

Ifedayo Victor Ogungbe, PhD

Contact

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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)

- Olamide Crown, PhD – Current
- D. Samuel Metibemu, PhD – Current
- John Falode, PhD – Current
- Olawale Adeyinka, PhD – Current
- J. Chinenye, PhD Student – Current
- Tamia Hampton, PhD Student – Current
- Drake Sizemore, MS Student - Current
- 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 Thesis Committee Membership

Name	Program	Institution
Alexis Paskach	MS Chemistry – Current	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

Name	Program	Institution
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 - 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 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 Chemist 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 Nursey Rhyme - Iṣẹ l'ogun iṣẹ (*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