

Tamarah Bratcher

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Education and Qualifications

Morehouse School of Medicine 720 Westview Dr SW, Atlanta, GA 30310 · Doctor of Medicine	July 2021 – May 2025
Morehouse School of Medicine 720 Westview Dr SW, Atlanta, GA 30310 · Master of Neuroscience	August 2018 – May 2021
Spelman College 350 Spelman Lane Atlanta, GA 30314 · Bachelor of Science – Biology	August 2016 — May 2020

Research Projects (Lab Assistant)

Morehouse School of Medicine Dr. Kennie Shepherd's Lab Project #1 Overview Focused on exploring the effects of carnosic acid on MPP+ induced toxicity. Neuroblastoma cells were used as the bases to mimic cells that undergo the effects of Parkinson's disease.	June 2019 – August 2022
Thesis / Project #2 Focused on the ability of cimetidine to attenuate the effects of lead induced neurotoxicity. The line of SH-SY5Y neuroblastoma cells were used as a model.	

Presentations

Spelman College Dr. Dongfang Wang's Lab Project Overview Focused on ectopically expressing Invertase Inhibitor (InvINH1) with RGP3 promoter and its effect on embryo growth rate in Arabidopsis Thaliana plants. RGP3 was able to enhance the phenotypic delay in embryonic growth rate.	June 2018- May 2020
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National

Emerging Researchers National Conference in STEM (ERN) Study on the Effect of Ectopically Expressing InvINH1 by RGP3 Promoter on Embryo Growth Rate in Arabidopsis	February 2020
Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS) Study on the Effect of Ectopically Expressing InvINH1 by RGP3 Promoter on Embryo Growth Rate in Arabidopsis	November 2018 & 2019

American Society of Plant Biologist (ASPB) National Conference
March 2019

Study on the Effect of Ectopically Expressing InvINH1 by RGP3 Promoter on Embryo
Growth Rate in Arabidopsis

Local

Thesis Defense	April 2021
Study on the Effect of Cimetidine on Lead-induced Neurotoxicity	
Neuroscience Cohort at MSM	February 2021
Study on the Effect of Cimetidine on Lead-induced Neurotoxicity	
Symposium (Spelman College CURE and SURP)	July 2018
Study on the Effect of Ectopically Expressing InvINH1 by RGP3 Promoter on Embryo Growth Rate in Arabidopsis	
Research Day	April 2018
MSH2 Mutations in Connection to Hereditary Nonpolyposis Colorectal Cancer	
LSAMP Research Symposium	April 2019
Study on the Effect of Ectopically Expressing InvINH1 by RGP3 Promoter on Embryo Growth Rate in Arabidopsis	
Spelman Research Day	April 2019
Study on the Effect of Ectopically Expressing InvINH1 by RGP3 Promoter on Embryo Growth Rate in Arabidopsis	

Skills

Dr. Kennie Shepherd's Lab June 2019- August 2022

- Cell Culturing
Flask of SH-SY5Y cell line
- Electrophysiology
- Confocal Imaging
- Immunohistochemistry

Dr. Dongfang Wang's Lab June 2018- May 2020

- Restriction Enzyme Digestion
- Polymerase Chain Reaction (PCR)
To amplify InvINH1 and RGP3 promoter with the aid of personally designed primers
- Restriction Digestion Ligation
To ligate the amplified segments to desired vectors
- Gel Electrophoresis and Imaging of gel
Used to test for correctly amplified segments alongside the presence of a successfully
transformed clone after ligation
- Transformation of Cells with Ligated DNA
- Measuring Concentration of DNA with Nanodrop
- Genotyping via PCR and Gel Electrophoresis
- Agrobacterium-mediated Plant Transformation
- Confocal Imaging
Prepared slides by slicing embryos
Imaged slides with confirmed GFP construct transformation

Academic

January 2018- May 2020

Focused on determining the severity of single nucleotide polymorphism M718I in connection to hereditary nonpolyposis colorectal cancer (HNPCC).

Skills Acquired

August 2016- May 2020

- Gained the knowledge and the ability to use equipment as such as pipets, centrifuges, and spectrometers
- Ability to graph data and present it in a suitable format

Honors & Awards

Honor Societies

Phi Beta Kappa Honor Society

April 2020

Tri Beta National Biological Honor Society

April 2018

Research

MS/BS in Neuroscience at Morehouse School of Medicine

Fall 2018 – May 2021

LSAMP Scholar

Fall 2018 – May 2020

WISE-UP Scholar

December 2017 – May 2018

Organization Membership

Child Neurology Society

American Academy of Neurology

MSM Neurology Interest Club Campus Liaison (SIGN)

Community Service

YPI Pre Med Workshop

April 2024

Morehouse School of Medicine

Went over the SPIKES protocol for delivering bad news with premed students.

Exercise is Medicine Teaching Workshop

October 2023

Burgess Peterson Elementary

Taught a lesson on the importance of exercise to children between grades 1- 5. We also demonstrated healthy workout routines and yoga.

Henry Holloway Memorial Scholarship Golf Tournament

September 2023

Mobile H.E.A.L Clinic at Sugar Creek Golf and Tennis Center

Took the manual blood pressure of the men apart of the country club while explaining the importance of monitoring BP in a journal at home alongside follow-ups with their primary care physician.

Puberty Workshop / Hygiene Product Drive / Natural Hair Drive

August 2022 - December 2022

Dunbar Elementary School
Atlanta Food Bank

February 2017 – July 2021

Served as a team member through sorting food items that were packed to be distributed to those in need on certain Saturdays.

Employment History

Student Instructor

June 2023 - Current

Morehouse School of Medicine

- I lead two three-hour sessions on the weekends that served as an academic support tool using peer learning in group settings to improve overall student performance.

Lab Assistant

June 2018- August 2022

Mentioned above

Directed Student Instructor Microbiology

January 2019-May 2020

Spelman College

- I was chosen (based on my performance in the course) to lead sessions accumulating to 10 hours weekly for the Microbiology course for students to attend if they failed the weekly quiz or requested additional help in the course.

Starbucks Barista/ Barnes & Noble's Employee

October 2018- March 2022

48 5th Street, Atlanta, GA

- Worked in all positions at the Starbucks in Georgia Tech's Barnes & Noble's. The positions include customer support, register, and barista.

Skills acquired: customer service, exchange management, food handling, time management, communication skills, cashier.

Camp Counselor and Teacher's Aid

May 2012 - August 2020

Highland Corporates Center Academy Kids, Coatesville, PA

- Served as a counselor to groups of kids that ranged from age 2 to 11 during the summer. Conducted as the leader of various groups of children that consisted of different ages each year. Ages ranging from 5-6 kids for the 2-year-olds and 7-8 kids for children that were older.

Skills acquired: customer service, food handling, time management, communication skills.