

CURRICULUM VITAE

Professor Olubukola Oluranti BABALOLA, Pr.Sci.Nat., MASSAF,
FASLP, FTWAS



ORCID iD QR Code

NRF rated scientist

Vice President: Organization for Women in Science for the
Developing World), Africa
(Headquarter: Trieste, Italy)

<https://owsd.net/babalola-olubukola-oluranti-elected-vice-president>

Publication Metrics

Citation indices

	All	Since 2016
Citations	6269	5473
h-index	36	34
i10-index	91	83

Elected Member, The World Academy of Sciences (TWAS)

Elected Member, Academy of Sciences of South Africa (ASSAF)

1. Personal

Surname (Title): **Babalola (Full Professor)**
Names: **Olubukola Oluranti**
Sex: **Female**

Languages: **English, French (Working knowledge)**
Marital status: **Married**
Postal address: **Room G06/G10, Research Director, Food Security and Safety Niche Area, North-West University, Private Bag X2046 (Internal box 575), Mmabatho, 2735, South Africa.**

Email: olubukola.babalola@nwu.ac.za / olubukola_babalola@yahoo.com
Driver's license: **Code B**
Tel (work): **Work: +27 183892568**

2. Educational Attainment

- **2019** **MBA** General Mngt, North-West University, South Africa. Jan 2017 - Nov. 27, 2019
- **2016** **Cert.** Management, North-West University, South Africa. Jan 2016 - Dec 2016
- **2012** **Cert.** Biosecurity Education. Bradford University, United Kingdom. 2012
- **2002** **Ph.D.** Microbiology, University of Ibadan, Ibadan Nigeria. Jan. 1997 - July 17, 2002.
- **1996** **M.Sc.** Microbiology, University of Ibadan, Ibadan Nigeria. May 1994 - Nov. 28, 1996.
- **1992** **B.Sc. (Hons).** Microbiology, Ogun State Univ, Ago-Iwoye Nig. Oct. 1988 - Nov. 5, 1992.
- **1987** **WASC (Sciences)**, Methodist Girls' High School, Yaba, Lagos, Nigeria. Sept 1982 - June 1987 (Punctuality monitor)
- **1981** **First school leaving cert**, African Church Princess Primary School, Akoka, Lagos, Nigeria.

Web of Science ResearcherID Y-7564-2019

Skype: oobabalola

<http://scholar.google.com/citations?user=rmHHG2UAAA>
[AJ](#)

http://www.researchgate.net/profile/Olubukola_Babalola

<http://za.linkedin.com/pub/olubukola-oluranti-babalola/18/74b/756>

<http://www.nepadsanbio.org/press-room-media/articles/wealth-energy-and-experience-profiling-prof-olubukola-babalola-nrf-rated>

<https://www.pubfacts.com/author/Olubukola+Oluranti+Balalola>

<https://youtu.be/0jpiGMLwgqE>

<http://www.futureafricaScience/index.php/profile/olubukolaoluranti-babalola-350>

<https://twitter.com/BukiBabalola>

Scopus Author ID: 36166570300

academic.research.microsoft.com/Author/23881061/

ORCID iD: <http://orcid.org/0000-0003-4344-1909>

ResearcherID (Thomson Reuters): N-3476-2018

<https://www.facebook.com/olubukola.babalola>

<http://natural-sciences.nwu.ac.za/microbiology/olubukola-oluranti-babalola>

www.futureafricaScience/index.php/leadership-programmes/aslp/aslp-2015

Loop profile: 93752

<https://www.youtube.com/watch?v=8PNGfNQx6Xw>

<https://learningrevolution.com/members/OlubukolaOlurantiBalalola>

<https://www.owisd.net/25-anniversary?fbclid=IwAR23C05guingW2vgeYyBxm7ZPDTumY8ldQO1j-phmKW147QCIIISxy1LOyE>

3. Professional Certificates: 53

(from Germany, Italy, Kenya, Mauritius, Nigeria, South Africa, Spain, Turkey, UK, and USA)

4. Other Professional, Developmental Courses/Workshops Attended: 70

(Israel, Nigeria, and South Africa)

5. Employment: Teaching/Research Experience

(5a) Positions Occupied/Work Schedule

(k) Jan 2016 - : **Full Professor:** North-West University, South Africa

June 2015 - to date: **Director Food Security and Safety Niche Area:** North-West University, South Africa

Jan 2013 - Dec 2015: **Associate Professor:** North-West University, South Africa.

Sept 2009 - Dec 2012: **Senior lecturer:** North-West University, South Africa.

March 2010 - Feb. 2012: **Head of Department:** North-West University, South Africa.

Work schedule:

Account Supervisor: Food Security and Safety Unit leader responsible for the fiscal integrity of the organization. Provide leadership, oversight, and management philosophy to ensure that all funds and spent and managed according to the goal, objectives, and mission of the organization, and in accordance with institutional policies. Also ensure that the Fiscal Officer has the education and training required to perform his/her assigned functions.

Research: Set priorities, develop a work schedule, monitor progress towards goals, and track details/data/information/activities for the research projects;

Determine strategies to move the research project forward, set goals, create and implement actions plans, and evaluate the process and results;

Adopt and promote ethical standard in research protocols and best practices for project management.

Project students graduated

Honours students: >80.

Masters students: 20.

PhD students: 21

(5b) Academic Leadership/Administrative: (and Academic Session)

Aside from academic certificate of PhD and MBA, and various professional certificates on soft skills and people management and my unique leadership exposure and experience as the Vice President of OWSD, I have successfully served in various committees, headed a number of committees, led a number of colleagues, and managed a multicultural research laboratory of ~40 research scholars.

- ✓ **Director**, Food Security and Safety Niche Area: May 2015 Dec 2019, Reappointed Jan 2020 to date
- ✓ Member, Faculty Ethics Committee: April 2020/05/04 to 2023/04/23
- ✓ Member, NWU FNAS Research Support Commission 2019
- ✓ Member, Promotions committee: 2019 to date
- ✓ Member, Examination committee: 2018 to date
- ✓ Member, Bursary committee: 2018 to date
- ✓ **Coordinator**, Faculty Quality Committee: March 2012 to Dec 2015. (Duties: coordinate quality activities in the Faculty; FAST; ensure an active Committee; coordinate all IPE's when due (e.g. receive plan for 2011 2016 from Campus Quality Coordinator and be guided by it); work hand in hand with the teaching and learning, study guide, and research coordinators because what they do supports quality processes; prepare an update report for Faculty Board every time; a copy of which should be forward to Campus Quality Coordinator so that s/he can also update the Campus EXCO)
- ✓ Member, Sub-committee on external examiners: Oct 2014 to date
- ✓ Member, Faculty Research Committee: March 2012 to date
- ✓ Member, School Research Committee: April 2012 to 2013
- ✓ **Subject Chair**, Biological Sciences: March 2010 to Feb. 2012
- ✓ Member, Faculty Science Committee: March 2010 to Feb. 2012
- ✓ Member, Faculty Extended Management Committee: March 2010 to Feb. 2012
- ✓ Member, Senate Committee for Philosophical Grounding: May 2010 to 2016
- ✓ Member, Faculty Alignment Committee: March 2010 to Feb. 2012
- ✓ Member, Faculty Quality Committee: March 2010 to Feb. 2012
- ✓ Member, FNAS Research and Innovation Committee

(i) **Lecturer 1 (Oct. 2006 Sept 2009)/ Lecturer 11 (Oct. 2003 Sept 2006)**, Microbial Biotechnology, Department of Microbiology, Olabisi Onabanjo University, Ago-Iwoye, Ogun State, Nigeria.

Work schedule:

Teaching and research. I contributed to the teaching of microbiological topics in undergraduate and graduate programs.

Student advised (Seminars and Laboratory projects): Honours students - 40

Administrative: (and academic session).

Member, Faculty ethics of publication, grants and research committee 2008/2009

Member, Faculty week committee 2008/2009

Head, Missing results search team 2007/2008

Member, Departmental board of examiners 2006/2007
Final year student seminar/project coordinator 2005/2006
Assistant departmental postgraduate coordinator 2005/2006
Member, Faculty seminar committee 2005/2006
Course adviser, 100 level B.Sc. Microbiology students 2005/2006

(h) **Postdoctoral scientist (May 2007 Dec. 2008; Prof Don Cowan)**, Institute for Microbial Biotechnology and Metagenomics (IMBM), University of the Western Cape, **South Africa**.

My project entailed:

- Expanding the 16S rDNA framework for the genus *Streptomyces* from specific extreme environments via metagenomics and culture-based techniques. The work involves current molecular biology techniques, and the use of bioinformatics.

Work schedule:

- Implementation of actinomycetes research project
- The day-to-day running of the research project
- Presentation of research outputs in the form of papers at conferences
- Report writing and result presentation in manuscript form
- Other relevant duties as assigned by the Director

(g) **Postdoctoral Fellow (July 2004 – March 2006; Prof Jonathan Gressel)**, Life Science Building, Weizmann Institute of Science, Rehovot, **Israel IL-76100**.

The project entailed:

Transgenically enhancing the virulence of fungi used as biocontrol agent via

1. Designing and use of failsafe mechanisms to prevent spread and introgression
2. Enhancing of virulence of *Fusarium* spp against *Orobancha*
3. Enhancing *Colletotrichum* against *Abutilon*
4. Enhancing *Alternaria cassiae* against *Cassia senna*.

Work schedule:

- Set up experiments
- Implementation of the research project
- The day-to-day running of the research project
- Data collection, input, statistical analysis
- Report writing and result presentation in manuscript form

(f) **Post-course Trainee (May 2002 – October 2002)**, Molecular Biology and Biotechnology Unit, International Centre of Insect Physiology and Ecology (ICIPE) Nairobi, **Kenya**. (Sponsor: OWSD)

Training fundamentals (schedule):

- Plasmid isolation, Northern blotting, construction of genomic DNA libraries, DNA probe, Hybridization probe, utilization of public databases on the internet, polyacrylamide gel electrophoresis,

fluorescent staining, Restriction fragment Length Polymorphism, Amplified fragment Length Polymorphism, Elisa, Phenotyping, DNA footprinting.

- Bioinformatics: Sequence retrieval and analysis, multiple sequence analysis, phylogeny reconstruction.

(e) **Dissertation Research Internship (DRIP) Scholar (July 2001 December 2001)**, Molecular Biology and Biotechnology Unit, International Centre of Insect Physiology and Ecology (ICIPE) Nairobi, **Kenya**. (Sponsor: OWSD)

Work schedule:

- Determination of ethylene production from bacterial isolates using gas chromatography and mass spectrometer
- DNA extraction, RAPD-PCR, and targeted PCR amplification of ethylene producing bacteria
- Bacterial identification by API techniques
- Primer design

(d) **Research scholar (January 2001 - June 2001)**, Kenya Sugar Research Foundation (KESREF) Kisumu **Kenya**. (Sponsor: OWSD).

Work schedule:

- Pilot farm feasibility study of already established greenhouse work
- Establishment and management of multilocational on-farm research trials.
- Data collection, management and analysis using SAS for windows.
- Microbial plate counts of bacteria isolate obtained from cowpea Stand
- Ascertain probable effect of bacterial inoculum density and determination of inoculum threshold level

(c) **Visiting Research Fellow (July 1998 December 2000)**, Plant Health Management Division, International Institute of Tropical Agriculture (IITA) Ibadan, Oyo State.

Work schedule:

- Isolation, purification, screening, and estimation of soil bacteria.
- Establishment and management of screen-house trials (*Striga*).
- Data collection, management and analysis using SAS for windows.

(b) **Laboratory Assistant (January 1994 June 1994)**, Total Quality Control Department, Market Movers Nigeria Limited, Plot 22, Block 'A' Cocoa Industries Road, Ogba, Ikeja, **Lagos**.

Duties:

- Ensuring the fruits to be processed meet all the buying specification of the company.
- Daily supervision of the Company's sanitary condition.
- Bacteriological examination of raw water.
- Supervision of the hygiene level of workers on the production line.
- Ascertaining the microbiological quality of the finished products.
- Forwarding memorandum to Production Manager.

- Assessment of product recalls.

(a) **Tutor (Nov. 1992 –Nov. 1993)**, School of Nursing, Ituk Mbang, Akwa Ibom State, Nigeria (NYSC primary assignment).

6. Publications (h-INDEX, 36). *Corresponding Author

(6a) Submitted Manuscripts

- 1) 7

(6b) Papers in Refereed Journals

2021

- 1) Imade E and **Babalola OO*** (2021) Biotechnological utilization: the role of *Zea mays* rhizospheric bacteria in ecosystem sustainability. *Applied Microbiology and Biotechnology* (IF 3.350 2019). <https://doi.org/10.1007/s00253-021-11351-6> Springer.
- 2) Akinola SA, Ayangbenro AS and **Babalola OO*** (2021) “The diverse functional genes of maize rhizosphere microbiota assessed using shotgun metagenomics” *Journal of the Science of Food and Agriculture* 101(8): 3193-3201. (IF 2.614 2019). <https://doi.org/10.1002/JSFA.10948> Wiley
- 3) Adeniji AA, Ayangbenro AS and **Babalola OO*** (2021) Genomic exploration of *Bacillus thuringiensis* MORWBS1.1 - candidate biocontrol agent, predicts genes for biosynthesis of zwittermicin, 4,5-DOPA dioxygenase extradiol, and quercetin 2,3-dioxygenase. *Molecular Plant-microbe Interactions: MPMI*. (IF 3.696 2019/2020). <https://apsjournals.apsnet.org/doi/pdf/10.1094/MPMI-10-20-0272-SC> The American Phytopathological Society (APS) publications
- 4) Enagbonma BJ, Amoo AE and **Babalola OO*** (2021) Biopedturbation by termites affects respiration profiles of bacterial communities from termite mound soils. *Journal of Soil Science and Plant Nutrition: JSSP*. (IF 2.156 2019). <https://rdcu.be/ckw5d> Springer.
- 5) Amoo AE and **Babalola OO*** (2021) Microbial diversity of temperate pine and native forest soils profiled by 16S rRNA gene amplicon sequencing. *Microbiology Resource Announcements* 10(20): e00298-21. American Society for Microbiology.
- 6) Nwachukwu BC and **Babalola OO*** (2021) Perspectives for sustainable agriculture from the microbiome in plant rhizosphere. *Plant Biotechnology Reports*. (IF 1.462 2019). <https://doi.org/10.1007/s11816-021-00676-3> <https://rdcu.be/ckAVM> Springer
- 7) Adeleke BS and **Babalola OO*** (2021) Biotechnological overview of agriculturally important endophytic fungi. *Horticulture, Environment, and Biotechnology* 62(4) (IF 1.42). <https://doi.org/10.1007/s13580-021-00334-1> Springer
- 8) Fadiji AE, Kanu JO, and **Babalola OO*** (2021) Impact of cropping systems on the functional diversity of rhizosphere microbial communities associated with maize plant: a shotgun approach. *Archives of Microbiology*. (IF 1.884 2019). <https://rdcu.be/ckmrs> <https://doi.org/10.1007/s00203-021-02354-y> Springer
- 9) Agbodjato NA, Adoko MY, **Babalola OO***, Amogou O, Sina H, Badé FT, Salami H, Noumavo P, Adjanohoun A, Baba-Moussa LS (2021). Efficacy of biostimulants formulated with *Pseudomonas putida* and clay, peat, clay-peat binders on maize productivity in a farming environment in southern Benin. *Research Topic: Plant Growth-Promoting Microorganisms for Sustainable Agricultural Production. Frontiers in Sustainable Food Systems*. 5:666718. (Citescore 1.1) <https://doi.org/10.3389/fsufs.2021.666718>. Edited by: Everlon Cid Rigobelo. Switzerland: Frontiers.

- 10) Fasusi O, Amoo A, **Babalola OO*** (2021) Propagation and characterization of viable arbuscular mycorrhizal fungal spores within maize plant (*Zea mays* L.). *Journal of the Science of Food and Agriculture* (IF 2.614 2019) <https://doi.org/10.1002/jsfa.11235>. Wiley: England.
- 11) Fadiji AE, Ayangbenro AS and Babalola OO* (2021) Unveiling the putative functional genes present in root-associated endophytic microbiome from maize plant using the shotgun approach. *Journal of Applied Genetics* 62(2) 339-351. (IF 2.027 2019). <https://rdcu.be/cd6zH>
<https://doi.org/10.1007/s13353-021-00611-w> <http://link.springer.com/article/10.1007/s13353-021-00611-w>. Germany: Springer.
- 12) Enebe MC and **Babalola OO*** (2021) Metagenomics assessment of soil fertilization on the chemotaxis and disease suppressive genes abundance in the maize rhizosphere. *Genes*: 12, 535. (IF 3.759) <https://doi.org/10.3390/genes12040535> MDPI
- 13) **Babalola OO***, Emmanuel OC, Adeleke SA, Odelade KA, Nwachukwu BC, Ayiti OE, Adegboyega TT and Igiehon NO (2021). Rhizosphere microbiome cooperations: Strategies for sustainable crop production Research Topic: Plant Microbiome: Interactions, Mechanisms of Action, and Applications. *Current Microbiology* 78(4) 1069-1085. (Q2; IF 1.610 2019/2020). <https://doi.org/10.1007/s00284-021-02375-2>. Germany: Springer Verlag.
- 14) Fasusi OA, Amoo AE and Ayangbenro AS and **Babalola OO*** (2021). Genomic analysis of a *Pseudomonas* strain with multiple plant growth-promoting properties. *Rhizosphere* 18: 100342 (Q2; IF 1.84 2019) <https://doi.org/10.1016/j.rhisph.2021.100342> 100342
<https://www.sciencedirect.com/science/article/abs/pii/S2452219821000380>. The Netherlands: Elsevier.
- 15) **Babalola OO***, Du Plessis Y and Babalola SS (2021). Insight into the organizational culture and challenges faced by women STEM leaders in Africa. - *Social Sciences* 10(3): 105. MDPI (Citescore 1.3 scopus). <https://doi.org/10.3390/socsci10030105> ; <https://www.mdpi.com/2076-0760/10/3/105#>. Switzerland : MDPI.
- 16) **Babalola OO***, Fasusi OA, Amoo AE and Ayangbenro AS (2021). Draft genomic analysis of *Pseudomonas* sp. strain OA3, a potential plant growth-promoting rhizospheric bacterium. *Microbiology Resource Announcements* 10:e00029-21. <https://mra.asm.org/content/10/11/e00029-21> USA: American Society for Microbiology
- 17) Fadiji AE, Kanu JO, **Babalola OO*** (2021). Metagenomic profiling of rhizosphere microbial community structure and diversity associated with maize plant as affected by cropping systems. *International Microbiology*. <https://doi.org/10.1007/s10123-021-00169-x>. Germany: Springer.
- 18) Igiehon ON and **Babalola OO*** (2021). Rhizobium and mycorrhizal fungal species improved soybean yield under drought stress conditions". *Current Microbiology* 78(4) 1615-1627. (Q2; IF 1.610 2019/2020). <https://doi.org/10.1007/s00284-021-02432-w> or <https://link.springer.com/content/pdf/10.1007/s00284-021-02432-w.pdf>. Germany: Springer Verlag.
- 19) Fasusi OA and **Babalola OO*** (2021) The multifaceted plant beneficial rhizobacteria toward agricultural sustainability- a review *Plant Protection Science*. 57:95-111. (Q2 Agronomy and Crop Science; IF 1.361 2019/2020) https://www.agriculturejournals.cz/web/pps.htm?type=article&id=130_2020-PPS <https://doi.org/10.17221/130/2020-PPS>. Czech Republic: Czech Academy of Agricultural Sciences.

- 20) **Babalola OO***, Molefe RR, Amoo AE (2021). Metagenome Assembly and Metagenome-Assembled Genome Sequences from the Rhizosphere of Maize Plants in Mafikeng, South Africa. *Microbiology Resource Announcements*. 10:e00954-20. <https://doi.org/10.1128/MRA.00954-20>. USA: American Society for Microbiology.
- 21) **Babalola OO***, Nwachukwu BC, and Ayangbenro AS (2021). High-throughput sequencing survey of sunflower soil. *Microbiology Resource Announcements* MRA01331-20. <https://mra.asm.org/content/10/8/e01331-20>. American Society for Microbiology, USA.
- 22) **Babalola OO***, Molefe RR and Amoo AE (2021). Revealing the active microbiome connected with the rhizosphere soil of maize plants in Ventersdorp, South Africa. *Molecular Plant-Microbe Interactions* MPMI-09-20-0259-A / Manuscript #15013 / *Biodiversity Data Journal* 9: e60245. (IF 1.331, Q2 Ecology). <https://doi.org/10.3897/BDJ.9.e60245>. Bulgaria: Pensoft Publisher.
- 23) Omotayo OP, **Babalola OO*** (2021). Resident Rhizosphere Microbiome's Ecological Dynamics and Conservation: Towards achieving the Envisioned Sustainable Development Goals, A review. *International Soil and Water Conservation Research* 9:127-142. (IF 3.770 2019-2020). <https://doi.org/10.1016/j.iswcr.2020.08.002>
<https://www.sciencedirect.com/science/article/pii/S209563392030054X>. China: Elsevier.
- 24) Adeleke BS and **Babalola OO*** (2021). Pharmacological potential of fungal endophytes associated with medicinal plants: a review. *Journal of Fungi* 7: 147. (IF 1.416 2020-2021). <https://doi.org/10.3390/jof7020147>. Switzerland: MDPI.
- 25) Alawiye TT and **Babalola OO*** (2021). Metagenomic insight into the community structure and functional genes in the sunflower rhizosphere microbiome. *Agriculture* 11(2), 167. MDPI (IF 2.072, Q2 Agronomy). <https://doi.org/10.3390/agriculture11020167>. Switzerland: MDPI.
- 26) Fasusi OA, Cruz C and **Babalola OO*** (2021). Agricultural Sustainability: Microbial Biofertilizers in Rhizosphere Management. *Agriculture* 11, 163. (IF 2.072, Q2 Agronomy). <https://doi.org/10.3390/agriculture11020163>. <https://www.mdpi.com/2077-0472/11/2/163/pdf>. Switzerland: MDPI.
- 27) Enebe MC and **Babalola OO*** (2021) Soil fertilization affects the abundance and distribution of carbon and nitrogen cycling genes in the maize rhizosphere. *AMB Express* 11:24 (IF 2.31 2018, Applied Microbiology and Biotechnology (Q2); Biophysics (Q2)). [10.21203/rs.3.rs-26191/v2](https://doi.org/10.21203/rs.3.rs-26191/v2)
<https://rdcu.be/c0ca>. Springer: Germany.
- 28) Fadiji AE, Ayangbenro AS and **Babalola OO*** (2021). Shotgun metagenomics reveals the functional diversity of root-associated endophytic microbiomes in maize plant” *Current Plant Biology* 25: 100195. Elsevier (CiteScore 3.7). [https://authors.elsevier.com/sd/article/S2214-6628\(21\)00001-3](https://authors.elsevier.com/sd/article/S2214-6628(21)00001-3). The Netherlands: Elsevier.
- 29) Emmanuel, OC.; Akintola, OA.; Tetteh, FM.; **Babalola, OO*** (2021). Combined Application of Inoculant, Phosphorus and Potassium Enhances Cowpea Yield in Savanna Soils. *Agronomy* 11, 15. (IF 2.608). <https://www.mdpi.com/2073-4395/11/1/15/pdf>
<https://doi.org/10.3390/agronomy11010015>. Switzerland: MDPI.
- 30) Akinola SA, Ayangbenro AS, and **Babalola OO*** (2021) The immense functional attributes of maize rhizosphere microbiome: a shotgun sequencing approach. *Agriculture* 11:118. (IF 2.072, Q2

Agronomy). <https://doi.org/10.3390/agriculture11020118> <https://www.mdpi.com/2077-0472/11/2/118/pdf>. Switzerland: MDPI.

- 31) Nwachukwu BC, Ayangbenro AS and **Babalola OO*** (2021). Elucidating the rhizosphere associated bacteria for environmental sustainability. *Agriculture* 11:75. (IF 2.072, Q2 Agronomy). <https://doi.org/10.3390/agriculture11010075>. Switzerland: MDPI.
- 32) **Babalola OO***, Omotayo OP, Igiehon NO (2021). Survey of maize rhizosphere microbiome using shotgun metagenomics. *Microbiology Resource Announcements* 10(1) 9:e01309-20. <https://doi.org/10.1128/MRA.01309-20>. USA: American Society for Microbiology.
- 33) Adegboye MF, Ojuederie OB, Talia PM, and **Babalola OO*** (2021) Bioprospecting of microbial strains for biofuel production: Metabolic engineering, applications, and challenges. *Biotechnology for Biofuels* 14(5). (IF 5.62 Q1). <https://doi.org/10.1186/s13068-020-01853-2> <https://rdcu.be/cdbdP>. Germany: Springer.
- 34) Alawiye TT and **Babalola OO*** (2021). Metabolomics: Current application and prospects in crop production. *Biologia* 76: 227-239. (USA) (IF 0.811 2019). <https://doi.org/10.2478/s11756-020-00574-z>. Germany: Springer.
- 35) Akinola S and **Babalola OO*** (2021) The fungal and archaeal community within plant rhizosphere: A review on their contribution to crop safety. *Journal of Plant Nutrition* 44 (4): 600-618. (IF 1.132 2019). <https://doi.org/10.1080/01904167.2020.1845376>. England: Taylor and Francis.
- 36) Chukwuneme CF, Ayangbenro AS, **Babalola OO*** and Kutu FR (2021). Functional diversity of microbial communities in two contrasting maize rhizosphere soils. *Rhizosphere* 17:100282. (IF 1.84, Q2). <https://doi.org/10.1016/j.rhisph.2020.100282>. The Netherlands: Elsevier.
- 37) Igiehon NO, **Babalola OO***, Cheseto X, and Torto B (2021).. Effects of rhizobia and arbuscular mycorrhizal fungi on yield, size distribution and fatty acid of soybean seeds grown under drought stress. *Microbiological Research* 242: 126640. (IF 3.97). <https://doi.org/10.1016/j.micres.2020.126640>. The Netherlands: Elsevier.

2020

- 38) Ayangbenro AS and **Babalola OO*** (2020). Reclamation of arid and semi-arid soils: the role of plant growth-promoting archaea and bacteria. *Current Plant Biology* 100173. (CiteScore 3.7). <https://doi.org/10.1016/j.cpb.2020.100173>. The Netherlands: Elsevier.
- 39) Fadiji AE and **Babalola OO*** (2020) Exploring the potentialities of beneficial endophytes for improved plant growth. *Saudi Journal of Biological Sciences* 27: 3622-3633 2020. (IF 2.802 2019). [https://authors.elsevier.com/sd/article/S1319-562X\(20\)30338-7](https://authors.elsevier.com/sd/article/S1319-562X(20)30338-7). The Netherlands: Elsevier.
- 40) **Babalola OO*** Chukwuneme CF, and Ayangbenro AS (2020). Shotgun Sequencing Revealed the Microbiota of *Zea mays* Rhizosphere of a Former Grassland and an Intensively Cultivated Agricultural Land. *Microbiology Resource Announcements* 9 (49):e01058-20. <https://doi.org/10.1128/MRA.01058-20>. USA: American Society for Microbiology.
- 41) Ayangbenro AS and **Babalola OO*** (2020). Genomic analysis of *Bacillus cereus* NWUAB01 and its heavy metal removal potential. AMAB-D-20-00077/. *Scientific Reports* 10:19660. (IF 3.998 2019/2020). www.nature.com/articles/s41598-020-75170-x. London: Nature Publishing Group.
- 42) Ojuederie OB, Ajiboye John Adebayo, **Babalola OO*** (2020). Biochemical and histopathological assessment of some key tissues in healthy male Wistar Rats fed with African Yam Bean (*Sphenostylis*

- stenocarpa) Seed and Tuber Meals. Journal of Food Quality Article ID 8892618 | <https://doi.org/10.1155/2020/8892618>. (IF 1.763). England: Wiley.
- 43) Babalola OO* and Enebe MC (2020). Metagenomes of maize rhizosphere samples after different fertilization treatments at Molelwane farm located in North West Province, South Africa. Microbiology Resource Announcements 9:e00937-20. <https://doi.org/10.1128/MRA.00937-20>. USA: American Society for Microbiology.
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(6f) Online Resources

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1. **Babalola OO*** (2021, virtual) 11th Symposium of the International Society of Root Research. Roots of Discovery: Exploring New Frontiers. University of Missouri, MU Conference Office, USA.
2. Enagbonma BJ and **Babalola OO** (2020, virtual) Bioturbation by termite promote the plant-growth promoting genes in mound-soil. International Society for Microbial Ecology (ISME) Virtual Microbial Ecology Summit. 11-12 November 2020.
3. Uzoh IM, Okolo CC, Onunwa AO and **Babalola OO** (2020, virtual) Soil P, Arbuscular mycorrhizal spore count and root colonization of cowpea in biochar amended soils under maize/cowpea cropping systems. SSS12.7 - Current Debates on Land Degradation and Development. Abstract ID number EGU2020-12936. EGU General Assembly 2020, **Austria**. <https://meetingorganizer.copernicus.org/EGU2020/EGU2020-12936.html>
4. Igiehon NO and **Babalola OO*** (Sept 2020 accepted, date postponed due to COVID) Growth and mineral nutrient enhancement of soybean by new *rhizobium* species and mycorrhizal fungi under drought conditions. The FOODCON 2020. Mantra Bell City, **Melbourne, Australia**.
5. Gaebee L, Enagbonma BJ and **Babalola OO*** (2020) Archaeal communities in termite mound soils revealed by illumina high-throughput sequencing. Control #2974. American Society for Microbiology (ASM) Microbe 2020 Virtual meeting June 18-22, McCormick Center, **Chicago, Illinois, USA**.
6. Sholeye AR, Ojuederie OB and **Babalola OO*** (2019) "*Land Use and Its Influence on Soil Bacterial Diversity*" (ID 18) poster Session: Structural and functional diversity. 4th Thünen Symposium on Soil Metagenomics. 11 - 13 December, **Braunschweig/ Germany**.
7. Ajilogba CF, Mothupi T, Gaebee L, **Babalola OO*** (2019) "*Bacterial profile and biodiversity of Bambara groundnut rhizospheric soil*" (ID 19) Poster Session: Metagenomics of the plant microbiome. 4th Thünen Symposium on Soil Metagenomics. 11 - 13 December, **Braunschweig/ Germany**.
8. Cromwell S, Enagbonma BJ, Amoo AE, and **Babalola OO** (2019) *Effect of termite bioturbation on fungal diversity and community structure as revealed by shotgun sequencing* (ID 20) poster Session:

- Structural and functional diversity. 4th Thünen Symposium on Soil Metagenomics. 11 - 13 December, **Braunschweig/ Germany**.
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 10. Emmanuel OC and **Babalola OO** (2019) The Innovation Bridge (IB) Technology Matchmaking and Showcasing Event and Science Forum South Africa (SFSA). CSIR International Convention Centre 4 - 6 December 2019, **Pretoria, South Africa**.
 11. Ambele FC, Bisseleua DBH, Komivi SA, Christian TCLD, **Babalola OO**, Ekesi S (2019) Effects of planting cocoa without shade trees on termite pest outbreak in cocoa plantations. Proceeding of the 23RD meeting and conference of African Association of Insect Scientists at National Public Health Institute Abidjan, Côte d'Ivoire (18 - 22 November 2019) **Book of Abstract 43 Sub-Theme 2: Invasive Species in Africa: Monitoring Surveillance and Control (ST-2.05)**.
 12. Masowa MM, **Babalola OO**, Mulidzi RA and Kutu FR, (2019). **Poster:** In-field assessment of phosphorus and potassium mineralization from winery solid waste compost on sandy loam Ferric Luvisol. International Annual Meeting of American Society of Agronomy, Crop Science Society of America, 10 - 13 November 2019 at San Antonio, **Texas, USA**.
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 66. Fashola MO and **Babalola OO** (2016). Screening of heavy metal resistant bacteria from an abandoned gold mine tailings and soil in Krugersdorp, South Africa. Session 17.02. The South African Society for Microbiology (SASM) 2016 Biennial Congress. 17-20 January 2016, Coastlands, **Umhlanga, South Africa**. www.dut.ac.za/sasm/
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 68. **Babalola OO** (2015). Rhizobacterial community structure in Mahikeng rhizospheric soil and associated plant growth-promoting potential. 24-27 August 2015. 18th International Plant Protection Congress (IPPC). Henry-Ford-Bau, Garystrasse, **Berlin, Germany**.
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 70. **Babalola OO** (2015). Rhizobacterial community structure in Mahikeng rhizospheric soil and associated plant growth-promoting potential. 21-25 June 2015. Rhizosphere4. **Maastricht, The Netherlands**.
 71. **Babalola OO** and Motsewabangwe KR (2015). Comparative analysis of autochthonous and zymogenous bacteria in Mahikeng Agricultural Ecosystem. 21-25 June 2015. Rhizosphere4. **Maastricht, The Netherlands**.
 72. **Babalola OO** (2015). June 16th-19th, 10th International PGPR Workshop. Universite de Liege, **Liege, Belgium**
 73. Dare MO and **Babalola OO** (2014). Does bush burning reduce arbuscular mycorrhizal fungal spore abundance for succeeding cropping season? Paper at 5th ASM Conference on Beneficial Microbes, **Washington DC, USA**. September 27 - 30 2014.
 74. Esuola CO, Heine T, **Babalola OO**, Akinyemi SOS, Schlomann M, and Tischler D (2014). Production of fine chemicals from microbial enzymes for horticultural crop development. 29th International Horticultural Congress (IHC 2014), **Brisbane**. www.ihc2014.org. Sustaining lives, livelihoods and landscape. 17-22 August 2014. <http://ihc2014.digitalposter.com.au/posters-topics/24/24c>.

75. Egbuta M, Mwanza M, **Babalola OO** (2014). Synergistic effects of different filamentous fungi species. The South African Society of Biochemistry and Molecular Biology Conference (SASBMB) P113. Goudini Spa, **South Africa**. <http://sasbmbconference2014.co.za/wp-content/uploads/2014/06/SABMB%20Poster%20schedule%20and%20abstracts%2027%20June.pdf>
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79. Adegboye MF and **Babalola OO** (2013). Isolation of Polyketides Producing Actinomycete Isolates via PCR-Based Genome Screening for PKS Gene. Molecular Life Sciences 2013 (ID: FTP42), Page 55. International Symposium of the German Society for Biochemistry and Molecular Biology (GBM). 3rd 6th October. Campus Westend, Goethe University. **Frankfurt, Germany**. http://www.molecular-life-sciences.de/index.php/program.html?file=tl_files/program/GBM%202013_Main%20Programme-small.pdf
80. Ajilogba CF and **Babalola OO** (2013). Biocontrol treatment Of Fusarium wilt In tomato. SASM 2013 (ID. 13, Poster) (The 18th Biennial Conference of the South African Society for Microbiology). 24-27 Nov. Forever Resorts Warmbaths, Bela-Bela. **South Africa**
81. Adegboye MF and **Babalola OO** (2013). SASM 2013 (ID. 43, Poster) (The 18th Biennial Conference of the South African Society for Microbiology). 24-27 Nov. Forever Resorts Warmbaths, Bela-Bela. **South Africa**. www.sasm2013.co.za
82. Adegboye MF and Babalola OO (2013). Isolation of Polyketides Producing Actinomycete Isolates via PCR Based Genome Screening for PKS Gene (Poster FTP42). Annual Conference of the Association for General and Applied Microbiology (VAAM) in collaboration with the Royal Netherlands Society for Microbiology (KNVM) 10-13 March 2013. Congress Center Bremen und Messe **Bremen, Germany**.
83. Modise L and **Babalola OO** (2013). Isolation and characterization of the bacterial community in cultivated plants rhizosphere of public school gardens in Mahikeng. SASM 2013 (ID. 190, Poster) (The 18th Biennial Conference of the South African Society for Microbiology). 24-27 Nov. Forever Resorts Warmbaths, Bela-Bela. **South Africa**
84. Khantsi M and **Babalola OO** (2013). 1-Aminocyclopropane-1-carboxylate deaminase activity as a marker for identifying plant-growth-promoting rhizobacteria in cultivated soil SASM 2013 (ID. 5,

- Oral) (The 18th Biennial Conference of the South African Society for Microbiology). 24-27 Nov. Forever Resorts Warmbaths, Bela-Bela. **South Africa**
85. Masenya K and **Babalola OO** (2013). Identification of native rhizosphere community composition of bacteria in Mahikeng soil, South Africa. SASM 2013 (ID. 54) (The 18th Biennial Conference of the South African Society for Microbiology). 24-27 Nov. Forever Resorts Warmbaths, Bela-Bela. **South Africa**.
 86. Lawal TE and **Babalola OO** (2013). Poultry manure as carrier for biofertilizer: effects on maize (*Zea mays*) yield growth SASM 2013 (ID. 47, Poster) (The 18th Biennial Conference of the South African Society for Microbiology). 24-27 Nov. Forever Resorts Warmbaths, Bela-Bela. **South Africa**
 87. Adegboye MF and **Babalola OO** (2013). "Isolation of glycopeptide producing Streptomyces isolates via PCR-based genome screening for oxyB genes" (abstract cod.: 238) V International Conference on Environmental, Industrial and Applied Microbiology BioMicroWorld2013, **Madrid (Spain)**, 2-4 October 2013 <http://www.biomicroworld2013.org>
 88. Lawal TE and **Babalola OO** (2013). Poultry manure as carrier for *Bacillus subtilis*: Effect on maize (*Zea mays*) growth and yield. OMICS Group Conferences. 4th World Congress on Biotechnology. 23-25 Sept 2013. DoubleTree by Hilton Hotel Raleigh-Durham Airport at RTP, NC, **USA**. J. of Biotechnol and Biomater 3 (3): 96. <http://dx.doi.org/10.4172/2155-952X.S1.025>
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 90. Modise L and **Babalola OO** (2013). Isolation and identification of rhizosphere bacterial community with potential plant growth promotion traits. 2012/2013 DST-NRF Internship program intern's research day, pg 51.
 91. Sebogodi KM and **Babalola OO** (2013). Isolation and molecular characterization of sulfur-and iron-oxidizing bacteria from Kalahari Goldridge Mine, in the North-West Province, South Africa, 2012/2013 DST-NRF Internship program intern's research day, Pg 83.
 92. Tak HI and **Babalola OO** (2012). Ni resistant bacteria isolated from the mining area modulates growth, antioxidant system in *Brassica* under different levels of Ni. *International Biofest Conference*, 12-14 Dec. Hyderabad, **India**.
 93. **Babalola OO** and Bumunang EW (2012). Characterization of Plant Growth Promoting Rhizobacteria (PGPR) from field-grown GM and Non-GM maize. The 1st International Conference for GM Crops and Food (ICGMCF) 27-29 November. Page 45. Cairo University, **Egypt**. <http://ebookbrowse.net/characterization-of-plant-growth-promoting-rhizobacteria-pgpr-from-field-grown-gm-and-non-gm-maize-pdf-d512436145>
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96. Bumunang EW and **Babalola OO** (2012). Bacterial community profiling in the rhizosphere of field-grown GM and non-GM corn. P-305, 3rd World Congress on Biotechnology, September, 13-15, Hyderabad International Convention Centre, Hyderabad, **India**.
97. Ahmad F and **Babalola OO** (2012). Isolation and characterization of Bacillus isolates to determine their mechanisms of antagonism against *Fusarium solani* in vitro. P-114, 3rd World Congress on Biotechnology, September, 13-15, Hyderabad International Convention Centre, Hyderabad, **India**.
98. Adegboye MF and **Babalola OO** (2012). Isolation and Characterization of Rhizospheric Streptomyces with Plant Growth Promoting Potential. P-173, 3rd World Congress on Biotechnology, September 13-15, Hyderabad International Convention Centre, Hyderabad, **India**.
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101. Sobowale AA and **Babalola OO** (2011). Potential of *Trichoderma* species to persist within maize (*Zea mays*) stem long after inoculation. South African Society for Microbiology, Southern Sun Cape Sun Hotel and Conference Centre, **Cape Town**. 6th 9th November 2011. Pg 30.
102. **Babalola OO**, Bumunang EW and Akindolire AM (2011). Indigenous rhizobacteria of agricultural importance with peculiarity to selected food crops in the Mmabatho municipality of South Africa. South African Society for Microbiology, Southern Sun Cape Sun Hotel and Conference Centre, **Cape Town**. 6th 9th November 2011. Pg. 31.
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109. **Babalola OO** and Gressel J (2006). Generation of asporogenic mutants of *Alternaria cassiae* by X-ray irradiation. Poster presented at the IXth International Workshop on Radiation Damage to DNA May 13-17, Tekirova, Antalya, **Turkey**.
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111. Meir S, Amsellem Z, Al-Ahmad H, **Babalola OO**, Herschkovitz Y and Gressel J (2005). Biotechnology and the management of weedy *Orobanche*. COST Action 849. Parasitic plant management in sustainable agriculture WG1+4 workshop on means for limiting *Orobanche* propagation and dispersal in agricultural fields 4-6 December 2005, Neve-Yaar Research center, **Israel**. cost849.ba.cnr.it/Proceedings%20COST%20Workshop,%20Israel.pdf -
112. Gressel J, Al-Ahmad H, Amsellem Z, **Babalola OO** and Meir S (2005). Transgenic enhancement of biocontrol agents (S 167). Special session: Retro pathology: Disease for control of weeds. Annual meeting of the American Phytopathological Society (APS). Phytopathology 95:S126. Publication no. P-2005-0040-SSA. July 30-August 3. Austin, Texas, **USA**. meeting.apsnet.org/2005/program/pdfs/2005FullProgramBook.pdf
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the Organisation for Biological Control of Noxious Animals and Plants (IOBC), co-organized with C.I.L.B.A. 14–16 October 2002. Montpellier, **France**.

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119. **Babalola OO**, Sanni AI and Odhiambo GD (2001). Screening of three *Striga hermonthica* stimulating fluorescens bacteria for phytotoxicity in cowpea. Proceedings of the Horticulture Seminar on **Sustainable Horticultural Production in the Tropics**. 3rd 6th October 2001, Wesonga JM, Losenge T, Ndung'u CK, Ngamau K, Ombwara FK, Agong SG, Fricke A, Hau B, and Stutzel H.(eds). Department of Horticulture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja-**Kenya**. ISBN: 9966-923-03-9
120. **Babalola OO**, Odhiambo GD, and Sanni AI (2001). Study of the synergistic effects of *Pseudomonas* isolates 8mr5, 4mks8 and 10mkr7 on *Striga hermonthica*. 18th conference of the Weed Science Society of Eastern Africa (WSSEA). 29th October–2nd November 2001 Kenya Agricultural Research Institute headquarter, Kaptagat road, Loresho, **Nairobi**.
121. **Babalola OO**, Sanni AI, Emechebe AM, and Onilude AA (2000). Effect of bacterial application systems on *Striga hermonthica* infested maize (*Zea mays* l.). Page 34. Abstract of the 38th Annual Conference of Science Association of Nigerian (SAN), 10–14th Dec. 2000, Ogun State University, Ago-Iwoye, **Nigeria**. Sciencenigeria.org

(6i) Dissertation Research Projects

- 2019, MBA Dissertation: Women leadership success and roles in *Science, Technology, Engineering, and Mathematics* (STEM) in Africa. Business School, North-West University, South Africa.
- 2002, Ph.D. Thesis: Interactions between *Striga hermonthica* (Del.) Benth. and fluorescent rhizosphere bacteria of *Zea mays*, L. and *Sorghum bicolor* L. Moench for *Striga* suicidal germination In *Vigna unguiculata*. University of Ibadan, Ibadan.
<http://twas.assaf.org.za:8080/browse?type=author&value=Babalola%2C+Olubukola+Oluranti>
<http://twas.assaf.org.za:8080/bitstream/handle/123456789/38/BABALOLA.pdf?sequence=1>
- 1996, MSc Thesis: Screening for nisin producing *Lactococcus lactis* in milk and milk products. University of Ibadan, Ibadan.
- 1992, BSc (Hons) Thesis: Quality control study of some processed fruit Juices: A case study of Capri-somme products. Ogun State University, Ago-Iwoye.

7. Networking

- 1) HELM **Virtual Summit**, being held from 9-11 December 2020 and titled, ‘Leading and managing the University in Africa for disruption, complexity and change
- 2) The World Science Forum series, a joint effort of UNESCO, the International Science Council (ISC), the American Association for the Advancement of Science (AAAS), the InterAcademy Partnership (IAP), TWAS - the World Academy of Sciences and the European Academies Science Advisory Council (EASAC). Convener: the Hungarian Academy of Sciences (MTA). 20-23 November 2019. **Budapest, Hungary**
- 3) Babalola OO (2018) The 1st NWU Biennial Research and Innovation Conference. Positioning NWU for Research & Innovation Excellence, Visibility and Impact: Maximizing Success, Strengths and Opportunities. 27-29 Nov. Potchefstroom. **South Africa.**
- 4) Gender Summit 14-Africa “Climate Change through the Gender Lens: Focus n Africa” 19-20 March 2018. Marriott Hotel, **Kigali, Rwanda.** Convener: Elizabeth Pollitzer and Karen Cragga-Milne.
- 5) Gender Dimension of postgraduate engineering in South Africa: Consultative Workshop. 28 March 2017. NRF, **Pretoria.** Convener: Prof Chaya Herman.
- 6) 2nd Thünen Symposium on Soil Metagenomics, 11-13 December 2013, www.soil-metagenomics.org. **Braunschweig, Germany**
- 7) SARIMA 2011 Conference. Preparing research innovation managers for the next decade. 08-10 June, Umhlanga, **Durban, South Africa.**
- 8) Indigenous knowledge and community innovations in the biosciences and biotechnology in Southern Africa. Regional symposium, 17-19 August 2010. Kwa Maritane Lodge, **Pilanesberg, South Africa.**
- 9) BIO-08, a combined conference supported by the South African Society for Microbiology, Biotech SA and the South African Society for Biochemistry and Molecular Biology, (SASM Biotech SA – SASBMB). Jan 21-25, 2008. **Grahamstown, South Africa.**
- 10) 2nd South Africa Proteomics and Genomics Conference, University of the Western Cape. 03-05 March 2008. **Cape Town, South Africa.**

8. Research Interests

My research interests are centered on the application of molecular biology techniques to understand:

- Soil Metagenomics, Molecular plant-microbe interactions and Rhizosphere Biology
- Biofertilizer, bioherbicides, Symbiosis, Rhizosphere Microbiome and Root Endophytes

My research group's interest is to better understand plant-soil microbe interactions toward plant health management. We investigate below and above ground microbial interactions, rhizosphere metagenomics, symbiosis and aspects of plant stress tolerance. We aim to generate biofertilizers, bioherbicides and similar biocontrol products.

9. International/Academic Recognitions

(9a) Invited Talks

- 2021 February 11th. **Speaker.** OWSD Southern Africa (Botswana, Lesotho, Malawi, Mozambique, Namibia South Africa, Zambia, Zimbabwe). Uniting women and girls in science during this COVID-19 pandemic. **Virtual International Day for Women and Girls in Science celebrations**
- 2020 December 20th. **Speaker.** OWSD Mauritius. Leadership at Workplace. Virtual meeting.
- 2020 November 20th. **Speaker.** OWSD Botswana. Building a Successful STEM Career and the Importance of Networking. Zoom Webinar.
- 2020 November 19th. **Speaker.** OWSD UNILAG Nigeria. Acquiring the 21st century skills: A vital tool to inclusive green growths. Zoom Webinar.
https://drive.google.com/file/d/13ZMwbweN1jdR6d7ctmRtUYiuCumJ_M6W/view?usp=sharing
- 2020 October 27th. **Speaker.** OWSD Port Harcourt Branch. Indicators in Science Career Leverage. <https://owsd.net/resources/news-events/owsd-nigeria-national-chapter-presents-indicators-science-career-leverage>
- 2020 October 26-30th. **Speaker.** OWSD 2020 Early Career Orientation Workshop. Helping your team to succeed. Sponsored by United Nations Educational, Scientific and Cultural Organization (UNESCO). **Panelist:** How can we support each other as women scientists in the post-COVID world?
- 2020 August 11th. **Speaker.** OWSD Ghana. How to sustain your laboratory with minimal resources. Zoom Webinar.
- 2020 August 4th. **Speaker.** OWSD Kenya. Research project management.
- 2020 June 3rd. **Speaker.** The Standard Fireworks Rajaratnam College for Women (Autonomous) Affiliated to Madurai Kamaraj University, **India.** "How to stay motivated as a research scientist in the present world." **India, Google Meet Webinar.** 76 participants.
- 2020 May 28. **Speaker.** First Annual Languni Africa Day Sherehe (Celebrations). What it means to be an African scientist during COVID-19. info@languni.org.za. **South Africa, Zoom Webinar.** 36 participants.
- 2020 May 27. **Speaker.** OWSD Zimbabwe. COVID-19: Positive or negative impact to female science students. **Zimbabwe, Online Webinar.** 67 participants.
- 2019 Nov 25-29. **Panelist/Speaker/Facilitator.** OWSD Early Career Fellowship Regional Workshop, Ledger Plaza Bahari Hotel, **Dar Es Salaam, Tanzania.**
- 2019 Nov 4-6. **Panelist/Speaker/Facilitator.** Women in STEM & Leadership Positions in Higher Education Summit. Southern Sun, Waterfront, **Cape Town, South Africa.**
- 2019 May 23-24. **Session Chair** at the 4th SAJU University Forum Conference. The human being in the 21st century in the context of global changes. Future Africa Campus. The University of **Pretoria. South Africa.**
- 2018 Oct 29-Nov 1. **Panelist** UTKARSH 2018 International Conference on Carrying Capacity Approaches in Environmental management leading to Sustainable Development, CSIR-NEERI, **New Delhi, India.**

- 2018 Oct 22-26. **Speaker** OWSD, its opportunities and fellowships, Aligning African Universities to Accelerate Attainment of Africa’s Agenda 2063’. The African higher education week and sixth RUFORUM Biennial Conference, Kenyatta International Convention Center (KICC) **Nairobi, Kenya.**
- 2018 Oct 16-19. **Speaker/Facilitator.** OWSD RwandaEAIIFR Women in Science Workshop, ICTP-EAIIFR. Kigali Convention and Exhibition (KCEV) Urukali Hall, Tente. **Kigali, Rwanda.**
- 2018 Oct 2-6. **Panelist/Speaker/Facilitator.** OWSD 25th Anniversary celebrations. Publication Writing Workshop. (Topics facilitated: Structure of Scientific Journal Articles/ Contribution of Your Paper/Target Journals/Research Outcomes, Impact, Sustainability of the Project, Risk and Mitigation). **Khartoum, Sudan.**
- 2018 Sept 13-14. **Panelist** ASSAF Annual Young Scientist Conference, “Winning the Fight Against Corruption: A trans-disciplinary approach. Protea Hotel, OR Tambo, **Gauteng, South Africa.**
- 2018 Sept 5-7. **Panelist** OWSD Africa Regional Conference. Women in Science, Engineering and Technology for Sustainable Development. Female boss syndrome. ICIPE Duduville Campus, Kasarani, **Nairobi, Kenya.**
- 2018 April 11-13. **Speaker.** SAYAS Food Security & Policy Workshop. Policy direction, eradication of hunger and achievement of food security. Birchwood Hotel, Boksburg, 14 View Point Road, Boksburg, 1672 **Johannesburg, Gauteng.**
- 2018 March 23. Presentation. “How I got here: my journey as a female scientist”. ICTP-EAIIFR, UR-CST, Avenue de L’armee, **Kigali, Rwanda.**
- 2017 Nov 20-25. **Visiting Scientist**, CE3C Centre for Ecology, Evolution and Environmental Changes Faculdade de Ciências da Universidade de Lisboa, Edifício C2, Piso 5, Sala 2.5.03 Campo Grande, 1749-016 **Lisboa, Portugal.**
- 2017 July 23-Aug 3. **Plenary lecture** “From the laboratory to national development”. 3rd International Conference and Scientific Exhibition of OWSD-BIU 2017. **Benin, Nigeria.**
- 2017 Feb 21-22. **Panelist** NEPAD SANBio/ BioFISA II Annual Event “Business Meets Biosciences” (Opportunities in the nutrition sector) Birchwood Hotel and Or Tambo Conference Centre, **Boksburg, South Africa**
- 2017 Jan 7-27. **Visiting Scholar**, Department of Plant Pathology & Microbiology, Iowa State University, **Iowa, USA.**
- 2016 Aug 28-Sept 27. **Visiting research scientist** UMR CNRS 5557 Microbial Ecology of Lyon University Lyon 1, Bat. Mendel 43 Bd du 11 Novembre 1918 69622 Villeurbanne (Cedex) **-Lyon, France.**
- 2016 Jan 24-30. **Visiting Scientist**, CE3C Centre for Ecology, Evolution and Environmental Changes Faculdade de Ciências da Universidade de Lisboa, Edifício C2, Piso 5, Sala 2.5.03 Campo Grande, 1749-016 **Lisboa, Portugal.**
- 2016 Jan 5-Feb 4. **Visiting research scientist** UMR CNRS 5557 Microbial Ecology of Lyon University Lyon 1, Bat. Mendel 43 Bd du 11 Novembre 1918 69622 Villeurbanne (Cedex) **-Lyon, France.**
- 2015 Oct 7-21. **Visiting Scholar**, Department of Plant Pathology & Microbiology, Iowa State University, **Iowa, USA.**
- 2015 April 28-30. **Panelist.** Knowledge Exchange Forum: Important early career milestones and support. Gender Summit 5 Africa. **Cape Town, South Africa.**

- 2014 Oct 21-Nov. **Guest lecturer/Visiting research scientist.** UMR CNRS 5557 Microbial Ecology of Lyon University Lyon 1, Bat. Mendel 43 Bd du 11 Novembre 1918 69622 Villeurbanne (Cedex) – **France.**
- 2014 Aug 18-22. **Session Chair.** The Organisation for Women in Science for the Developing World (OWSD) Fellowship Holders Regional Workshop on Scientific Writing and Science Communication. CSIR International Convention Centre (ICC), **Pretoria, South Africa.**
- 2013 July 15-18. **Speaker and Session Chair.** 6th Annual International Symposium on Agriculture, Athens Institute for Education and Research, **Athens, Greece.**
- 2013 June 19-July 14. **Visiting scientist,** National and Kapodistrian University of Athens, School of Sciences, Faculty of Biology, Department of Genetics and Biotechnology, **Athens, Greece.**
- 2012 Sept. 13-15. **Speaker and Session Chair:** 3rd World Congress on Biotechnology, Hyderabad International Convention Centre, Hyderabad, **India.**
- 2010 May. **Invited speaker.** Talk: Exploitation of microbes. South Africa’s celebration of the international year of biodiversity (by UNESCO, DST, NRF and SAASTA), Cooke’s lake, Mafikeng, North West province, **South Africa.**
- 2008 Feb. **Invited speaker.** Effective studying and note-taking technique, University of Stellenbosch, Stellenbosch, **South Africa.**
- 2007 Feb. **Visiting research scientist.** Talk: , Japan Atomic Energy Agency, Tokai-Mura, **Japan.**

(9b) Professional Avocation/Responsibilities/Volunteers

- ✓ 2021-2022: TWAS Membership Advisory Committee (MAC) in Biological Systems and Organisms
- ✓ 2021: Mentor- Academic Development Mentoring Programme. North-West University, South Africa
- ✓ 2020: Membership Advisory Committee. South African Young Academy of Science (SAYAS).
- ✓ 2020, 2021: Membership Advisory Committee for Health/Medical Sciences, Life Sciences and Agricultural Sciences (MAC 3). Academy of Science of South Africa (ASSAF).
- ✓ 2016 May-present. Vice President (Africa region): The Organisation for Women in Science for the Developing World (OWSD). Board meetings: Dec 2016 South Africa; Dec 2017 South Africa; Nov 2018 India; Oct 2019 China.
- ✓ 2013-present. Member NRF Advisory panel for Agricultural Sciences (Thuthuka funding program).
- ✓ 2013-present. Member NRF Advisory panel for Microbiology and Biochemistry (CPRR & CSUR funding program).
- ✓ 2011-present. Member review panels, Advisory sub-committee **GMO** act South Africa.

(9c) Manuscript Reviews Responsibilities

Journal of Basic Microbiology	2016 to date
Brazilian Journal of Microbiology	2013 to date
Acta Physiologiae Plantarum	2013 to date
Polar Biology (Canada)	2013 to date

Applied Soil Ecology (USA)	2011 to date
Annals of Microbiology (Springer, USA)	2011 to date

(9d) Associate Editor Responsibilities

BMC Microbiology (Elsevier)	2020 to date
Biochemistry and Biophysics Reports (Elsevier)	2020 to date

(9e) External Assessor/Examiner (funding and student thesis evaluation)

1. **PhD** (Microbiology) University of KwaZulu-Natal. Biodegradation of pentachlorophenol by *Bacillus tropicus* isolated from activated sludge of a wastewater treatment plant in Durban South Africa (Aregbesola OA) 2021
2. **MSc** (Food Science and Technology) Durban University of Technology. Antimicrobial efficacy of nisin, oregano and ultrasound treatments against foodborne pathogens in ready-to-eat vegetables (Takundwa BA 21854649) 2021
3. **MSc** (Horticultural Science) Cape Peninsula University of Technology. The effect of the entomopathogenic fungus *Beauveria bassiana* on the growth, physiological responses and control of aphid, *Myzus persicae* infestation on *Lactuca sativa*. Neo Macuphe 213126214. 2021.
4. **PhD** (Botany) Department of Botany, GC University, Lahore, Pakistan. Isolation, characterization and screening of ectomycorrhizae associated bacterial communities of some conifers. (Khanaspur KP) 2021.
5. **PhD** (Biotechnology) Periyar University, Taminadu, India. Enhanced production of Aervine and Methyiaervine from *Aerva lanata* (L.) Juss. Ex Schult by using elicitors and evaluate their biological activities. (S. Boobalan) 2020.
6. Expert Reviewer: **National Science Centre Poland**. Importance of the microbiome and metavirione of rhizosphere of ruderal plants in remediation of soils heavily degraded and long term polluted with oil - a new approach in explaining mechanisms of plant adaptation to contamination conditions.
7. Expert Reviewer: grant proposal submitted to **Czech Science Foundation**. Czech Republic. *It's about the secret(e)! Interrelation between the root secretion and colonization by plant growth-promoting bacteria*. Sept 2020.
8. 2020 **SAYAS New Member Selection Committee** to the South African Young Academy of Science
9. **MSc** (Biochemistry & Microbiology), Rhodes University. Alternative approach to controlling citrus black spot disease. Thabede JT 2020.
10. **OWSD PhD selection committee**, reviewer for OWSD Phd and early career programmes. 2020
11. **OWSD early career selection committee**, reviewer for OWSD Phd and early career programmes. 2020

12. **National review of Doctoral degrees.** Council on Higher Education (CHE) Peer reviewer for the CRANEFIELDS College. 13 July 2020 - 31 March 2021.
13. **MTech**, Cape Peninsula University of Technology. Effect of the entomopathogenic fungus *Beauveria bassiana* on growth, physiological responses and control of aphid (*Aphis craccivora*) infestation on *Phaseolus vulgaris* and *Vigna unguiculata*. 2020
14. **PhD** (Microbiology), Vellore Institute of Technology (VIT) University, Vellore, India. Antibiofilm properties of crude and active flavone from *Alstonia scholaris* leaves blended with collagen material from *Scomberomorus lineolatus* against *Pseudomonas aeruginosa*. (Ms Abinaya M) 2020.
15. **MSc** (Biomedical Technology) Cape Peninsula University of Technology. A molecular-based analysis of the antibiotic biosynthetic potential of selected marine Micromonosporaceae species. 2020 (Brighton Mutepe 210227435).
16. **MSc** (Microbiology) University of Pretoria, South Africa. The influence of temperature on bacterial communities in arid soil microbiomes. 2019 (Ms MR Baluka).
17. **Israeli Ministry of Agriculture & Rural Dev:** Evaluation of Mada'nit research proposal. Development of a growth-promoting product from extract of the fungus *Pseudozyma aphidis*. 2019 Dr Maggie Levy 12-02-0043
18. **PhD** (Microbiology), "Utilization of Banana Pseudo-Stem for Production of Cellulolytic Enzymes and Bioethanol" 2019 (Mr LM Legodi, 9731824). University of Limpopo, South Africa.
19. **PhD** (Microbiology), Vellore Institute of Technology (VIT) University, Vellore, India. Isolation and characterization of bioactive metabolites from endophytic fungi of medicinal plants and their pharmacological potentials. (Miss S. Shoba) 2019.
20. **Biotechnology and Biological Sciences Research Council (BBSRC) UK:** Assessment of research proposal for BBSRC, UK. 2019 (Funder references: BB/T002336/1; BB/T010789/1)
21. **MSc** (Biotechnology) Rhodes University, South Africa. Biological properties and interactions of *Kalaharituber pfeilii*. (Ms V Krele g15k7469) 2018.
22. **PhD** (Microbiology) University of Kwazulu-Natal, South Africa. Suppression of Phytophthora blight of pepper by biochar amendment associates to improved soil microbial properties. (Mr Guangfei Wang, 215082476) 2018.
23. **Associate Professor** Promotion assessment: Federal University of Agriculture, Abeokuta, Nigeria, (Dr Saka Adebayo BALOGUN) 2018.
24. **PhD** (Biotechnology) Shri Mata Vaishno Devi University, Kakryal, India. Mining Metagenomes for Bioactive Molecules (Mr. Vishnu Kumar Gupta) 2018.
25. **MSc** (Biotechnology) University of the Western Cape. Discovery of biomolecules from South African marine sponge symbionts through Metagenomic studies (Miss Matlakala Reginah Mapatha) 2018.
26. **MSc** University of Pretoria, South Africa. Distribution and diversity of rhizobial populations associated with *Acacia dealbata* in South Africa. 2018 (Mr P Mutseka Lunga).
27. **MSc** (Microbiology), University of the Western Cape. Using biochemical and nutrient analysis to understand the role of methylglyoxal signaling in soybean exposed to zirconium stress (Miss. Linda Ndlovu) 2018.
28. **NRF:** Assessment of research proposal for the National Research Foundation 2017 (1 candidate).

29. **PhD** Addis Ababa University, Ethiopia. “Genetic and functional diversity of Rhizobia and Rhizobacteria from Soybean: Implication for the commercial production and application to enhance soybean production under low input agriculture in Ethiopia” Viva voce June 2017. (Diriba Temesgen Dagaga).
30. **PhD** Addis Ababa University, Ethiopia. “Genetic, symbiotic and plant growth-promoting properties of cowpea [*Vigna unguiculata* (L.) Walp.] root nodule bacteria from Ethiopia Viva-voce June 2017 (Girmaye Kenasa Rundasa).
31. **PhD** The Karunya University, Karunya Nagar, India. “Bacteriophage as microbial tracers and bio disinfectants in water sources”
32. **PhD** The University of Mauritius, Mauritius. “Validation of the Biological Properties and Phylogeny of Aloes Endemic to the Mascarene Islands” 2017. (Ms D. Lobine).
33. **MPhil** The University of Mauritius, Mauritius. “Molecular and Bioactive profiling of selected endemic plants from the Republic of Mauritius towards unveiling their Pharmacological properties” 2017. (Ms Shahin Kauroo).
34. **PhD** (Microbiology), Bharathidasan University, Tamilnadu, India. “Desert Actinobacteria: Isolation, characterization and pharmacological potentials of bioactive compounds” 2017. (Mrs. K. Nithya)
35. **PhD** (Microbiology), Bharathidasan University, Tamilnadu, India. “Isolation and characterization of chitinase producing actinobacteria from Muthupet mangrove soil, south India” 2017. (Ms. G. Vajjayanthi)
36. **MSc** (Biochemistry) University of Zululand, 2017. Intestinal absorption metabolism of bush tea major phenolic compounds exhibiting anti-diabetic activity” (Ms Yonela Ntamo 201159667).
37. **PhD (Environmental Sci) University of South Africa, 2017.** “Enzyme production and activities of ligninolytic fungi cultivated on agricultural residues” (Ms Grace N Ijoma, 51787717).
38. **MSc** (Environmental Science), Rhodes University Assessing the potential role of microorganisms in the restoration of degraded thicket environment in Albany Thicket, South Africa. 2017. (Ms. Nelisa Mpama).
39. **PhD** (Microbiology), University of Fort Hare 2016. Chlorine disinfectant tolerance of microbial pathogens isolated from the final effluents of some wastewater treatment plants in the Eastern Cape, South Africa. (Mojisola Christiana Owoseni: 201409014)
40. **MSc** (Environmental Sci) University of South Africa, 2016. “The use of freshwater diatoms as bioindicators for determination of the trophic status of the Swartspruit River”. 2016. (Ms Nnabuo-Eguzozie EC 50460463).
41. **MTech** 2016 Tshwane University of Technology, South Africa. Plant growth-promoting rhizobacteria (Supervisor Dr Ahmed Hassen).
42. **PhD** (Biotechnology), Karunya University, Tamil Nadu, India. “Production and Characterization of Bacterial Laccase and their application in decolorization of synthetic and textile effluents”. 2016 (Supervisor: Dr Sevanan Murugan Tel [9842053851](tel:9842053851), micromurugans@gmail.com)
43. **Professorial external assessor: 2016:** The Federal University of Technology, Akure, Nigeria.

44. **External examiner/moderator** (Microbiology), University of Limpopo, Turfloop campus. **2016, 2017, 2018, 2019**. SMIB 032, SCIN 082, SBTC 082, SMOL 081, SBTB 031, SMIC 080, BIOC 302, SANL 081, SBIC 080.
45. **MSc** (Microbiology), Rhodes University, South Africa. June **2015** (Miss Aviwe Fulmaka, g13F7779). Title: Investigating soil microbial interactions of *Portulacaria afra*.
46. **External reviewer**, Appointments and Promotions Committee, Faculty of Science, University of Fort Hare (2015)
47. **PhD** (Microbiology), VIT University, Vellore, India. Genetic Polymorphic Studies in *Heteropneustes fossilis* and *Clarias gariepinus* using Microsatellite Markers” **2015**.
48. **PhD** (Microbiology), Bharathidasan University, Tiruchirappalli, Tamil Nadu, India. **2015**. (Mr. K Rajesh).
49. **MSc** (Microbiology), University of Fort Hare. March **2015** (Ncedo Ntozonke, 200909172)
50. **MSc** (Microbiology), University of Fort Hare. Feb **2015** (Ms Busisiwe Makapela, 200906220)
51. **MSc** (Microbiology), University of Fort Hare. Jan **2015** (Ms Chinwe Juliana Iwu)
52. **PhD** (Nanotechnology), Anna University, Chennai, India, **2015** (Mr S. Satheeskumar). Title: “Synthesis, characterization and application of ZnMgAlO nanomaterial”.
53. Post-harvest Innovation Programme **2014**
54. **PhD** (Microbiology), Ms. Shafaq Rasool, School of Biotechnology, Shri Mata Vaishno Devi University, Katra, J&K, India.
55. **MSc** (Microbiology), University of Fort Hare. June **2014** (Ms Nozuko Zukiswa Seti)
56. **MSc** (Microbiology), University of Fort Hare. June **2014** (Ms Andiswa Unathi Badela)
57. **PhD** (Microbiology), Bharathidasan University, Tiruchirappalli, Tamil Nadu, India, **2014** (Mrs. P. Priyadharsini). Title: “Diversity, Characterization and Bioherbicidal potential of terrestrial Actinobacteria against the selected weeds”
58. **PhD** (Environmental Science), University of Pune, Ganeshkhind, Pune-4111007, India, **2014** (Aparna B. Gunjal). Title: “A Technology for Developing Soil Conditioner through Microbial Enrichment of Agro-Industry By-Products”
59. **PhD** (Microbiology), North-West University, Potchefstroom campus, **2013** (Mrs SG Mulamattathil), Student No: 11284404).
60. **MSc** (Microbiology), University of Limpopo, Turfloop campus. **2013** (Ms. K Mokatse 200626704), Title: "Production, Characterization and Evaluation of Fungal Cellulases for Effective Digestion of Cellulose"
61. **PhD** student thesis evaluation, Bharathiyar University, Coimbatore, Tamilnadu, India, **2013**
62. **PhD** (Environmental Science), University of Pune, Ganeshkhind, Pune-4111007, India, **2012** (Mrs. Nita Bhagwan Patil)
63. **NRF** Five Year Review of DST/NRF South African Research Chairs Initiative (SARChI) grant holder review assessment, **2013** (1 candidate)
64. **NRF** Thuthuka applications review panel **2013**
65. **NRF** research funding (proposals) applications **2011**(4 candidates), **2012**(1 candidate), **2013**(1 candidate), **2014** (Blue skies, 2 candidates)
66. **PhD** (Environmental Science), North-West University, Potchefstroom Campus, **2012**(1 candidate)

67. **MSc** (Microbiology), University of Fort Hare. Jan 2012 (Mr. SS Gusha)
68. **MSc** (Biochemistry), University of Fort Hare. Feb. 2012 (Mr. Fredrick Matongo)
69. **MSc** (Biochemistry and Microbiology), University of Fort Hare. 2010 (Zimasa N Cwala), 2011
70. **MSc** (Microbiology), University of Limpopo, Turfloop campus. 2011 (Ms. R Maribeng, Student No: 200402212, Title: Screening, isolation and characterization of lectins from mushrooms indigenous to Southern Africa)
71. **MSc** (Environmental Science), North-West University, Potchefstroom campus, 2011 (Ms. SL Ferreira, Student No: 13036912)

(9f) External Moderation of Examination Script

72. **External moderator:** SCIN 082. University of Limpopo, South Africa, 2019-present
73. **External moderator:** Methods in Microbial Ecology MCBE 3724. Dept of Microbial, Biochemical and Food Biotechnology. The University of the Free State. Bloemfontein Campus.
74. **External examiner/moderator:** Biochemistry and Microbiology undergraduate modules (MIC 312 June, July; MIC 511, 512 degree exam; MIC 311 June, degree exam; MIC 311 July, supplementary, Nov 2013, Jan 2014), University of Fort Hare, South Africa. 2012 to date
75. Biochemistry and Microbiology (Degree and Supplementary, MIC 311; Honours, MIC 511, 512, and 504/514), University of Fort Hare, South Africa. 2011

(9g) Honors, Prizes, and Awards

1. Established Researcher, National Research Foundation (**NRF**) **Rating**, (South Africa) Jan. 2021-2027: C2.
2. Mentioned in the Stanford list of the World's top 2% influential scholars for 2019
3. 2020: Research Award - Exceptional contribution in terms of research and development in the Faculty of Natural and Agricultural Sciences, North-West University.
4. 2020: Finalist https://www.dropbox.com/s/cs5p6z60kmmzgnl/GenderInsite_HD_2020.mp4?dl=0
5. 2020: National Research Foundation, South Africa Rhizobacteria exploitation as biofertilizer to reduce droughts stresses on maize production ¼ of a million ZAR.
6. 2019: FNAS Mahikeng campus staff acknowledgment function 2019, Exceptional contribution in terms of research and development in the Niche area for Food Safety and Security.
7. Established Researcher, National Research Foundation (**NRF**) **Rating**, (South Africa) Jan. 2012-2017: C3. Reapplied: Dec 2019
8. 2018: Faculty award, Nov. 2018: In recognition of Work in Empowering Women in Science, **Vice President of OWSD**, Africa region.
9. 2016: **Rector's Award** 2016: In recognition of International Leadership in Science as the Vice President of OWSD, Africa region.
10. 2016: UK - South Africa Researcher Links Mobility 2016 UK160215158213; Grant No 104050, R30,000

11. 2016: SA-Romania bilateral. Study of *Zea mays* and *Vigna unguiculata* rhizosphere diversity – premises for potential applications in bioeconomy (Ref: RJCT14050166741, UID: 104015), 2016/2017-2017/2018, **R250,000**
12. 2016: Fellow: African Scientific Institute (ASI) 2016 (www.asi-org.net)
13. 2015: Fellow: Africa Science Leadership Program (ASLP) Awarded by the Global Young Academy in Collaboration with the University of Pretoria, South Africa 2015 to date
14. 2014: Most productive female researcher, North-West University, FAST, Mafikeng Campus, North-West University 2014.
15. 2014: Most productive NRF rated researcher Mafikeng Campus, North-West University 2014.
16. 2013: South Africa /**Argentina** Joint Science and Technology Research “Prospection, identification and characterization of cellulases coding gene for obtaining bioethanol” (Aug 2013) UID: 91990. **R450, 000.**
17. 2013: Indigenous Knowledge Systems Call 2013 (IKS12102214311) UID86625 July 2013 June 2014. “Studies on the resident root-nodule bacteria from landraces of *Vigna subterranean* (Bambara groundnut). **R500,000**
18. Knowledge Interchange and Collaboration (**KIC**) funding, UID: 83109, 2013 (R35, 000), UID: 98460, 2015 (R25, 000), UID: 105248, 2016 (R50, 000), UID: 110133, 2017 (R100, 000), UID: 119948, 2019 (R30, 000).
19. 2012: Online Distance Learning, University of Bradford, UK, Applied Dual-Use Biosecurity Training Course Bursary, United States Department of State, Bioengagement Program (£1,860 Sterling) 2012.
20. 2011: North-West University, Faculty (of Agric, Sci. & Tech) **Travel grant.** (R28, 000) for an international meeting, Sept. 2011, Italy.
21. 2010: North-West University, Faculty (of Agric, Sci. & Tech) **Travel grant.** (R21, 000) for an international conference, Nov. 2010, Egypt.
22. 2010: National Research Foundation, **financial support** UID73792 (R15, 000) to attend ICGEB-Biosafety Workshop, Sept 2010, Italy.
23. 2010: North-West University, Faculty (of Agric, Sci. & Tech) **Research grant**, April 2010. Microbial diversity of Mmabatho municipality (R30, 000).
24. 2008: Award of Olabisi Onabanjo University Senate Research grant (OOU/SRG/07/5) (N200, 000).
25. 2008: University of the Western Cape, NRF/UWC block grant for overseas conferences, May 11-15, 2008 Banff, Alberta, Canada
26. 2006: Network of Centers of Scientific Excellence, UNCTAD Advanced laboratory training in Biotechnology and Molecular biology, University of Cape Town, South Africa. October 16 2006 – January 16 2007.
27. 2006: DBT-TWAS (2006, 12 months) Postdoctoral fellowship Award, Centre for Biotechnology Jawaharlal Nehru University, New Delhi (Prof Uttam Pati). Gratefully declined
28. 2006: Junior Investigator Award. National Institute of Standards and Technology (NIST, USA), (covers the registration fee, accommodation expenses, meals and drinks, and the Airport-Hotel-Airport transfers) to participate in *the IX International Workshop on Radiation Damage to DNA* held on May 13-17, 2006 in Tekirova, Antalya, Turkey.

29. 2005: International Atomic Energy Agency (IAEA) Fellowship, for training in Plant Breeding and Genetics, administered by Weizmann Institute of Science (WIS) from September 2005 - February 2006.
30. 2005: Beahrs Environmental Leadership Program, University of California at Berkeley. Partial scholarship, 22 June 16 July 2005, for training in Sustainable Environmental Management. Funded by the David and Lucile Packard Foundation.
31. 2004: Postdoctoral Fellowship: Feinberg Graduate School, Weizmann Institute of Science (WIS), Israel July 2004 - August 2005.
32. 2002: Travel aid (for a conference in Paris): International Centre of Insect Physiology and Ecology (ICIPE) October 2002.
33. 2001: Young Scientist Travel Award (for a conference in South Africa): International Union of Biochemistry and Molecular Biology (IUBMB). November 2001.
34. 2001: Doctoral fellowship: Third World Organization for Women in Science (TWOWS, now OWSD). Trieste Italy January 2001 - 31st December 2001, 14th May 2002 - 14th November 2002.
35. 1998: Visiting Research Fellowship: International Institute of Tropical Agriculture (IITA), Training Program. July 1998 to December 2000
36. 1992: Ogun State Governor, Nigeria, a once-off bursary for BSc (Hons).

10. Membership of Professional Association

- 2020 to date. Elected Member, The World Academy of Sciences (TWAS) for the advancement of science in developing countries.
- 2019 to date. Elected Member, Academy of Sciences of South Africa (MASSAF)
- 2019 to date. Premium Member (200120428), American Society for Microbiology (ASM)
- 2019 to date. Member and Certified Instructor, The Carpentries.
- 2019 to date. Member, International Society of Root Research (ISRR), ID 760.
- 2017 to date. Member, Society for Applied Microbiology (SFAM)
- 2011 to date. Member, Southern African Research and Innovative Management Association (SARIMA)
- 2010 to date. Member, South African Council for Natural Scientific professions (SACNASP: 400260/10)
- 2010 to date. Member, South African Association of Women Graduates (SAAWG)
- 2010 to date. Member, Royal Society of South Africa (RSSA)
- 2010 to date. Member, South African Society for Microbiology (SASM)
- 2010 to date. Member, South African Women in Science and Engineering (SAWISE)
- 2007 to date. Member, South African Society for Biochemistry and Molecular Biology (SASBMB)
- 2000 to date. Vice President (2016 to date), Org. of Women Scientists for the Developing World (formerly, TWOWS; now OWSD, ID 3591)
- Member, The Science Advisory Board (SAB)

- Member, International Society for biosafety research (**ISBR**)

11. Community Engagements

- 2016 - to date. Org. for Women in Science for the Developing World (formerly, TWOWS; now OWSD).
- 2016 - to date. On a weekly basis, I mentor children in Moshawane village.
- 2016 - 2017. A program (Bio4LIFE) was developed for the rural areas concerning the importance of careful use of chemical fertilizers.
- 2012 - 2016. Biotechnology enlightenment projects for the community by students in the Microbial Ecology course were organized annually.

12. Skills/Strength/Competency

- **Good leadership skills:** Many have testified to my high emotional intelligence. I am a role model amongst offspring from my parents. I led the Department of Biological Sciences successfully in my tenure. I resolved conflict amicably. I am actively leading a group of upcoming scientists in Microbial Biotechnology. The team comprises of Hons, MSc, PhD students and postdoctoral fellows. I handled the Quality Control committee for my Faculty in a time-saving manner. I lead Women Scientists in Africa region and I remain the first point of contact second only to the International President, an Emeritus Professor. I single-handedly establish a church in the village of Moshawane with the help of the Holy Spirit and I pastor the same with humility leading people out of darkness into the marvelous light made available through the crucifixion of Christ years back.
- **Excellent background in Biology:** Besides my BSc (Hons), Msc and PhD in Microbiology, I demonstrated a good background in the design and layout of all my experiments (laboratory, greenhouse and field) techniques, enzyme activity assay methods, microbial ecology of bacterial-plant/fungal-plant relationships, isolation and identification of microbes (Microbial techniques). Evidently, I have two international postdoctoral exposures in Biotechnology.
- I identified research problems, developed, analyzed and executed the proposals
- **Statistical analyzes:** I disseminated significant findings using SAS for Windows and JMP4, R programming.
- **Computer knowledge:** I handled Word Processing, PowerPoint presentations, Excel spreadsheet, Cricket Graph, Endnote and Reference Manager, UNIX, and other operating systems. I am Conversant with workflow system (**Oracle**) and I used advance **eFUNDI:** to communicate with students, deposit teaching material, conduct assessment, and make announcements.
- **Current molecular biology techniques:** I managed a team of upcoming scientists in my research team on DNA extraction methods (genomic DNA, plasmid), Next-generation Sequencing, RNA extraction

methods (bacteria, fungi), RAPD, PCR (RT-PCR, Nested PCR, Quantitative real-time PCR, touchdown PCR, colony PCR), T-RFLP, AFLP, RFLP, ARDRA, DGGE, RNAi, Western blot, Southern blots, dot blots, DNA electrophoresis, protein electrophoresis (SDS polyacrylamide gel electrophoresis), principle of gene manipulation, construction and screening of a plasmid genomic (and metagenomics) DNA libraries, cloning (competence cell, transformation, enzymatic digest), sequence analysis, protein purification, Tissue culture techniques and Next-generation Sequencing.

- **Strong communication skills and good written skills:** This is evident in my prolific publication style. 2010 (5 single-authored journal articles); 2011 (9 journal articles); 2012 (14 journal articles). To this end, I directed every student that passes under my mentorship to write and publish their research findings.
- **Interdisciplinary teams, and multicultural settings capacity:** I served in Nigeria (many years), Kenya (2 years), Israel (2 years), South Africa (>13 years), besides my other scientific endeavors in Africa, Asia, Europe, North America, and South America. I partnered with international scientists in my field:
- **Working knowledge of bioinformatics:** I implemented my routine research work in association with R programming, NCBI, Pubmed, Oligo (primer design), CLUSTALW, CLUSTALX, Blast, Multalign, DNAMAN, MEGA10, Internet information retrieval, Phylowin, TNT, BioEdit, PHYLIP, MP, MAFFT. I attended bioinformatics workshops to keep abreast of the latest developments in the field.
- **I am conversant with LINUX, Shell, Bash scripting, Python, Git Github, KBase**
- **I use the following as teaching aid:** Voki, Vocaroo

13. Collaborators

Collaborator	Institution	Nature/Extent of partnership
National		
Dr Santosh Ramchuran	The Council for Scientific and Industrial Research (CSIR) in South Africa .	Research
Prof Jude JO Odhiambo	Department of Plant Production, University of Venda, Private Bag x5050, Thohoyandou 0950, South Africa	Implementation of joint research projects
Prof Funso Kutu	School of Agricultural Sciences, University of Mpumalanga, South Africa	Implementation of joint research projects; Student exchange
Dr Ahmed Hassen	Agricultural Research Council, Plant Health and Protection (ARC-PHP). P. bag X134, Queenswood 0121, Pretoria, South Africa	Research

International		
Dr Mesfin Tafesse Gameda	Addis Ababa Science and Technology University. Ethiopia	Research, Joint supervision
Dr Katherine M. Pappas	National and Kapodistrian University of Athens, School of Sciences, Faculty of Biology, Department of Genetics and Biotechnology, Athens, Greece	Research
Dr Claire Prigent Combaret	UMR CNRS 5557 Microbial Ecology of Lyon. University Lyon 1, Bat. Mendel, 43 Bd du 11 Novembre 1918, 69622 Villeurbanne (cedex) France	Implementation of joint research projects, book chapter; student exchange
Prof Carole Beaulieu	Faculté des sciences - Université de Sherbrooke Canada	Research visit
Prof Bernard R. Glick	Department of Biology, University of Waterloo, Canada	Publications, Mentoring
Dr Paola Monica Talia	Instituto de Biotecnología CICVyA, CNIA INTA Castelar. Los Reseros y Las cabañas s/n Hurlingham. Argentina	Implementation of joint research projects; Student exchange
Dr Dhanasekaran Dharumadurai	Department of Microbiology Bharathidasan University, Tiruchirappalli - 620024. Tamil Nadu, India	Publication, expert committee member, reviewers, evaluation
Prof Gwyn A. Beattie/Prof Larry Halverson	Department of Plant Pathology & Microbiology, Iowa State University, Iowa, USA	Research visit
Dr Stefan Marius	“Alexandru Ioan Cuza” University, Faculty of Biology, B-dul. Carol I, nr. 20 A, 700506, Iasi, Romania	Implementation of joint research projects, research visits, student exchange
Dr Sunday Ekesi	The International Centre of Insect Physiology and Ecology (ICIPE), Nairobi, Kenya .	Research student cosupervision
Prof Cristina Cruz	CE3C Centre for Ecology, Evolution and Environmental Changes, Faculdade de Ciências da Universidade de Lisboa, Edifício C2, Piso 5, Sala 2.5.03, Campo Grande, 1749-016 Lisboa, Portugal	Research visit; joint publications
Dr Claarisse Brigido	Mediterranean Institute for Agriculture, Environment and Development Soil Microbiology lab Universidade de Évora Pólo da Mitra, Apartado 94, 7006-554 Évora, Portugal	

Dr Carlos M. Rodriguez Lopez	Environmental Epigenetics and Genetics Group (EEGG), Department of Horticulture, College of Agriculture Food and Environment, University of Kentucky.	Research student cosupervision
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14. Personal Interests

Traveling: I enjoy traveling to fascinating sights and coin collecting

Cuisine: Especially with friends around to try new dishes

Photography: Capturing memories to be, and all that I fancy

Mentoring: In my free time, I mentor children in my local community and postgraduate students across Africa.

15. Referees

<p>Prof Eucharía Unoma Kenya Deputy Vice-Chancellor, Planning Administration & Finance University of Embu P.O. Box 76662 00508, Yaya Towers; Nairobi, Kenya. Tel: +254 722 721 435 Email: kenya.eucharía@embuni.ac.ke</p>	<p>Prof Ibiyinka Agboola Fuwape Vice-Chancellor, Michael and Cecilia Ibru University. Ibru Village, Agbarha-Otor, Ughelli North, Delta State, Nigeria. Tel: +2348138663405 Email: fuwapeibiyinka@mmciu.edu.ng ; vc@mciu.edu.ng</p>
<p>Prof Esther Titilayo Akinlabi Director of the Pan African University for Life and Earth Sciences Ibadan (PAULESI), Ibadan, Nigeria. Tel: +2348080430067 Email: AkinlabiE@africa-union.org</p>	<p>Prof Esi Awuah Department of Civil Engineering KNUST, Kumasi. Ghana Tel: +233207417766 Email: mailto:eawuah.coe@knust.edu.gh ; mailto:eaiawuahrt@gmail.com</p>
<p>Prof Helen Drummond Deputy Dean, Faculty of Science North-West University, South Africa Tel: +27183892317 Email: helen.drummond@nwu.ac.za</p>	<p>Prof Virna Leaner University of Cape Town Observatory 7925 South Africa. Tel: +27 21 406 6250 (Office) +27 21 406 6266 (Lab) Fax: +27 21 406 6061 Email: virna.leaner@uct.ac.za</p>

16. Post Graduate Students (for the period at NWU)

Prior to joining NWU: Graduated 47 Hons

At NWU: 41 Hons, 20 Msc, and 21 PhD

(16a) BSc (Hons) research projects students graduated

Student
Marco Mndebele (23146842)
Mogakolodi Theko (23126663)
Thuto Mohadi (24821039)
Monde Wakung'oli (25238124)
Nomathemba Makhapela (27924505)
Stephanie Cromwell (24098299)
Tshegofatso Ntwe (28344413)
Olebogeng Basekiseng (Mr) (24776874)
Lengone Kitso (Mr) 26014173
Tsholofelo Mothupi (Miss) 25594907
Rebaona Reabaka Molefe (Miss) 25311107
Keabetswe Chriscellida Ramadile (Miss) 25235117
Lethabo Gaebee (Mr) 25620169
Keatletse Monmanyana 24527815
Queen Letlakana (253161920)
Ditshipi Peter Taukobong (24823546)
Julius Leumo Kgosiemang (24582204)
Sunday Babatunde Oloye (28266153)
Onkemetse Mosetlhe (23789700)
Chukwuneme Chinenyenwa Fortune (25540122)
Serumula Ketshepile Beverly (23251905)
Frankel Thabiso (23264748)
Motete Tshoganyetso (23145889)
Mokgakane Lindiwe (23129840)
Mongadi Khomotso (21407398)
Adem Mohomud (21888205)
Rorisang Wendy Mmeno (21986762)
Thebe Tumelo (22615865)
Kupi Tshegofatso (21508690)
Gae Neo A (21981183)
Motsewabangwe KR (21472807)
Motlagomang Khantsi (16162749)
Esau Boipelo (21910040)
Mogatianyane Keneilwe (21449090)
Akindolire Muiyiwa Ajoke (22826424)
Kodisang Seiphopo Lena (23409525)

Mokone Peter Ho (18035302)
Ndeddy Aka Robison (18022200)
Sebogodi Keletso M (17099587)
Bumunang Emmanuel M (22048219)
Madyibi Lorato M (18037852)

(16b) Masters' dissertations students (20 MSc completed)

Student name (number)
Lengone Kitso (Mr) 26014173
Rebaona Reabaka Molefe (25311107)
Mokgakane Lindiwe (23129840)
Lethabo Gaebee (Mr) 25620169
Abisola Regina Sholeye (31415695)
Rorisang Mmushi (29886147)
Chukwuneme Chinenyenwa Fortune (25540122)
Mongadi Khomotso (21407398)
Olalekan Ayodele Adedayo (27048187)
Oluwadara Pelumi Alamu (26689189)
Oluseyi Samuel Olanrewaju (26704005)
Motsewabangwe K. Raven (21472807)
Motlagomang Khantsi (16162749)
Ndeddy Aka Robison (18022200)
Ajoke M Akindolire (22826424)
Modise Lorato M (18037852)
Ajilogba Caroline F (23703563)
Kedibone Masenya (23405805)
Sebogodi Keletso M (17099587)
Bumunang Emmanuel M (22048219)

(16c) PhD theses students (21 PhDs completed)

Student name (number)
Olanrewaju Oluwaseyi Samuel (26704005)
Ayilara Modupe Stella (31573460)
Adedeji A. Atilade (31686346)
Alawiye Temitayo Tosin (31362834)
Mamphogoro Tshifhiwa Paris (26307189)
Enebe Matthew Chekwube (31480470)
Odelade Kehinde Abraham (31572308)

Enagbonma Ben Jesuorsemwon (30775450)
Ambele Felicitas Chaba (28480694)
Masowa Manare Maxson (27221334)
Ayangbenro Ayansina Segun (28072693)
Adegboyega Taofeek Temitope (27039773)
Igiehon Ozede Nicholas (28516729)
Adenike Eunice Amoo (27374564)
Adeniji Adetomiwa Ayodele (26352842)
Ajilogba Caroline F (23703563)
Fashola M Omotola (24804460)
Esuola Catherine Oluwakemi (24054887)
Egbuta Mary Augustina (23703563)
Aremu Rhoda Bukola (23925523)
Adegboye Mobolaji Felicia (23229926)

(16d) Incoming exchange students hosted and the source of funds

Duration	Fellow	Institute/Country of origin	Source of funds
2019	Noha ahmed Abd Alfadil	AlNeelain University, Sudan	AlNeelain University
Sept 2017-Dec 2017	Ugbo, Emmanuel Nnabuike	Nnamdi Azikiwe University, Awka Anambra State/ Ebonyi State University, Abakaliki	TETFund
9 months, July 2016 April 2017	Onipede Gbemisola Olufunke	University of Ibadan, Nigeria	OWSD
6 months, June Nov 2015	Adesetan Titilayo	Olabisi Onabanjo University, Nigeria	TETFund
30 days, June 2015	Facundo Felix	Instituto de Biotecnología CICVyA, CNIA INTA Castelar, Argentina	SA/Argentina bilateral
30 days, August 2014	Ben Guerrero Emiliano	Instituto de Biotecnología CICVyA, CNIA INTA Castelar, Argentina	SA/Argentina bilateral
2 months, 2013	Olorunjuwon O. Bello	Olabisi Onabanjo University, Nigeria	TETFund

(16e) Incoming scientists hosted and the source of funds

Duration	Scientists	Institute/Country of origin	Source of funds
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Nov 27 th Dec 1 st , 2017	Prof Maria-Magdalene Zamfirache	“Alexandru Ioan Cuza” University, Faculty of Biology, B-dul. Carol I, nr. 20 A, 700506, Iasi, Romania	South Africa-Romani joint thematic cooperation 2014
Nov 27 th Dec 1 st , 2017	Prof Marius Stefan	“Alexandru Ioan Cuza” University, Faculty of Biology, B-dul. Carol I, nr. 20 A, 700506, Iasi, Romania	South Africa-Romani joint thematic cooperation 2014
Nov 27 th Dec 1 st , 2017	Prof Zenovia Olteanu	“Alexandru Ioan Cuza” University, Faculty of Biology, B-dul. Carol I, nr. 20 A, 700506, Iasi, Romania	South Africa-Romani joint thematic cooperation 2014
Nov 27 th Dec 1 st , 2017	Dr Marius Mihasan	“Alexandru Ioan Cuza” University, Faculty of Biology, B-dul. Carol I, nr. 20 A, 700506, Iasi, Romania	South Africa-Romani joint thematic cooperation 2014
23 rd Oct -Nov 6 th , 2017	Prof Gwyn A. Beattie	Department of Plant Pathology & Microbiology, Iowa State University, Iowa, USA	Knowledge Interchange and Collaboration (KIC) event 2017
23 rd Oct - Nov 6 th , 2017	Prof Larry Halverson	Department of Plant Pathology & Microbiology, Iowa State University, Iowa, USA	Knowledge Interchange and Collaboration (KIC) event 2017

(16f) Outgoing exchange students and the source of funds

Duration	Fellow	Institute/Country of origin	Source of fund
20/10/2017 - 29/10/2017	Khomotso Mongadi	“Alexandru Ioan Cuza” University, Faculty of Biology, B-dul. Carol I, nr. 20 A, 700506, Iasi, Romania	SA-Romania awarded to Babalola
16/05/2017 - 15/06/2017	Motlagomang Khantsi	“Alexandru Ioan Cuza” University, Faculty of Biology, B-dul. Carol I, nr. 20 A, 700506, Iasi, Romania	SA-Romania awarded to Babalola
04/10/2015 - 23/10/2015	Lindiwe Mokgakane	Microbial Ecology of Lyon University Lyon 1, France	SA/Protea awarded to Babalola
13/09/2015 - 11/12/2015	Tumelo Isaac Thebe	Instituto de Biotecnología CICVyA, CNIA INTA Castelar. Los Reseros y Las cabañas s/n Hurlingham. Argentina Tumelo (my student) in Argentina http://inta.gob.ar/noticias/argentina-es-el-lugar-elegido-por-tesistas-extranjeros	SA/Argentina awarded to Babalola
09/11/2014 - 11/12/2014	Raven Keokeditswe Motsewabangwe	Instituto de Biotecnología CICVyA, CNIA INTA Castelar. Los Reseros y Las cabañas s/n Hurlingham. Argentina Raven (my student) in Argentina	SA/Argentina awarded to Babalola

		http://intranet.inta.gob.ar/noticias/boletin-de-noticias/boletin-301/compartir-el-conocimiento-para-crecer-juntos	
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(16g) Postdoctoral fellows

Fellow
Dr Agbodjato Adouke Nadege (39705749). University of Abomey-Calavi (UAC)/Benin.
Dr Akanmu Akinlolu Olalekan (38835975). PhD, University of Ibadan, Nigeria
Dr Ayangbenro Ayansina Segun (28072693) PhD NWU, South Africa.
Dr Igiehon Ozede Nicholas (28516729) PhD NWU, South Africa.
Dr Amoo Adenike Eunice (27374564) PhD NWU, South Africa.
Dr Emmanuel Chiamaka Obianuju (33464243) PhD, KNUST, Ghana.
Dr Ajilogba Caroline F (23703563) PhD, NWU, South Africa.
Dr Ojuederie Omena Bernard (30783887) PhD, University of Ibadan, Nigeria
Dr Uzoh Ifeyinwa Monica (29929423) PhD University of Nigeria, Nsukka, Nigeria
Dr Aremu Rhoda Bukola (23925523) PhD, NWU. Awardee NRF scarce skill postdoctoral fellowship
Dr Renganathan Seenivasagan (28744969) PhD, Periyar University, India
Dr Mobolaji Felicia Adegboye (23229926) PhD, NWU, South Africa.
Dr Shivakumar P. Banakar (26426803) PhD, KU, India
Dr Abeer Ahmed Qaed Ahmed (26923408) PhD, CIB, China
Dr Elizabeth Temitope Alori (26940922) PhD Ilorin, Nigeria.
Dr Olajire Michael Dare (25665197), PhD UI, Nigeria.
Dr Ezekiel Lawal (24870552), PhD UI, Nigeria.
Dr Hamid Igbal Tak (24037699), PhD AMU, India
Dr Lubanza Ngoma (24014028), PhD, Wits, South Africa
Dr Faheem Ahmad (23849843), PhD, AMU, India

17. Grantsmanship (Research Funds)

Status	Funds source/project title	PI	Duration	Amount
2021	Research and Technology Fund 2019, Application of hypervirulent bioinoculants to combat Striga: toward parasitic witchweed management in maize farmlands RTF181216404525	OOB/JJO	3 years	R1200,000**
2021	Incentive Funding for Rated Researchers 2021	OOB	N/A	R30,000**

2020	Specialized research equipment (Greenhouse)	OOB/FSS	N/A	R2 590 000* *
2020	Soil microbiome under abiotic stress condition: Adoptive bacterial assemblage and biogeochemical processes. IND190829472963	OOB/DRC	3 years	R960,000*
2020-2021	Research Grants: General. Rhizobacteria exploitation as biofertilizer to reduce droughts stresses on maize production. SRUG190311422884. UID123634	OOB	2 years	R290,336.00 R248,962.00* *
2019	Travel, Training and Conference Grants. KIC190224420703. UID119948	OOB	5 days	R30,000* *
2017	Knowledge Interchange and Collaboration (Local Event Support) KIC170401225400, UID110133	OOB	5 days	R100,000* *
2016	Knowledge Interchange and Collaboration (Conference Grants) KIC160624174063 (USA) (UID105248)	OOB	1 month	R50,000* *
2016/2017 to 2018	SA-Romania bilateral. Study of Zea mays and Vigna unguiculata rhizosphere diversity - premises for potential applications in bioeconomy (Ref: RJCT14050166741, UID104015)	OOB & Dr Marius Stefan	2 years	R250,000* *
2016	UK - South Africa Researcher Links Mobility 2016 UK160215158213; UID104050	OOB	1 month	R30,000* *
2015	Knowledge Interchange and Collaboration (Conference Grants) (KIC150916142751; UID98460)	OOB	1 year	R25,000* *
2014/2015-2016	NRF/Protea Joint call 2014. Protection of maize by Pseudomonas Plant Growth Promoting Rhizobacteria against <i>Fusarium graminearum</i> (FSTR14070673999; UID95111)	OOB & Dr Claire Prigent-Combaret	2 years	R137,100* *
2014-2017	South Africa /Argentina Joint Science and Technology Research “Prospection, identification and characterization of cellulases coding gene for obtaining bioethanol”(Aug 2013) UID91990 http://www.mincyt.gob.ar/convocatoria/programa-de-cooperacion-mincyt-dst-sudafrica-2013-8011	OOB & Dr Talia Paola	3 years	R450,000* *
2013	Knowledge Fields Development (Development Grants) UID83109	OOB	1 year	R35,000* *

2013-2014	Indigenous Knowledge Systems Call 2013 (IKS12102214311; UID86625) “Studies on the resident root-nodule bacteria from landraces of <i>Vigna subterranean</i> (Bambara groundnut)”	OOB	1 year	R500,000 **
2012-2017	Incentive Funding for Rated Researchers 2012 (IFR1203150666; UID81192)	OOB	7 years	R40,000 PA **

Amount requested ** Amount already granted

Prof BABALOLA Olubukola Oluranti, Pr.Sci.Nat., MASSAF, FASLP, FTWAS

Schedule a meeting with me: https://calendly.com/olubukola_babalola