

Aleshia Seaton- Terry  
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### **I. Educational Credentials**

Ph.D. candidate in Biological Science, expected May 2024  
M.S. Biological Science, Tennessee State University, 2011  
B.S. Biology, Philander Smith College, 2009

### **II. Laboratory Skills**

- Molecular Biology Skills
  - Western Blot
  - Polyacrylamide Gel Electrophoresis
  - Enzyme-linked immunosorbent assays (ELISA)
- Research Instruments
  - Light microscope
  - Spectrometer-UV
  - pH Meter
  - Centrifuge
  - UVP Imaging Systems
  - High-Performance Liquid Chromatography (HPLC)
- PCR
- Microtome
- Immunology
  - Peripheral Blood Mononuclear Cell (PBMC) Isolation
  - Cell Treatments
- Histology
  - Differential Staining
- Bacteriology
  - Microbiological Cultures
  - Bacterial species isolation from complex cultures
  - Media preparation

### **III. Professional Skills and Proficiencies:**

Proficient time management and organizational skills achieved through the ability to plan, schedule, prioritize, and multi-task so as to maximize productivity.

Effective written and verbal communication skills; able to keep detailed notes and records, summarize results, and provide written and verbal briefings and progress reports that are logical and coherent.

Well-developed interpersonal skills with demonstrated ability to interact effectively with a wide range of personalities, backgrounds, and cultures; able to work equally well as part of a team or independently.

Strategic problem-solving capabilities with the ability to analyze and interpret the biological test and to devise and implement a plan in order to increase efficiency and achieve goals.

Comprehensive computer skills which include utilizing spreadsheet, word processing, data analysis, Internet, and E-mail software; demonstrated ability to quickly learn new software

### **IV. Employment History**

1. Graduate Teaching Assistant of Anatomy and Physiology Department of Biology, Tennessee State University Nashville, TN. Responsibilities include Preparing and deliver lab lectures to undergraduate students. Evaluate and grade students 'class work, laboratory work, assignments, and papers. Compile, administer, and grade examinations. Supervise students' laboratory work. Maintain student attendance records, grades, and other required records, Initiate, facilitate, and moderate classroom discussions. Plan, evaluate, and revise curricula, course content, and course materials and methods of instruction. August 2020 – Present

2. Adjunct Instructor of Biology. Department of Biology, Howard College, San Angelo, TX. The teaching load from January 2015 to June 2015 includes General Biology, Anatomy and Physiology. Responsibilities include preparing and delivering lectures to undergraduate students. Evaluate and grade students' class work, laboratory work, assignments, and papers. Compile, administer, and grade examinations. Supervise students' laboratory work. Maintain student attendance records, grades, and other required records, 6. Initiate, facilitate, and moderate classroom discussions. Plan, evaluate, and revise curricula, course content, and course materials and methods of instruction. January 2015 to June 2016
3. Instructor of Biology. Department of Biology, Columbia State Community College, Columbia, TN. The teaching load from August 2014 to December 2015 includes General Biology, Anatomy and Physiology. Responsibilities include preparing and delivering lectures to undergraduate students. Evaluate and grade students' class work, laboratory work, assignments, and papers. Compile, administer, and grade examinations. Supervise students' laboratory work. Maintain student attendance records, grades, and other required records, 6. Initiate, facilitate, and moderate classroom discussions. Plan, evaluate, and revise curricula, course content, and course materials and methods of instruction. August 2014 to December 2015
4. Adjunct Instructor of Microbiology and Anatomy and Physiology. Department of Biology, Columbia State Community College, Franklin, TN. Teaching load from August 2013 to July 2014 includes General Biology I, Microbiology, and Anatomy & Physiology. Responsibilities include Preparing and delivering lectures to undergraduate and/or graduate students. Evaluate and grade students' class work, laboratory work, assignments, and papers. Compile, administer, and grade examinations. Supervise students' laboratory work. Maintain student attendance records, grades, and other required records, Initiate, facilitate, and moderate classroom discussions. Plan, evaluate, and revise curricula, course content, and course materials and methods of instruction. August 2013- July 2014
5. Adjunct Instructor of Microbiology and General Biology. Department of Biology, Columbia State Community College, Franklin, TN. Responsibilities include: Preparing and delivering lectures to undergraduate and/or graduate students. Evaluate and grade students' class work, laboratory work, assignments, and papers. Compile, administer, and grade examinations. Supervise students' laboratory work. Maintain student attendance records, grades, and other required records, and initiate, facilitate, and moderate classroom discussions. Plan, evaluate, and revise curricula, course content, and course materials and methods of instruction. The teaching load includes Microbiology and General Biology lecture and Labs- August 2011- December 2011
6. Graduate Teaching Assistant. Department of Biological Sciences, Tennessee State University, Nashville, TN. Lab instructor for Anatomy and Physiology. Responsible for test construction, grading, prepping, and supervision lab.- August 2009- August 2011.
7. Research Assistant. The University of Little Rock at Arkansas, Little Rock, AR. Assisted with a project investigating novel Phenolic compounds in *Medicago truncatula*. Responsibilities included setting up experiments and gathering and processing data for studies. Also, compiling, interpreting, and analyzing research data from High-Performance Liquid Chromatography. May 2008- June 2009

## V. Scholarly Activity

### A. Grants and Awards

1. POTUS (Preparing Our Tomorrow Uniquely in STEM) Fellowship- August 2020
2. Tennessee Board of Reagent Revitalization Grant- Fall 2015

### B. Publications

1. Alcalá, A., Osborne, B., Allen, B., Seaton-Terry, A., Kirkland, T., & Whalen, M. (2022). Toll-like receptors in the mechanism of tributyltin-induced production of pro-inflammatory cytokines, IL-1 $\beta$  and IL-6. *Toxicology*, 472, 153177. <https://doi.org/10.1016/j.tox.2022.153177>

### C. Poster Presentations

1. Seaton-Terry, Aleshia, The Role of TLR4 in Pentachlorophenol Stimulation of IL-1 $\beta$  Production in Human Immune Cells; Meharry Vanderbilt Tennessee State Cancer Partnership 21<sup>st</sup> Annual Symposium; May 2022; Nashville, TN, USA

2. Seaton-Terry, Aleshia, The Role of TLR4 in Pentachlorophenol Stimulation of IL-1 $\beta$  Production in Human Immune Cells; Tennessee State University Chemistry Day; April 2022; Nashville, TN, USA
3. Seaton-Terry, Aleshia, The Role of TLR4 in Pentachlorophenol Stimulation of IL-1 $\beta$  Production in Human Immune Cells; Experimental Biology ASBMB/Biochemistry and Molecular Biology Pennsylvania Convention Center; April 2022; Philadelphia, Pennsylvania, USA

**D. Oral Presentation**

1. Seaton-Terry, Aleshia, The Impact of Vaccine Hesitancy and COVID-19 Vaccine Accessibility in Africa's Healthcare System and Resources; Tennessee State Africa Conference; April 2022; Nashville, TN, USA

**VI. Volunteer Work**

1. Nashville Food Bank- Spring 2022-Present

**VII. Faculty/Teaching Development Activities**

1. HAPS 2017 Southern Regional Meeting- Fall 2017
2. University of Houston STEM Conference – Fall 2018

**VIII. Service Activities**

- A. Service to the Profession
- B. Service to Tennessee State University
  - a. Trained Undergraduate students in the NIH Cancer Research Program
- C. Service to San Jacinto College
  1. Science Talk Speaker – Fall 2017
  2. Development of Pilot OER A&P Course- Fall 2018
  3. Hiring committee- Summer 2019
  4. STEM Scholarship Committee- Spring 2020
  5. Evaluator for General Education Outcomes- Spring 2020
  6. Presenter at Across the Curriculum Conference at Alvin Community College- Spring 2020
  7. Women of Integrity August 2016-July 2020