NWABOR, OZIOMA FORSTINUS

Contact Information

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Work Experience

Postdoctoral Fellow	Prince of Songkla University, Thailand	Aug. 2020 – Present
Research Assistant	Prince of Songkla University, Thailand	Aug. 2017 – May 2020
Teaching Assistant	Prince of Songkla University	Jun. 2018 – Feb. 2019
Medical Representative	Deep Kumar Tyagi (DKT), Int., Nigeria	Aug. 2016 – Jul. 2017
Sale Representative	Phillips Pharmaceutical, Int., Nigeria	Jan. 2016 – Jun. 2016
Science Teacher	Loretto School of Childhood, Nigeria	May 2013 – Sept. 2014
Corps Regulatory Officer	Food and Drug Admin. & Control, Nigeria	Oct. 2009 – Nov. 2010

Academic Background

Aug. 2017 – May 2020: PhD Microbiology, Prince of Songkla University, Thailand.

Jan. 2012 – Apr. 2014: M.Sc. Environmental Microbiology, University of Nigeria, Nigeria.

Sept. 2004 – Aug. 2008: B.Sc. Microbiology, Imo State University, Nigeria.

Membership of International Associations

International Association for Food Protection	Member
International Natural Product Sciences Taskforce	Member

Research Interest

- Antimicrobial drug resistance
- Infectious disease and bacterial pathogenesis
- Food safety and microbiology
- Natural product and antimicrobial drug development
- Molecular biology and genetics

Skills

- Excellent knowledge on microbiological and molecular techniques
- Strong oral, written and presentation skills, and the ability to conduct research independently.
- Effective organizational skills, and effective working in a team environment

Awards and honours

- Thailand Education Hub for ASEAN Countries, PhD Scholar Award THE-AC 013/2017
- Graduate School Research Fund, Prince of Songkla University, 2018.
- Best Graduating Male Student, Departmental Honour, Microbiology, Imo State University 2008.

Publications

1. Siripen K., Narongdet K., Kamonnut S., Thanaporn H., Boonsri C., Nwabor O.F., Yohei D., Sarunyou C. (2021) Outcomes of Adjunctive Therapy with Intravenous Cefoperazone-Sulbactam for Ventilator Associated Pneumonia Due to Carbapenem-Resistant *Acinetobacter baumannii. Infection and Drug Resistance.*

2. Nwabor OF et al., (2021). Evaluation of synergistic antibacterial effects of fosfomycin combination with selected antibiotics against carbapenem–resistant *Acinetobacter baumannii. Pharmaceutoicals MDPI.*

3. Julalak C. O., Nwabor O. F., Voravuthikunchai S. P., & Sarunyou C. Synergistic antibacterial effects of colistin in combination with aminoglycoside, carbapenems, cephalosporins, fluoroquinolones, tetracyclines, fosfomycin, and piperacillin on multidrug resistant clinical isolates of Klebsiella pneumoniae. Plos one (Accepted manuscript).

4. Nwabor OF, Bioactive phytochemicals in *Eucalyptus calmadulensis* inhibit important foodborne pathogens, reduce listeriolysin O-induced haemolysis, and ameliorate hydrogen peroxide-induced oxidative stress on human embryonic colon cells. *Food Chemistry*.

5. Nwabor OF, Singh S, Ontong JC, Vongkamjan K, Voravuthikunchai SP. Valorization of Wastepaper Through Antimicrobial Functionalization with Biogenic Silver Nanoparticles, a Sustainable Packaging Composite. *Waste and Biomass Valorization*. 2020:1-15.

6. Ontong, J. C., Singh, S., Nwabor, O. F., Chusri, S., & Voravuthikunchai, S. P. (2020). Potential of antimicrobial topical gel with synthesized biogenic silver nanoparticle using Rhodomyrtus tomentosa leaf extract and silk sericin. *Biotechnology Letters*, 1-12.

7. Eze, F. N., & Nwabor, O. F. (2020). Valorization of Pichia spent medium via one-pot synthesis of biocompatible silver nanoparticles with potent antioxidant, antimicrobial, tyrosinase inhibitory and reusable catalytic activities. *Materials Science and Engineering: C*, 111104.

8. Syukri, D. M., Nwabor, O. F., Singh, S., Ontong, J. C., Wunnoo, S., Paosen, S., . . . Voravuthikunchai, S. P. (2020). Antibacterial-coated silk surgical sutures by ex situ deposition of silver nanoparticles synthesized with *Eucalyptus camaldulensis* eradicates infections. *Journal of Microbiological Methods*, 105955.

9. Nwabor, Ozioma Forstinus, Singh Sudarshan, Supakit Paosen, Kitiya Vongkamjan, Supayang Piyawan Voravuthikunchai (2020). Enhancing food shelf life with polyvinyl alcohol-chitosan nanocomposite film from bioactive Eucalyptus leaf extracts. *Food Bioscience, 36*(100609)

10. Nwabor OF, Singh S, Marlina D, Voravuthikunchai SP. Chemical characterization, release, and bioactivity of *Eucalyptus camaldulensis* polyphenols from freeze-dried sodium alginate and sodium carboxymethyl cellulose matrix. *Food Quality & Safety*. 2020.

11. Singh, S., Nwabor, O. F., Ontong, J. C., & Voravuthikunchai, S. P. (2020). Characterization and assessment of compression and compactibility of novel spray-dried, co-processed bio-based polymer. *Journal of Drug Delivery Science and Technology, 56*, 101526

12. Sudarshan Singh, Ozioma Nwabor, Julalak chorachoo Ontong, Nattha Kaewnopparat, Supayang Voravuthikunchai (2020). Characterization of a novel, co-processed bio-based polymer, and its effects on mucoadhesive strength. *International Journal of Biological Macromolecules,* 145, 865-875.

13. Florence Auberon, Opeyemi Joshua Olatunji, Pierre Waffo-Teguo, Emmanuel Ayobami Makinde, Ozioma Forstinus Nwabor, Frédéric Bonté, Jean-Michel Mérillon, Annelise Lobstein (2020). Further 2R-Benzylmalate derivatives from the undergrounds parts of *Arundina graminifolia* (Orchidaceae). *Phytochemistry Letters,* 35, 156-163.

14. Fredrick Nwude Eze, Adesola Julius Tola, Ozioma Forstinus Nwabor and Titilope John Jayeoye (2019). *Centella asiatica* phenolic extract-mediated bio-fabrication of silver nanoparticles: characterization, reduction of industrially relevant dyes in water and antimicrobial activities against foodborne pathogens. *RSC Adv*., 9, 37957

15. Makinde, EA., Ovatlarnporn, C., Adekoya, AE., Nwabor, Ozioma Forstinus. (2019). Antidiabetic, antioxidant, and antimicrobial activity of the aerial part of *Tiliacora triandra*, *South African Journal of Botany*. 125: 337–343.

16. Nwabor, Ozioma Forstinus, Kitiya Vongkamjan, and Supayang Piyawan Voravuthikunchai (2019). Antioxidant Properties and Antibacterial Effects of *Eucalyptus camaldulensis* Ethanolic Leaf Extract on Biofilm Formation, Motility, Haemolysin Production, and Cell Membrane of the Foodborne pathogen *Listeria monocytogenes. Foodborne Pathogens and Diseases. 16,* 581–589.

17. Ani Christiana, Nnamounu Ikechukwu, Onuchkwu Christian, Nwabor Ozioma Forstinus, Agah Victor (2016). Bacterial Contamination of Leaf Surfaces of Common Edible Plants in Ebonyi State, South East Nigeria. *British Microbiology Research Journal,* 12 (3), 1-7.

18. Nwabor Ozioma Forstinus, Nnamonu Ikechukwu, Martins Emenike, Ani Christiana (2016) *Water and Waterborne Diseases: A Review*. *International Journal of Tropical Disease and Health* 12(4): 1-14

19. Nwabor, Ozioma Fortinus *et al.* (2015). Epidemiology of Salmonella and *Salmonellosis. International Letters of Natural Sciences, Vol. 47 pp 54-73.*

20. Nwabor, Ozioma Forstinus *et al.* (2015). Anopheline mosquitoes and the malaria scourge. *International Journal of Mosquito Research*; 2(3): 200-207. ISSN: 2348-5906

21. Nwabor, Ozioma Forstinus *et al.* (2014): Pulp Extracts of *Picralima nitida*: a Larvicidal Agent in Malaria Vector Control. *Journal of Biology, Agriculture and Healthcare.* Vol.4, No.8, pp 69-73.

22. Dibua, U. M. E. *et al.* (2013). Larvicidal Activity of *Picralima nitida* an Environmental Approach in Malaria Vector Control. *American Journal of Research Communication*, 1(12): 451-469.

Conference and seminars

- 5th International Electronic Conference on Medicinal Chemistry (1st to 30th Nov. 2019).
- Short course training: Development of herbal innovation using green extraction and quality control (10th to 15th May 2019) Thailand.
- Strategic research on application of natural products", organized by Natural Product Research Center of Excellence (19th of March 2019) Thailand.
- International Conference on Food Production and Preservation (17th to 18th Oct. 2018) Ottawa, Canada.
- The 7th International Conference on Natural Products (18th to 20th Oct. 2018) Gyeonggi-do, Korea.

On-Going Research Works

1. *In vitro* antimicrobial efficacy of Fosfomycin combinations with carbapenems, aminoglycosides, cephalosporins, and fluoroquinolones on carbapenem resistant *Acinetobacter baumannii* Nwabor OF,
2. Facile in situ deposition of biogenic silver nanoparticles on porous alumina disc, an antibacterial, antibiofilm and antifouling strategy for food contact surfaces. *Biofouling* (Under review).
3. Nwabor OF, Ethanolic leaf extracts of *Eucalyptus camaldulensis* inhibits *Listeria monocytogenes* attachment and biofilm formation on food contact surfaces and modifies cell hydrophobicity (In process).
4. Nwabor O. F., Pawarisa T., Voravuthikunchai S. P., & Sarunyou C. Systematic Review and Bibliometric Analysis of Colistin Resistance in *Klebsiella pneumoniae* using Bibliometric Analysis (Submitted).
5. Nwabor, O. F, Singh, S., & Voravuthikunchai, S. P. *Rhodomyrtus tomentosa* (Aiton) Hassk: A potential source of pharmacological relevant bioactive compounds with prospects as alternative remedies for medical conditions (Submitted to Journal of Herbal Medicine)

References

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