, Robert L DeWitty, Jr, **Yasmine Kanaan** (2013) Metabolomic Profiling Reveals Increased Arginine Metabolism in ER-Breast Cancers from African American Women [abstract]. In: 102nd Annual Meeting of United States and Canadian Academy of Pathology (USCAP); 2013 March 2-6; Baltimore, MD, USA. Mod Pathol. 2013 Feb; 26:39A (Abstract#151).
38. Ashwini K Esnakula, Tammey J Naab, Luisel J Ricks-Santi, Wayne A.I Frederick, Robert L DeWitty, Jr, **Yasmine Kanaan** (2013) Fumarate, an Oncometabolite is Elevated in ER-Breast Cancers from African American Women [abstract]. In: 102nd Annual Meeting of United States and Canadian Academy of Pathology (USCAP); 2013 March 2-6; Baltimore, MD, USA. Mod Pathol. 2013 Feb; 26:39A (Abstract#152).
39. Blackman KW, Anderson BJ, Dasi SK, Daremipouran M, **Kanaan YM**, DeWitty RL (2013) Analysis of triple negative breast cancer cases at Howard University Hospital from 2000 to 2011. Howard University Research Day, April 4, 2013.
40. Ashwini K Esnakula, Tammey J Naab, Luisel J Ricks-Santi, Sylvia Dasi, Henry Paul Jr, Robert L DeWitty, Jr, Wayne A.I Frederick, Edward Gabrielson, **Yasmine Kanaan** (2012) Metabolomic transmethylation profiling reveals differences in ER- compared to ER + breast cancer in African American Women. In: 101st Annual Meeting of United States and Canadian Academy of Pathology (USCAP); 2012 March 17-23; Vancouver, BC, Canada. Mod Pathol. 2012 Feb; 25:37A (Abstract#143).
41. Ashwini K Esnakula, Tammey J Naab, Luisel J Ricks-Santi, Wayne A.I Frederick, Robert L DeWitty Jr, and **Yasmine Kanaan** (2012) Metabolomic profiling reveals upregulated glycolysis (Warburg effect) and increased NAD⁺ biosynthesis in ER- breast cancers from African American Women. In: American Society of Clinical Pathology (ASCP) annual meeting; 2012 Oct 31- Nov 3; Boston, MA, USA. Am J Clin Pathol 2012;138: A286 (Abstract#286).
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43. Esnakula AK, Ricks-Santi LR, **Kanaan YM**, Naab TJ (2012) Endoglin (CD105) Expression Associated with HER Breast Cancer Subtype and Prognosis in African American Women (2012) United States & Canadian Academy of Pathology (USCAP/IAP) Annual Meeting; March 17-23, 2012, Vancouver Convention Center, Vancouver, BC, Canada. Mod Pathol. 2012 Feb; 25:55A (Abstract#218).
44. Ricks-Santi LR, Esnakula AK, **Kanaan YM**, Frederick W, Dunston GM, Naab TJ (2012) Prognostic indicators associated with breast cancer molecular subtypes in African American women. American Association of Clinical Research (AACR) Annual Meeting March 31-April 4, Chicago.
45. Ashwini K Esnakula, Luisel J Ricks-Santi, **Yasmine Kanaan**, Tammey Naab (2012) Cytoplasmic Beta-Catenin Expression Associated with Triple Negative and HER2 Positive Breast Cancer in

- African American Women. In: 101st Annual Meeting of United States and Canadian Academy of Pathology (USCAP); 2012 March 17-23; Vancouver, BC, Canada. Mod Pathol. 2012 Feb; 25:37A (Abstract#144).
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47. Kamal Ameis, **Yasmine Kanaan**, Mohammad Daremipouran, Hakima Amri (2010) Acupuncture Needle Manipulation and Skeletal Muscle Regeneration. [Society for Acupuncture Research - Translational Research in Acupuncture: Bridging Science, Practice and Community \(SAR 2010\)](#) Chapel Hill, North Carolina, USA, March 19-21, 2010.
48. Mohamad Daremipouran, Desta Beyene, Sayed Mehdi, **Yasmine Kanaan** (2010) Vitamin D receptor polymorphisms and prostate cancer risk in African American. AACR, Annual meeting, Washington DC, April 17-21. Abstract # 2798.
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51. **Yasmine M. Kanaan**, Jharna R. Das, Oladapo Bakare, Desta Beyene, Agnes Day, Robert L. Copeland Jr. (2009) Cytotoxic effects of a novel dicloronaphthoquinone analogue on human breast cancer cell lines. AACR, Colorado, April 18-22.
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57. Robert L Copeland, Jr., Jharna R Das, **Yasmine Kanaan**, Oladapo Bakare (December 2006) Synthesis and evaluation of imido-substituted -naphthoquinone derivatives as inhibitor of kinases of the Ras-MAPK signaling cascade, RCMI, San Juan, Puerto Rico.
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63. Leggett Y, **Kanaan Y**, Copeland R, (2003) Caspase 3 Attenuation by Nicotine in Human SH-SY5Y Neuroblastoma Cells Treated with Salsolinol, Soc Neuroscience,
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