

**Contact**

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Office: 256-824-2923

**Education**

- Scripps Research Institute, FL - Chemical Biology and Metabolism
- The University of Alabama in Huntsville, AL, Ph.D. Biotechnology Science and Engineering; M.S. Chemistry
- Adekunle Ajasin University, Nigeria, B.Sc. (Hons). Biochemistry

**Scientific interests**

Drug Discovery for infectious diseases, cancer, and crop protection; Drug target identification; chemical proteomics and lipidomics.

**Experience**

Managing Partner -Biomolecular Sciences, LLC, Huntsville, AL

Professor – Chemistry and Biochemistry, Jackson State University, Jackson, MS: *Assistant Professor-Full Professor* (2013-2023)

Research Associate - Scripps Research Institute, FL (2011 -2012)

Project Consultant and Analyst- Radiance Technologies Inc., Huntsville, AL (2008 -2009)

**Teaching Interests**

- Biochemistry – *Recommended textbook: Stryer/Lehninger/Voet&Voet*
- Organic Chemistry – *Recommended textbook: Wade/Paula Bruice/Klein*
- Medicinal Chemistry – *Recommended textbook: Gilman and Goodman; Silverman/Patrick*
- Physical Organic Chemistry – *Recommended textbook: Anslyn and Dougherty; Maskill*
- Organic Spectroscopy– *Recommended textbook: Fleming; Pretsch, and co*

**Research Projects**

- Non-Structural Protein 2 Protease of Alphaviruses
- Antiparasitic and Antineoplastic Agents
- Natural Products-Based Drug Discovery
- Antifungal Agents for Crop Protection

**Research Group Members – Postdoctoral and Graduate-Level (Past and Present)**

- Olawale Adeyinka, PhD – Current
- J. Chinenye Ojobor, PhD Student – Current
- Tamia Hampton, PhD Student – Current
- Olamide Crown, PhD – Adjunct Research Faculty
- Oluwatobi Adeyemo, PhD Student – Current
- Alexis Paskach, PhD Student – Current
- Safwan Haque, MS Student – Current
- D. Samuel Metibemu, PhD – Alumnus
- John Falode, PhD – Alumnus
- Drake Sizemore, MS Student - Alumnus
- Jasmine Collins, MS, PhD - Alumnus

- Huaisheng Zhang, PhD - Alumnus
- Rogers Nyamwihura, PhD - Alumnus
- Denise Yancey, PhD - Alumnus
- Oluwatomi Ajayi, PhD - Alumnus
- Alzomat, Mahmoud, MS- Alumnus
- Nemati, Maryam, MS- Alumnus
- Tierra Jefferson, MS- Alumnus
- Zachery Glenn, MS- Alumnus
- Samira Carothers, MS- Alumnus

## **SIGNIFICANT SERVICE**

- Master's Thesis Committee Membership

| <b>Name</b>    | <b>Program</b>               | <b>Institution</b> |
|----------------|------------------------------|--------------------|
| Alexis Paskach | MS Chemistry – (Summer 2025) | UAH                |
| Briana Ross    | MS Chemistry ( Summer 2021)  | JSU                |
| Amber Gardner  | MS Chemistry(Fall 2019)      | JSU                |
| Parks, Ebony   | MS Biology (May 2018)        | JSU                |
| Hammond, Neil  | MS Chemistry (Current)       | JSU                |
| Omkaran Menon  | MS Chemistry (May 2017)      | JSU                |
| Bobby Portis   | MS Chemistry (Dec 2016)      | JSU                |
| Ansley Scott   | MS Biology (May 2015)        | JSU                |
| Cord Carter    | MS Chemistry (May 2015)      | JSU                |
| Alexis Ellis   | MS Chemistry (May 2015)      | JSU                |

- PhD Dissertation Committee Membership

| <b>Name</b>        | <b>Program</b>                            | <b>Institution</b> |
|--------------------|-------------------------------------------|--------------------|
| Manasa Hegde       | PhD Biotechnology Science - Current       | UAH                |
| Moses David        | PhD Biotechnology Science - Current       | UAH                |
| Noura Dosoky       | PhD Biotechnology Science ( May 2015)     | UAH                |
| Kevin Egboluche    | PhD Chemistry (2024)                      | JSU                |
| Taylor Dorlus      | PhD Chemistry (2024)                      | JSU                |
| Jing Qu            | PhD Chemistry (2024)                      | JSU                |
| Mbemi, Ariane      | PhD Environmental Science (December 2019) | JSU                |
| Andrea Brown       | PhD Environmental Science (December 2019) | JSU                |
| Rui, Xu            | PhD Chemistry (August 2019)               | JSU                |
| Ubani Ogbonnaya    | PhD Civil Engineering (May 2018)          | JSU                |
| Kapusta, Karina    | PhD Chemistry (May 2018)                  | JSU                |
| Sakeli Hall        | PhD Environmental Science (December 2015) | JSU                |
| Thomas Ondera      | PhD Chemistry (December 2015)             | JSU                |
| Cassandra McCullum | PhD Chemistry (December 2014)             | JSU                |
| Antrice Walker     | PhD Environmental Science (May 2014)      | JSU                |

- **University**

- Program Director, AEOP Summer High School Internship Program – UAH
- Steering Committee Member, Alabama A & M LSAMP Bridge to the Doctorate Program 2024 – 2025- UAH
- Member, Strategic Enrollment Planning Group - UAH - 2024
- Faculty Manager, Departmental NMR Laboratory – Jackson State University (2020-2023)

- Site Coordinator for the Louis Stokes Alliance for Minority Partnership Undergraduate Program (LSMAMP), Jackson State University (2013-2023)
- Co-PI and Program Director, the LSMAMP Bridge to the Doctorate Program (2018-2023)
- Member, Graduate Studies Council, Jackson State University, 2019-2021
- Chair, Institutional Biosafety Committee, Jackson State University 2022 – 2023
- Member, Radiation Safety Committee, Jackson State University, 2021 – 2023
- **College**
  - Member, College Promotion and Tenure Advisory Committee, UAH, 2024-2025
  - Member, College Promotion and Tenure Committee, Jackson State University, 2019-2022
- **State**
  - Chair and Vice-Chair**, Division of Chemistry and Chemical Engineering, Mississippi Academy of Sciences, 2018 and 2019
- **National/International**
  - a. **Journals:** Reviewer: *Journal of Medicinal Chemistry*, *ACS Biochemistry*, *ACS Omega*, *ACS Chemical Research in Toxicology*, *ChemMedChem*, *Molecules*, *Mini-reviews in Medicinal Chemistry*, *Phytochemistry*, *Natural Products Research*, *Computational Chemistry and Biology*, *PeerJ*, *Experimental parasitology*, *Scientific Reports*, *European Journal of Medicinal Chemistry*, *ACS Med Chem Letters*, *Beilstein Journal of Organic Chemistry*, *Journal of Molecular Graphic and Modeling*, *PLoS NTDS*, *Database (Oxford Press)*, *Journal of Ethnopharmacognosy*, *Evidence-Based Complementary and Alternative Medicine*, *Research in Veterinary Science*.
  - b. **Editorial Board Member:**
    - Molecules (Natural Products Section)*; *Frontier in Pharmacology* (Topic Editor)
  - c. **National Institutes of Health:**
    - Reviewer, NIH Applied Immunology and Disease Control, Antimicrobial Therapeutics, Macromolecular Structure and Function D, NIH Support for Research Excellence – First Independent Research (SuRE-First) Award, S10 High End Instrumentation Review Panel, Chartered Member (2023-2029) NIH Anti-Infective Resistance and Targets Study Section.
  - d. **National Science Foundation:**
    - Reviewer, HBCU-UP and Centers for Chemical Innovation (CCI) Programs
  - e. Reviewer, The Louisiana Board of Regents Research Competitiveness Subprogram
  - f. 2023-Present: Member, Scientific Advisory Committee (2023-2027), Institut Louis Malardé, French Polynesia
  - g. External Examiner, University of Madras, Chennai – 2022
  - h. Carnegie African Diaspora Fellowship, 2017, Nigeria.

#### **Professional Society Membership**

- Member, American Chemical Society
- Member, Sigma Xi Honor Society
- Member, American Society of Pharmacognosy
- Member, Research Network Natural Products against Neglected Diseases.
- Member, National Organization for the Professional Advancement of Black Chemists and Chemical Engineers
- Lifetime Member, Mississippi Academy of Sciences

## Some Key Influences

- **Science**
  - Surely You're Joking, Mr. Feynman!: Adventures of a Curious Character - Richard P Feynman
  - What Do You Care What Other People Think? Further Adventures of a Curious Character - Richard P Feynman
  - The Coming Plague: Newly Emerging Diseases in a World Out of Balance - Laurie Garrett
  - The Drug Hunters: The Improbable Quest to Discover New Medicines - Donald Kirsch and Ogi Ogas
- **Society**
  - Yoruba Nursery Rhyme - Işẹ l'ogun işẹ (*Work is the antidote for poverty*) - Joseph Folahan Odunjo
  - Andrew Carnegie, A biography - David Nasaw
  - Outliers: The Story of Success - Malcolm Gladwell
  - Aké: The Years of Childhood - Wole Soyinka