

## **Douglas F. White, Ph.D.**

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### ***PROFILE***

- Outstanding academic instruction skills, with experience preparing and delivering lectures, and developing classroom curriculum.
  - Searched, analyzed, integrated, categorized, summarized, and applied a broad spectrum of biomedical, molecular biological and microbiological-related prior art to ensure that an invention is new and unique.
  - Analyzed scientific research progress reports spanning a wide array of diseases and disorders to ensure concurrence with statements of work.
  - Well organized and capable of meeting deadlines under pressure.
  - Proven ability to perform all aspects of research for a wide array of scientific research projects.
  - Prepared and submitted multiple scientific research publications, presentations and posters.
  - Experienced Biologist / Molecular Biologist with a strong background in research and instruction of various biology-related subjects. Extensive background in microbiology, cancer and disease research.
  - Outstanding academic instruction skills, with experience preparing and delivering lectures, and developing classroom curriculum.
  - Strong background in the planning and execution of experiments in various laboratory environments including experience preparing and performing laboratory assays.
  - Exceptional verbal and written communication skills; interface at ease with professionals from a variety of scientific disciplines.
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### ***EDUCATION***

#### **HOWARD UNIVERSITY**

##### ***PhD in Microbiology***

GPA: 3.72/4.0; 106 Credits, Includes 3 credits in Medicine

Dissertation: "Biological Evaluation of Imido-Substituted Chloro- 1,4-Naphthoquinone Derivatives on Prostate Cancer Cell Lines"

**Washington, DC**

May 2008

#### **HAMPTON UNIVERSITY**

##### ***Masters of Science in Biology***

GPA: 3.7/4.1; 42 Credits

**Hampton, VA**

December 1997

#### **LONGWOOD COLLEGE**

##### ***Bachelors of Science in Biology***

GPA: 3.0/4.0; 138 Credits

**Farmville, VA**

May 1994

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## ***PROFESSIONAL EXPERIENCE***

**HOWARD UNIVERSITY**  
***Biology 101/102 Course Coordinator***  
**Department of Biology**

**Washington, DC**  
**August 2021 – Present**  
**Full Time**

- ***INSTRUCTION AND COURSE DESIGN:*** Provide instruction in Biology 101/102 to 750+ students. Prepared daily coursework, including lectures, quizzes, activities, and exams.
- ***COURSE MANAGEMENT:*** Prepared the syllabi for Biology 101/102, coordinated teaching assignments to faculty teaching Biology 101/102. Calculate and report grades. Use Blackboard and Canvas Course management systems to communicate assignments to students, provide students access to course documents, and provide access to online gradebook.

**MONTGOMERY COLLEGE**  
***Adjunct Professor***  
**Department of Biology**

**Rockville, MD**  
**August 2021 – Present**  
**10 Hours/Week**

- ***INSTRUCTION AND COURSE DESIGN:*** Instruct Microbiology classes and laboratories. Prepare and deliver lectures, quizzes and exams. Designed and developed classroom materials and assignments. Provide instruction on a wide array of topics including General Properties of Microorganisms; Microbial Metabolism; Microbial Genetics; General Characteristics, Structures of and diseases caused by Bacteria, Viruses, Fungi, and Parasites; and Control of Microbial Growth.
- ***COURSE MANAGEMENT: Calculate and report grades.*** Use Blackboard Course management system to communicate assignments to students, provide students access to course documents, and provide access to online gradebook.

**US PATENT AND TRADEMARK OFFICE (USPTO)**  
***Patent Examiner***

**Alexandria, VA**  
**February 2011 – December 2020**  
**40 Hours/Week**  
**GS 12/5**

- ***SCIENTIFIC ANALYSIS AND EVALUATION:*** Researched new innovative biological and microbiological inventions/abstracts submitted for evaluation and comparison of current methods and practices to determine if the new approach was uniquely allowed/granted. Patents were evaluated to determine if they conformed to formal application requirements. Searched, analyzed, integrated, categorized, summarized, and applied a broad spectrum of biomedical, molecular biological and microbiological-related prior art (information that has been disclosed to the public about an invention before a given date - including any related patents, published articles and public demonstrations) to ensure that an invention is new and unique.
- ***WRITTEN AND ORAL COMMUNICATION:*** Wrote legal office actions on patentability and respond to patent applicants. Documented techniques used and prior art to determine patentability of invention over prior work in the field.

- **SUBJECT MATTER EXPERT:** Member of a team that supported program management and research proposal funding processes for the Army. Applied scientific expertise to several Congressionally-directed, medical (predominantly cancer-related) research programs. Applied scientific expertise to the detailed analysis, integration, and application of biomedical and health-related information and data in response to diverse customer-generated requirements including the US Army, Congress, governmental agencies and the private sector
- **SCIENTIFIC ANALYSIS AND EVALUATION:** Analyzed, integrated, categorized, summarized, and applied a broad spectrum of biomedical and health-related information and data in response to a diversity of customer-generated requirements (e.g., response to inquiries from the Army, other government agencies and Congress, and private sector). Reviewed annual progress reports by Principal Investigators supported by independent and consortia award mechanisms and generate reports documenting adherence of grantees to contractual guidelines as outlined in approved Statements of Work on topics related to cancer, bone marrow failure, neurofibromatosis, tuberous sclerosis complex, and other related scientific disciplines.
- **PROGRAM COORDINATION:** Assisted in program management and research proposal funding processes for the US Army. Program Coordinator for the Bone Marrow Failure Research Program and Tuberous Sclerosis Complex Research Program managing all aspects of coordinating the execution of \$3.75M and \$6M respectively, of Congressional appropriations for research funding and in developing program specific materials for outreach efforts. Member of the Neurofibromatosis Research Program teams (assisted in coordinating and implementing scientific meetings for civilian and military leadership; i.e. vision/mission setting meetings, preproposal screenings and programmatic reviews, performed quality control on scientific databases and in developing program specific materials for outreach efforts).
- **RESEARCH MANAGEMENT:** Research outcomes manager for the Neurofibromatosis and Tuberous Sclerosis Research Programs: Performed patent, grant application/award searches, and contacted Principal Investigators to follow research outcomes identified in annual scientific progress reports.
- **WRITTEN AND ORAL COMMUNICATION:** Wrote meeting summaries and updated briefings for senior civilian and military leadership. Wrote and deliver Inter-Agency Deliverable Summaries and Recommendations for senior civilian and military leadership which focused on procurement sensitive information such as research funding investment strategies for annual Congressional appropriations.

FREDERICK COMMUNITY COLLEGE  
*Adjunct Professor*  
Department of Biology

Frederick, MD  
January 2009 – May 2009  
10 Hours/Week

- **INSTRUCTION AND COURSE DESIGN:** Instructed Microbiology classes and laboratories. Prepared and delivered lectures, quizzes and exams. Designed and developed classroom materials and assignments. Provided instruction on a wide array of topics including General Properties of Microorganisms; Microbial Metabolism; Microbial Genetics; General Characteristics, Structures of and diseases caused by Bacteria, Viruses, Fungi, and Parasites; and Control of Microbial Growth.
- **COURSE MANAGEMENT:** Calculated and reported grades. Used Blackboard Course management system to communicate assignments to students, provide students access to course documents, and provide access to online gradebook.

- **INSTRUCTION AND COURSE DESIGN:** Instructed Microbiology classes and laboratories. Prepared and delivered lectures, quizzes and exams. Designed and developed classroom materials and assignments. Provided instruction on a wide array of topics including General Properties of Microorganisms; Microbial Metabolism; Microbial Genetics; General Characteristics, Structures of and diseases caused with Bacteria, Viruses, Fungi, and Parasites; and Control of Microbial Growth.
- **COURSE MANAGEMENT:** Calculated and reported grades. Used Blackboard Course management system to communicate assignments to students, provide students access to course documents, and provide access to online gradebook.
- **ADVISING:** Assisted students with decision-making and career direction. Helped students understand and comply with institutional requirements. Provided clear and accurate information regarding institutional policies, procedures and programs. Referred students to appropriate resources, on and off campus. Evaluated student progress towards established goals.

- **RESEARCH DESIGN AND MANAGEMENT:** Conducted extensive research on a wide range of topics. Designed experiments and determined experiment parameters. Prepared and performed laboratory assays. Interface and build strong relationships with scientists from various fields. Spearheaded design, implementation and updating of various laboratory protocols and procedures.
- **RESEARCH ANALYSIS:** Performed research for various cancer related projects including gene expression in breast cancer and skin diseases, and a drug study on prostate cancer cells. Cultured tissue cell lines. Extracted RNA, DNA, and proteins from cell lines. Utilized immunoblot to determine effects of drugs on protein expression. Employed gene array and Real Time PCR technology to study gene expression in various cell lines. Used reverse transcriptase polymerase chain reaction (RT-PCR) to verify results of gene array.
- **LABORATORY MANAGEMENT:** Managed laboratory supply inventories and maintain/troubleshoot research equipment.
- **TRAINING AND ADVISING:** Provided training to students and other scientists in gene array, real time Polymerase Chain Reaction (PCR) and reverse transcriptase PCR techniques.
- **KEY ACCOMPLISHMENTS:**
  - Authored/Published results of several research projects.
  - Authored a variety of scientific documents and deliver results via posters and oral presentations.
  - Designated to attend national conferences and scientific meetings.

**MARY WASHINGTON HOSPITAL**  
*Histology Technician*  
Pathology Department

Fredericksburg, VA  
June 2006 – September 2006  
40 Hours/Week

- **RESEARCH ANALYSIS:** Embedded tissue in paraffin. Stained and prepared slides for pathologists. Aided in bone marrow extractions. Carefully catalogued and archived tissue sample slides.

**NATIONAL CANCER INSTITUTE**  
*Cancer Research Training Award (CRTA) Summer Intern*  
Laboratory of Pathology, Molecular Signaling Section

Bethesda, MD  
June 2003 – August 2003  
40 Hours/Week

- **RESEARCH ANALYSIS:** Contributed to carboxyamido-triazole stressed-1 (CAIR-1) proteosomal regulation projects, with an emphasis on CAIR-1 degradation under stressed environments. Utilized various techniques including Western immunoblot and cell culture treatment with apoptotic stimuli such as Staurosporine, and cell culture treatment with caspase inhibitors.
- **LABORATORY MANAGEMENT:** Managed laboratory supply inventories and maintain/troubleshoot research equipment.

**HAMPTON UNIVERSITY**  
*Biology Instructor*  
Department of Biology

Hampton, VA  
June 1999 – August 2001  
40 Hours/Week

- **INSTRUCTION AND COURSE DESIGN:** Provided instruction in a variety of Biology subjects including Introduction to Biology and General Zoology to 120+ students. Prepared daily coursework, including lectures, quizzes, activities, and exams.
  - **COURSE MANAGEMENT:** Recorded and reported midterm and final grades
  - **ADVISING:** Assisted students with decision-making and career direction. Helped students understand and comply with institutional requirements. Provided clear and accurate information regarding institutional policies, procedures and programs. Assisted students in the selection of courses and other educational experiences. Referred students to appropriate resources, on and off campus. Evaluated student progress towards established goals.
  - **KEY ACCOMPLISHMENTS:**
    - Contributed to faculty meetings, committees and various university-related functions. Attended several seminars regarding current topics and technologies.
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## ***TRAINING AND AFFILIATIONS***

**Training:** Responsible Conduct of Research (RCR) Training Workshop – Howard University  
Minority Faculty Traineeships in Biotechnology – National Institute of Health (NIH)  
Rodent Handling Techniques – DOD Laboratory Animal Care Workshop

**Affiliations:** **Achieving The Promise Academy Embedded Academic Coach**, MCC Rockville, Fall 2023  
**American Society for Microbiology**, Member  
**Banner Communication, Inc. Board Member**, Athens, GA (2020-2023)  
**The Whole Heart Grief & Life Resource Center Facilitator and Board Member**,  
Frederick, MD (5/2020 – Present)  
**Hospice Patient Volunteer**, Frederick, MD (1/2018 to 3/2019)  
**Recorder**, Hampton University Judiciary Board (5/2000 to 5/2001)  
**Facilitator/Recorder**, The 23rd Annual Black Family Conference, Hampton University (3/2001)  
**Science Fair Judge**, An Achievable Dream Academy, Newport News, Virginia (1/2000)  
**Career Day Guest Speaker**, James River Elementary School, Williamsburg, Virginia (2/2000)  
**Huddle Coach**, Fellowship of Christian Athletes, Yorktown Middle School (1998 to 1999)

## ***HONORS, AWARDS AND SPECIAL ACCOMPLISHMENTS***

Diversity, Equity and Inclusion in the Workplace certificate, University of South Florida (2021)  
Alliance for Graduate Education & Professorate Fellow (2001-2004)  
American Association for Cancer Research Minority Scholar in Cancer Research Award Program  
Awardee (95th Annual Meeting, 2004)  
Minority Academic Achievement Award (1993)

## ***SKILLS AND CORE COMPETENCIES***

**Technical Skills:** Microsoft Office Suite: Word, Excel, Power Point, Publisher  
GraphPad Prism Software, Blackboard, Canvas, Zoom

**Core Competencies:**  
Team Player  
Oral and Written Communication Skills  
Strategic Planner  
Program and Project Management Skills  
Leadership Skills  
Interpersonal Skills  
Emotional Intelligence

## ***PRESENTATIONS & PUBLICATIONS***

1. Yasmine M. Kanaan, Douglas F. White, Jharna R. Das, Solomon Berhe, Oladapo Bakare, Hillaire Kenguele, Desta Beyene, Yanfei Zhou, Agnes A. Day and Robert L. Copeland Jr. "Cytotoxic Effects of *N*-(3-Chloro-1,4-dioxo-1,4-dihydronaphthalen-2-yl)-benzamide on Androgen-dependent and -independent Prostate Cancer Cell Lines." *Anticancer Research* 30(2):519-27 (2010)
2. Day A, George M, Panguluri R, Nelson E, White D, Tatum-Broughton T, Lashley K, Kanaan Y, Myers M, Yancy H., "Molecular Analyses of the Connective Tissue Protein Decorin Gene Expression in Cutis Laxa Skin Fibroblast," *Journal of Investigative Dermatology Symposium Proceedings*, (submitted).
3. Robert L. Copeland Jr., Jharna R. Das, Oladapo Bakare, Nkechi M. Enwerem, Solomon Berhe, Kenguele Hillaire, Douglas White, Desta Beyene, Olakunle Kassim and Yasmine M. Kanaan, "Cytotoxicity of 2,3-dichloro-5,8-dimethoxy-1,4-naphthoquinone in Androgen-dependent and -independent Prostate Cancer Cell Lines." *Anticancer Research* 27: 1537-1546 (2007).

4. Day, Agnes A., Mason, Jacqueline A., Tatum-Broughton, Tamara A., White, Douglas F., Lashley, Kerrie, Yancy, Haile F., "Analysis and Comparison of Matrix Metalloproteinases in Breast Cancer in African American and Caucasian Women," American Association for Cancer Research 95th Annual Meeting, Orlando, FL, Poster Presentation, 2004.
5. Tatum-Broughton, Tamara A., White, Douglas F., Mason, Jacqueline A., Lashley, Kerrie, Yancy, Haile F., Day, Agnes A., "Molecular Gene Expression Profiles of Gelatinases during Neoplastic Progression of Cervical Epithelial Cells," American Association for Cancer Research 95th Annual Meeting, Orlando, FL, Poster Presentation, 2004.
6. White, Douglas F., Tatum-Broughton, Tamara A., Mason, Jacqueline A., Lashley, Kerrie, Yancy, Haile F., Day, Agnes A., "Molecular Expression Profiles of Extracellular Matrix Genes in Various Forms of Skin Cancer." Annual Graduate Research Symposium, Howard University, Washington, DC, Poster Presentation, 2004.
7. Tatum-Broughton, Tamara A., White, Douglas F., Yancy, Haile F., Day, Agnes A., "Molecular Gene Expression Profiles for Human Normal and Malignant Cervical Cells," Annual Graduate Research Symposium, Howard University, Washington, DC., Poster Presentation, 2003. American Association for Cancer Research 94th Annual Meeting, Washington, DC. Poster Presentation, 2003.
8. White, D., "Use of Gene Arrays to Identify Biomarkers in Skin Diseases," Oral Presentation, Second Annual Research Vistas in the Education of Students of Color: African American and South African Perspectives, October 2002, Howard University, Washington, D.C.
9. Yancy, Haile F., Nelson, E., White, D., George, M., and Day, A., "Molecular Analysis of Connective Tissue Protein Gene Expression in Various Skin Diseases," Poster Presentation, Federation of American Societies for Experimental Biology (FASEB), Late Breaking Abstracts (LB-162), Experimental Biology 2002, New Orleans, LA.