Delany A. Bradford

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Ph.D. student in Biological Sciences at Tennessee State University. I graduated from Xavier University of Louisiana in 2017 with a Bachelor of Science degree in biology and a double minor in chemistry and Spanish. I completed a one-year Master of Biotechnology program at Morehouse School of Medicine as a summa cum laude and graduated with honors from Meharry Medical College with a Master of Health Sciences degree. I matriculated through both master’s degree programs simultaneously.

# Education

**PhD** Tennessee State University, Biological Sciences Aug 2022-Present

**MS** Morehouse School of Medicine, Biotechnology Aug 2021

**MS** Meharry Medical College, Health Sciences May 2021

**BS** Xavier University of Louisiana, Biology Pre-Med July 2017

# Research Experience

**Tennessee State University**, Nashville, TN Aug 2022-Present

**PhD Researcher**, Dr. Sarika Saraswati, advisor

* Researched tissue regeneration during wound healing
* Learned and mastered cell culturing techniques and Western blot analyzation
* Introduced undergraduate research students to our research and guided them in their experimental trials of cell culturing
* Presented data at local conference

**Xavier University of Louisiana**, New Orleans, LA Aug 2014-May 2017

**Undergraduate Researcher**, Dr. Florastina Payton-Stewart, advisor

* Assisted professor with research on the effects of anticancer agents on malignant tumors
* Synthesized analogues of the phytochemical berberine
* Conducted an animal study using the newly synthesized Ber 1-3 compound on mice
* Presented data at local and national conferences

# Teaching Experience

**Tennessee State University**, Nashville, TN Aug 2022-Present

**Lab Instructor**, General Biology I, II

* Taught Honors General Biology Lab I, an undergraduate course covering topics such as, but not limited to: Mitosis/Meiosis, cell structure, cell cycle, Mendelian genetics
* Covered and reviewed material for assessments and assignments
* Taught and assisted students with lab techniques and experimental questions

**Rocky Ridge Elementary School**, Hoover, AL Aug 2019-March 2020

**Paraprofessional**, Special Education

* Served as an aide for students with special needs
* Helped these students understand information with improved test scores
* Relayed progress of students between their special and general education teachers
* Calmed students during high intensity situations using certified techniques

# Publications

## Abstracts Accepted

(Conference Invitation)

Bradford, D., Saraswati, S., Young, P., “Elucidating the Role of sFRP2 in Modulating Organ Fibrosis,” Wound Healing Society (WHS) with the Symposium on Advanced Wound Care (SAWC), May 2024

Bradford, D., Saraswati, S., Young, P., “Elucidating the Role of sFRP2 in Modulating Organ Fibrosis,” New England Science Symposium (NESS)  and the Biomedical Science Careers Program (BSCP), March 2024

(Abstract-Reviewed)

Bradford, D.B. and Saraswati, S., “Identification of Molecules, through Phenotypic Screening, that Modulate Fibroblast Phenotype for Tissue Repair,” HBCU Engage 2023.

# Presentations and Invited Lectures

**Oral Presentation,** “Elucidating the Role of sFRP2 in Modulating Organ Fibrosis,” The Symposium on Advanced Wound Care (SAWC) Spring | Wound Healing Society (WHS), May 16, 2024.

**Oral Presentation,** “Elucidating the Role of sFRP2 in Modulating Organ Fibrosis,” TSU Research Symposium, March 28, 2024.

**Journal Club Presentation**, “Dissecting embryonic and extraembryonic lineage crosstalk with stem cell co-culture,” Vanderbilt University Graduate School Journal Club, March 6, 2024

**Workshop**, “Funding Opportunities: Investing in Yourself,” Department of Biological Sciences Graduate Student Seminar, August 17, 2023.

**Poster Presentation,** “Elucidating the Role of sFRP2 in Modulating Organ Fibrosis,” Biomedical Sciences Careers Program (BSCP) Student Conference, March 31 – April 1, 2023.

**Poster Presentation**, “Elucidating the Role of sFRP2 in Modulating Organ Fibrosis,” TSU Research Symposium, March 2023.

**Workshop**, “Preparing for Graduate/Medical School,” Panelist at TSU's 1st Annual Biology Career Day Conference, Oct 2022.

**Poster Presentation**, “The Biological Evaluation of Berberine Analogues, a Phytochemical, as Anticancer Agents,” The 253rd American Chemical Society National Meeting & Expo, April 2017.

# Professional Service

**After-School STEM Tutoring (ASST) Program Coordinator/Organizer**

High School Tutoring, Science; Technology; Engineering; Math, September 2023 - Present

# Community Service

**TSU Research Symposium**

[Presentation Moderator], [Tennessee State University], March 2023

**TSU Fall Preview Day**

[Department of Biology Representative], [Tennessee State University], Oct 2022

**STEM NOLA**

[College Volunteer], [New Orleans, LA], Aug 2014-July 2017