

BOLUTYFE ODERINDE

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PROFESSIONAL SUMMARY

Focused and goal-oriented student aspiring to pursue a career in oncology. I aim to make a significant difference and impact in the health of our society, while contributing to the cancer community and underserved population.

EDUCATION

ALCORN STATE UNIVERSITY- Lorman, Mississippi

Bachelor of Science in Chemistry

GPA 3.97/4.0

Concentration: Biochemistry

May 2022

RELEVANT COURSEWORK

Honors General Chemistry, General Biology, General Physics, Organic Chemistry, General Microbiology, Calculus/Analytical Geometry, Introduction to Computer, Biochemistry, Microbiology, Physical Chemistry, Modern Physics, Instrumental Method of Analysis, Quantitative Analysis, Cell Biology, Genetics, Organic Qualitative Analysis, Chemical Research/Independent Study, Introduction to Pharmacology, Human Anatomy and Physiology, Medical Terminology, Computer Applications

RELEVANT EXPERIENCE

Summer Intern- University of California, Irvine

June 2021-August 2021

- Performed the computational synthesis of curcumin and developed a means to enhance its efficacy in cancer treatment using Gaussian software.
- Modified curcumin bioconjugates to serve as proteasome inhibitors for cancer treatment.

Research Assistant in Roy's Lab – Alcorn State University.

September 2020 - Present

- Exploring how natural compounds trigger metabolic alteration and growth inhibition of drug-resistant cancer cells.
- Understanding the mechanism of oxidative stress in cancer cells.
- Studying the use of phytochemicals as a combinatorial therapy with chemotherapeutic agents to study their synergistic effect on drug-resistant cancer cells.
- Understanding the lipid metabolism reprogramming of ovarian cancer cells.

Research Assistant in Cooper's Lab- Alcorn State University

May 2019 – July 2019

- Utilized light with azo-heteroarene molecular switches with the use of photo-controlled biomedical materials to obtain a photo-triggered drug delivery.
- Synthesized organic compounds used as molecular templates for site-selectivity.
- Understood the procedures involved in ultraviolet-visible and infrared spectroscopy.

TECHNICAL SKILLS

Software: Microsoft Office (Word, PowerPoint, Excel, Access)

Laboratory: Mammalian cell culture, cell growth and proliferation assay, fluorescent microscopy, immunoblot analysis, data analysis, compound imaging and analysis, reagent preservation, spectrophotometer and spectroscopy analysis, chromatography.

AWARDS AND SCHOLARSHIPS

- Awarded membership into the National Society of Leadership and Success **February 2020-Present**
- 6X President Scholar and 1X Dean Scholar Award- Alcorn State University **Fall 2018-Present**
- Provost Scholarship – Alcorn State University **Fall 2018-Present**

LEADERSHIP AND ACTIVITIES

- Presenter- Poster Presentation at the 2021 Southeast Regional IDeA conference **November 2021**
- Presenter- Oral Presentation at the ACES program at University of California, Irvine **August 2021**
- Presenter- 7th Center for Research Excellence Symposium (CRES). **March 2021**
- Participant of the Microscopy and Microanalysis 2020 Virtual Seminar **August 2020**
- Public Relations Officer of the American Chemical Society, Alcorn Chapter **September 2019-May 2020**
- Participant of the Forte Women of Color College Leadership Conference **November 2019**
- Participant of the Women Rise (Research in STEM) Conference **September 2019**
- Member of the American Chemical Society (ACS) **May 2019-Present**
- Member of the Honors Student Organization at Alcorn State University **May 2019- Present**
- Member of Khem Club, Alcorn Chapter **May 2019- Present**
- Volunteer Elementary and High School Monthly STEM Outreach **May 2019-Present**