Name

Dr. Chinonso Ishmael Ukaegbu

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Academic qualifications

B.MLS, M.Sc., Ph.D

Faculty

Faculty of science

Department

Biological sciences

Research interests

- Natural products of pharmaceutical importance.
- Waste to wealth

Teaching areas

Biotechnology, Microbiology, Immunology, Genetics

Current undergraduate supervision

One (1)

Summary of profile

Dr. Ukaegbu Chinonso Ishmael is a teaching staff in the Department of Biological Sciences, Faculty of Science, Kings University. He graduated from the Department of Medical Laboratory Sciences, Imo State University, Owerri in 2008 and obtained his M.Sc and Ph.D. in Biotechnology from Universiti Malaysia Pahang. He is an associate member of the Medical Laboratory Science Council of Nigeria (MLSCN). His current research interest is in natural sources of anticancer agents and nanoparticles of therapeutic importance.

Curriculum Vitae

A. GENRAL INFORMATION

Full Name:	UKAEGBU, Chinonso Ishmael
Date and Place of Birth:	19th March 1982/Ubulu, Imo State
Marital Status:	Married
Gender:	Male
Nationality:	Nigerian
Names and Ages of Children:	Ifechukwu Elvis Chinonso /2 years and 9 months
Permanent Contact Address:	Umuebi, Amorie Ubulu, Oru West LGA, Imo State.
E-mail Address:	Chinoreal1456@yahoo.com
Cell phone Number:	+2348079603163
Faculty:	Science
Department:	Biological Sciences
Date of First Appointment:	10th August 2020
Present Position and Salary:	03/01

B. EDUCATIONAL BACKGROUND

Institutions Attended with Dates

Universiti Malaysia Pahang	2016 - 2019
Universiti Malaysia Pahang	2014 - 2016
Imo State University, Owerri	2003 - 2008
Comprehensive Secondary School, Ozara, Imo State	1996 – 2002
Nobis Primary School, Ubulu, Imo state	1988 - 1994

Academic/Professional Qualifications with Dates

PhD Biotechnology	2019
MSc Biotechnology	2016
BMLS	2008
SSCE Certificate	2002
FSLC	1994

Work Experience

Year	Employer and address	Position and duty

March 2020 -Present	Kings University, Odeomu, Osun state	Lecturer II ● Teaching and supervising undergraduate students.
2014 – 2019	Universiti Malaysia Pahang, Malaysia	Laboratory Teaching Assistant • Engaged in teaching laboratory techniques and other learning activities such as tutorials, invigilation, and supervision of final year undergraduate projects.
2013 -2014	St Damian Hospital, Okporo, Imo state, Nigeria	Medical Laboratory Scientist • Involved in the analysis of clinical samples from patients for disease diagnosis.
2011 -2012	Usman dan Fodio University Teaching Hospital, Sokoto, Nigeria.	Intern Medical Laboratory Scientist • Involved in the analysis of clinical samples from patients for disease diagnosis.
2010 -2011	Igbinedion University Teaching Hospital, Okada, Edo state, Nigeria	National Youth Service • Involved in academic activities such as lecturing, invigilation, and projects supervision.

Courses Taught During This Academic Session

MCB 307	Immunology
MCB 311	Soil Microbiology
MCB 405	Microbial Physiology and Metabolism
BTH 407	Nucleotide Sequence Analysis
MCB 306	Introductory Virology
MCB 406	Environmental Microbiology
MCB 408	Petroleum Microbiology

Undergraduate Students Supervised and their Project Titles.

Olaniyan Apesinola Peace (BTH/2017/002): Comparative Analysis of Antibacterial Activities of *Vernonia Amygdalina* Extracts Prepared by Using Soxhlet and Manual Extraction Techniques (***Ongoing***)

Publications

- Oluwaseun, R.A., Abdurahman, N.A., **Ukaegbu, C.I**. (2021). Extraction of phenolic compounds: A review. Current Research in Food Science 4; 200–214. doi.org/10.1016/j.crfs.2021.03.011

- **Ukaegbu, C.I.,** S.R. Shah, H.A Hamid, O.R. Alara, I.S.M Zaidul (2020). Phenolic compounds of aqueous and methanol extracts of *Hypsizygus tessellatus* (brown and white var.) and *Flammulina velutipes* caps: antioxidant and antiproliferative activities. Pharmaceutical Chemistry Journal, Vol. 54, No. 2, May 2020.

- Alara, O.R, Abdurahman, N.H., **Ukaegbu, C.I.,** Alara, J.A. (2020). Optimization of microwave-assisted extraction of phenolic compounds from Ocimum gratissimum leaves and its LC–ESI–MS/MS profiling, antioxidant and antimicrobial activities. Journal of Food Measurement and Characterization, 14(8) DOI: 10.1007/s11694-020-00602-1

- **Ukaegbu, C.I.,** Samiur, S.R., Hamid, A.H., Normaiza, Z., & Alara, O.R**.** (2018). Extracts of *Hypsizygus tessellatus* (white var.) caps inhibited MCF-7 and MDA-MB-231 cell lines proliferation. *Journal of Food Measurement and Characterization*. DOI: 10.1007/s11694-018-9952-8. Springer

- Samiur, S.R., **Ukaegbu, C.I**., Hamid, A.H., & Alara, O.R. (2018). Evaluation of antioxidant and antibacterial activities of the stems of *Flammulina velutipes* and *Hypsizygus tessellatus* (white and brown var.) extracted with different solvents. *Journal of Food Measurement and Characterization*. *12*, 1947-1961. Springer

- **Ukaegbu C.I.**, S.R. Shah, A.H. Hazrulrizawatia, O.R. Alara (2018). Acetone extract of Flammulina velutipes caps: A promising source of antioxidant and anticancer agents. Beni-Suef University Journal of Basic and Applied Sciences 7 (2018) 675–682.

- **Ukaegbu C.I.**, Shah Samiur Rashid, Jalal KCA, Shaheen Sarkar, Hazrulrizawati Abd Hamid, Azmi NS (2017). Between the bioactive extracts of edible mushrooms and pharmacologically important nanoparticles: need for the investigation of a synergistic combination-A mini review. Asian Journal of Pharmaceutical and Clinical Research 10(3): 13-24.

- **Ukaegbu C.I,** Shah Samiur Rashid (2017). Biological characterization of water extracts from the caps and stalks of white Hypsizygus tessellatus (Bunapi shimeji) and Flammulina velutipes (Enoki) mushrooms. Innovat International Journal of Medical and Pharmaceutical Sciences 2(3): 1-5

- **Ukaegbu C.I**, Shah Samiur Rashid, Jaya Vejayan Palliah, Mohd Fazli Farida Asras, and Sharifah Suhaiza Binti Nik Wan Ahmad (2016). Optimization of the Enzymatic Saccharification Process of Empty Fruit Bunches Pretreated with Laccase Enzyme. BioResources 11(2): 5013-5032.

- **Ukaegbu C.I**, Shah Samiur Rashid, Jaya Vejayan A/L Palliah, Mohd Fazli Farida Asras, Sharifah Suhaiza Binti Nik Wan Ahmad, Ayodele Bamidele Victor (2016). Statistical modeling and Optimization of Enzymatic Pretreatment of Empty Fruit Bunches (EFB) with Laccase Enzyme. BioResources 11(2), 5138-5154.

- **Ukaegbu C.I**, Shah Samiur Rashid, Ukaegbu Benjamin Chibuike, Esmail Abdullah Mohammed Basheer (2014). Effects of Pregnancy on Serum Calcium, Magnesium, and Inorganic Phosphate Ion In Relation To Osteo Disease. Journal of Biotechnology Science Research 2014, 1(2):22-29.

- **Ukaegbu C.I**, Shah Samiur Rashid, Esmail Abdullah Mohammed Basheer (2014). Chemical Methods of Pretreatment, Sugar Yields and Economic Costs: A Review. Journal of Biotechnology Science Research 2014, 1(2): 30-38.

- **Ukaegbu C.I**, Shah Samiur Rashid, Ukaegbu Benjamin Chibuike (2014). Kinetosis: All you need to know. Journal of Biotechnology Science Research 2014, 1(3): 63-74.

- Alara, O.R., Abdurahman, N.H., **Ukaegbu, C.I.,** & Azhari, N.H. (2018). *Vernonia cinerea* leaves as the source of phenolic compounds, antioxidants, and anti-diabetic activity using microwave-assisted extraction technique. *Industrial Crops and Products*, *122*, 533-544.

- Alara, O.R., Abdurahman, N.H., **Ukaegbu, C.I.,** & Azhari, N.H. (2018). Metabolic profiling of flavonoids, saponins, alkaloids, and terpenoids in the extract of *Vernonia cinerea* leaf using LC-Q-TOF-MS. *Journal of Liquid Chromatography & Related Technologies*,41(11); 722-731

- Alara, O.R., Abdurahman, N.H., & **Ukaegbu, C.I.** (2018). Soxhlet extraction of phenolic compounds from *Vernonia cinerea* leaves and its antioxidant activity. *Journal of Applied Research on Medicinal and Aromatic Plants*, 11:12-17

- Alara, O.R., Abdurahman, N.H., **Ukaegbu, C.I.,** Hassan, Z., & Kabbashi, N.A. (2018). Dataset on LC-Q-TOF/MS tentative identification of phytochemicals in the extract of *Vernonia amygdalina* leaf through positive ionization. *Data in Brief*. *21*, 1686-1689.

- Alara, O.R., N.H., Abdurahman, **Ukaegbu C.I.,** N.A., Kabbashi (2019). Extraction and characterization of bioactive compounds in *Vernonia amygdalina* leaf ethanolic extract comparing Soxhlet and microwave-assisted extraction techniques. Journal of Taibah University for Science. https://doi.org/10.1080/16583655.2019.1582460

- Mohammad, N.H., Maziz, M.F.K.K., Shah, S.R., Aizi, N.M.R., Ukaegbu, C.I. (2019). Detection of ESBL and MBL in Acinetobacter Spp and their plasmid profile evaluation. Jordan Journal of Biological Sciences 12(3): 373-378

Conferences

- Shah, S.R., **Ukaegbu, C.I**., Hamid, H.A., Rahim, M.H.A., Chuan, Z.L. (2020). Statistical analysis of solvent polarity effects on phytochemicals extraction: Multiple correspondences analysis (MCA) approach. Malaysian Journal of Mathematical Sciences 14(S) December: 139153 (2020) Special Issue: 2nd International Conference on Applied & Industrial Mathematics and Statistics 2019 (ICoAIMS 2019).

- **Ukaegbu, C.I.,** Shah S. R. (2016). Optimization of Laccase Enzyme Pretreatment Process Parameters of Empty Fruit Bunches (EFB) Using One-Factor-At-a-Time (OFAT). Proceeding of The National Conference for Postgraduate Studies (NCON-PGR) 2018, Universiti Malaysia Pahang. (Paper 48).

- Alara, O.R., Abdurahman, N.H., Abdul Mudalip S.K., & **Ukaegbu, C.I.** (2018). Parametric study of Soxhlet extraction of phenolic compounds from *Vernonia amygdalina* leaves. The National Conference for Postgraduate Studies (NCON-PGR) 2018, Universiti Malaysia Pahang. (Paper 42).

Books

- **Ukaegbu, C.I.,** Samiur, R.S., Md Fazlul, K.K. (2017): Enzyme pretreatment and saccharification of EFB for ethanol production. Lambert Academic Publishers.

Submitted Theses

1. Study on Antiproliferative Activity of *Hypsizygus tessellatus* and *Flammulina velutipes* Extracts Adsorbed on Sulphated Zirconia Nanoparticles Against Breast Cancer Cell Lines. PhD Thesis submitted to University Malaysia Pahang (2019)

2. Optimization of Pretreatment and Saccharification Processes of Empty Fruit Bunches (EFB) For Bioethanol Production. MSc Thesis submitted to Universiti Malaysia Pahang (2016)

3. Leucocyte Count of Acute Diarrheal Children. BMLS Final Year Project submitted to Imo State University, Owerri (2008).

Research Interest and Activities

Pharmaceutical biotechnology, Natural products, Waste to wealth, Bioprocess, Nanoparticles of pharmaceutical importance.

Referees

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