



## Oluwatosin Abdulsalam

Microbiology/ Microbial Communication  
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**Title PhD Project: Geosmin in the mycorrhizosphere of *Tricholoma vaccinum***

### Main Research Interests

- Biological chemistry of basidiomycetes
- Basidiomycetes mutant generation using CRISPR technologies and other molecular tools
- Role of volatiles in host-fungus relationship and community structure in *Tricholoma vaccinum*

### Methodological Experiences

- Radio-labelled substrate experiments in analyzing volatiles biosynthetic pathways
- Molecular biology tools including different PCR techniques, CRISPR, transcriptomics and proteomics
- Effects of volatiles on microbial community members, plant host and mycorrhization

### Curriculum Vitae

Since 2017	Doctoral Researcher; Microbial Communication FSU Jena, DE
2016 - 2017	Research Assistant; Microbial Communication FSU Jena, DE
2015 - 2016	Master's thesis; Fraunhofer IGB BioCat, Straubing, DE
2014 - 2016	MSc. Microbiology; Friedrich Schiller University, Jena, DE
2013 – till date	Lecturer; Ahmadu Bello University, Zaria, NGA
2008 – 2011	BSc. (Hons.) Microbiology; Ahmadu Bello University, Zaria, NGA

### Publications

#### Peer-reviewed original papers

- **Abdulsalam O.A.**, Tijjani M.B., Aliyu M.S. (2015). Comparative Studies On The Biosurfactant Production Capacity of *Bacillus subtilis* And *Pseudomonas aeruginosa* Using Engine Oil and Diesel Respectively As Substrate. Nigerian Journal of Basic and Applied Sciences. In press.



- Wada-Kura A, Tijjani M.B., **Abdulsalam O.A.** (2015). Seroprevalence of Hepatitis B and Hepatitis C among Pregnant Women Attending Antenatal Care at Maternal and Children's Hospital (MCH) In Malumfashi Local Government, Katsina. Bayero Journal of Pure and Applied Sciences. In press.
- Tijjani M.B., **Abdulsalam O.A.**, Aliyu M.S. (2015). Studies on the Impact of Contaminated Refuse Dump around Juveniles in the Transmission of Helminthic Infections: A Case Study of AlMajiri in Samaru. Nigerian Journal of Basic and Applied Sciences. In press.
- Tijjani M.B., **Abdulsalam O.A.**, Wada-Kura A. (2015). Parasitological Analysis of Water at Various Stages in the Purification Process at ABU Water Works, Zaria. Bayero Journal of Pure and Applied Sciences. In press.
- Abdullahi, B., Abdulfatai, K, Wartu, J. R., Mzungu, I., Muhammad, H. I. D. and **Abdulsalam, A. O.** (2014). Antibiotics susceptibility patterns and characterization of clinical Salmonella serotypes in Katsina State, Nigeria. African Journal of Microbiology Research. Vol. 8(9), pp. 915-921.

#### Peer-reviewed reviews and book articles

#### Non-peer-reviewed articles, conference abstracts, theses

- **Abdulsalam O.A.** (2016) Development of bioelectrocatalytic and fermentation processes for C1-Substrate conversion into high value chemicals (Master's thesis). Friedrich Schiller University, Jena.
- **Abdulsalam O.A.**, Speck M., Schwarz D., Siegmund L., Woestemeyer J., Csepei, I.L., Gartner T., Steffler F., Sieber V. (2016). PHA Production via C1 Fermentation. Fraunhofer IGB BioCat Symposium – Power-to-X. Poster presentation
- Tijjani M.B., **Abdulsalam O.A.** (2015). The Effect of Fertilizer on Population of Soil Fungi. 38th Nig. Soc. Of Microbiology Conference. Book of Abstracts.
- Tijjani M.B., **Abdulsalam O.A.** (2015). Evaluation of the Efficacy of Commercially Available Disinfectants on the Preservation and Storage of Potatoes and Tomatoes. 38th Nig. Soc. Of Microbiology Conference. Book of Abstracts.



- **Abdulsalam O.A.**, Tijjani M.B., Aliyu M.S. (2014). Comparative study of the antibacterial activity of stem bark extract of *Bombax costatum* and extracts of *Xylopia aethiopica* on some selected enterobacteria. 37th Nig. Soc. Of Microbiology Conference. Book of Abstracts. P. 16: MP040
- **Abdulsalam O.A.**, Tijjani M.B., Aliyu M.S. (2014). Comparative Studies on the Biosurfactant Production Capacity of *Bacillus subtilis* and *Pseudomonas aeruginosa* Using Engine Oil and Diesel Respectively as Substrate. 37th Nig. Soc. Of Microbiology Conference. Book of Abstracts. P. 113: FIA057.
- **Abdulsalam O.A.**, Tijjani M.B., Aliyu M.S. (2014). Studies on the Impact of Contaminated Refuse Dump Around Juveniles in the Transmission of Helminthic Infections: A Case Study of Al-Majiri in Samaru, Nigeria. 37th Nig. Soc. Of Microbiology conference. Book of Abstract. P. 183: EM107.
- **Abdulsalam O.A.**, Tijjani M.B., Aliyu M.S. (2014). Survey of Antibiotic Resistant *Pseudomonas aeruginosa* and Different Geohelminthes in Various Sites of a Refuse Dump in Zaria, Nigeria. 37th Nig. Soc. Of Microbiology conference. Book of Abstract. P. 182: EM106.
- **Abdulsalam O.A.** (2011). Bacteriological Evaluation of Herbal Concoctions Sold in Zaria (Bachelor thesis). Ahmadu Bello University, Zaria, Nigeria.
- **Abdulsalam O.A.** and Umoh V.J. (2011). Bacteriological Evaluation of Herbal Concoctions Sold in Zaria. 35th Nig. Soc. Of Microbiology conference. Book of Abstract. P. 41: MP117.