



The Bioscientist

# The Bioscientist

Volume 5 No. 1, 2017



A Publication of the Faculty of Biosciences,  
Nnamdi Azikiwe University, Awka, Nigeria

[www.bioscientistjournal.com](http://www.bioscientistjournal.com)

**The Bioscientist**  
A Publication of the Faculty of Biosciences,  
Nnamdi Azikiwe University, Awka, Nigeria

**EDITORIAL BOARD**

**EDITOR -IN -CHIEF**

**Prof. F. C. Ogbo,**

Department of Applied Microbiology and Brewing, Nnamdi Azikiwe University, Awka, Nigeria  
E-mail: fc.ogbo@unizik.edu.ng

**SCIENTIFIC EDITORS**

**Prof. C. I. Eneanya, fppsn**

Department of Parasitology and Entomology, Nnamdi Azikiwe University, Awka, Nigeria  
E-mail: ceneanya@yahoo.com

**Prof. S. C. Ewuim,**

Department of Zoology, Nnamdi Azikiwe University, Awka, Nigeria  
E-mail: [cewuim@gmail.com](mailto:cewuim@gmail.com)

**Prof. F. C. Ezeonu,**

Department of Applied Biochemistry, Nnamdi Azikiwe University, Awka, Nigeria  
E-mail: fc.ezeonu@unizik.edu.ng

**Prof. R. N. Okigbo,**

Department of Botany, Nnamdi Azikiwe University, Awka, Nigeria  
E-mail: okigborn17@yahoo.com

**Dr. I. O. Igwilo,**

Department of Applied Biochemistry, Nnamdi Azikiwe University, Awka, Nigeria  
E-mail: [igwilosaint@gmail.com](mailto:igwilosaint@gmail.com)

**Dr. O. O. Ikpeze,**

Department of Parasitology and Entomology, Nnamdi Azikiwe University, Awka, Nigeria  
E-mail: oo.ikpeze@unizik.edu.ng

**EDITORIAL ASSISTANTS**

**Ugochukwu, Godwin C.,**

Department of Applied Biochemistry, Nnamdi Azikiwe University, Awka, Nigeria  
E-mail: [cg.ugochukwu@unizik.edu.ng](mailto:cg.ugochukwu@unizik.edu.ng)

**Ukonze, Chikodili B.,**

Department of Parasitology and Entomology, Nnamdi Azikiwe University, Awka, Nigeria  
E-mail: [cb.ukonze@unizik.edu.ng](mailto:cb.ukonze@unizik.edu.ng)

**EDITORIAL OFFICE**

Prof. R. N. Okigbo              Secretary

Dr. I. O. Igwilo & Ugochukwu, Godwin C, Managing Editor & Deputy Managing Editor  
Faculty of Biosciences, Nnamdi Azikiwe University, PMB 5025, Awka, Nigeria  
E-mail: [editor.thebioscientist@unizik.edu.ng](mailto:editor.thebioscientist@unizik.edu.ng)

Bankers: Zenith Bank PLC, Account name; Faculty of Biosciences Journal Unizik,  
Account No; 1013069523

**SUBSCRIPTION RATES**

Nigerian Naira: 3,500 or US Dollars: 22, including postage.

## EDITORIAL ADVISERS

<b>Prof. R. I. Egwuatu</b>	Faculty of Agriculture, Nnamdi Azikiwe University, Awka, Nigeria.
<b>Prof. O. C. Nwaorgu, FAS</b>	Department of Parasitology and Entomology, Nnamdi Azikiwe University, Awka, Nigeria.
<b>Prof. F. J. C. Odibo</b>	Department of Applied Microbiology and Brewing, Nnamdi Azikiwe University, Awka, Nigeria.
<b>Prof. Eka Braide, FAS</b>	Federal University, Lafia, Nigeria.
<b>Prof. M. A. Badejo</b>	Wesley University of Science and Technology (WUSTO), Ondo, Nigeria.
<b>Prof. Carl. E. Okezie</b>	Department of Plant Science and Biotechnology, University of Nigeria, Nsukka.
<b>Prof. William Brieger</b>	The Johns Hopkins Bloomberg School of Public Health, Baltimore, USA.
<b>Prof. G. O. Anoliefo</b>	Department of Plant Biology and Biotechnology, University of Benin, Benin City, Nigeria.
<b>Prof. Achi Ome Kalu</b>	Department of Microbiology, Michael Okpara University of Agriculture Umudike, Umuahia, Nigeria.
<b>Prof. C. U. Okeke</b>	Department of Botany, Nnamdi Azikiwe University, Awka, Nigeria.
<b>Prof. Mitchell G. Weiss</b>	Department of Public Health and Epidemiology, Swiss Tropical Institute, Basel, Switzerland.
<b>Prof. Michael Asuzu</b>	Department of Community Medicine, University of Ibadan Teaching Hospital, Ibadan, Nigeria.
<b>Prof. G. S. C. Okpokwasili</b>	Department of Microbiology, University of Porthacourt, Nigeria.
<b>Prof. C. Ekweozor</b>	Department of Marine Biology, River's State University of Science and Technology, Porthacourt, Nigeria.
<b>Prof. M. O. Monanu</b>	Department of Biochemistry, University of Porthacourt, Nigeria.
<b>Prof. C. O. Edeogu</b>	Faculty of Basic Medical Sciences, Ebonyi State University, Abakaliki, Nigeria.
<b>Dr. M. S. Abdulsalam</b>	Department of Biological Sciences, Nigerian Defence Academy, Zaria, Nigeria.
<b>Assoc. Prof. Dr. Kasem Soytong</b>	Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang (KMITL) Bangkok, Thailand.

## TABLE OF CONTENTS

### **The Bioscientist. Vol. 5, 2017**

- i.** The Bioscientist: Editorial Board
- ii.** The Bioscientist: Editorial Advisers
- iii.** Table of Contents

- Comparative studies on the nutrient composition and anti-nutritional factors in different parts  
**1** of *Moringa oleifera* plant found in Awka, Nigeria. Igwilo, I.O, Okonkwo, J.C, Ugochukwu,  
,G.C, Ezekwesili, C.N and Nwenyi, V., 1 - 12
- Determination of the free radical scavenging properties as indices for evaluating the  
**2** anticancer effects of *Vigna sesquipedalis*, Enemor, V. H. A., Nweke, G. I., Okoye, V. N and  
Agbara, A. C., 13 - 19
- Keratinophilic fungi associated with soils from selected villages in Ugwunye and Ojebogene  
**3** towns, Enugu State, Nigeria and their disease implications, Nwokeoma C. I. , Tasie F.O.,  
Akinyele, H. A. and Osanyinlusi, S. A, 20 - 31
- Some physicochemical parameters of water and bundance of mosquito larvae in potholes on  
**4** Jos roads in Nigeria, Deme, G. G., Malann, Y. D., Madara, A. A., Kum, F., Lumi, E. B,  
Jwanse, R. I and Lazarus, E. D., 32 - 38
- Ixodid ticks infestation of Zebu cattle crosses in Sokoto State, Nigeria, Okwuonu, E.S., Bala,  
**5** A.Y and Ikpeze, O.O., 50 – 56
- Preliminary studies on the antimalarial properties of the peels of *Citrus maxima* Linn,  
**6** Chibueze Peter Ihekwereme, Felix Ahamefule Onyegbule; Ndidi Veronica Okeke and  
Caroline Ogochukwu Obi, 57 - 65
- Soil-transmitted helminth parasites contaminating edible raw vegetables and fruits sold at  
**8** nkwo-edo market nNnewi Nigeria, Ikpeze, O.O and Chima, Stella Chizoba., 66 - 73
- 9** Antioxidant and antimicrobial studies of medicinal plant extracts of African birch (*Anogeissus leiocarpus*), Zogale (*Moringa oleifera*) and African custard apple (*Anona sengalensis*), Nwadiaro, Patience and James-Damulak, Kuben K., 74 - 82
- 10** Physico-chemical parameters associated with mosquito abundance in rice farms at Omor,  
Anambra State, Nigeria, Ukonze C.B., Umeh C.B., Ezihe E., Ononye B., DuruV.C. and  
Obiefule I.E., 82 - 87