

MARIAM OYEDEJI AMUSA

(MSc, Cand. Sci., MSAAB, MSASSB)

Date of Birth: 20-02-1983

Passport No: A08954775

Contact: Department of Botany and Plant Biotechnology, University of Johannesburg, South Africa.

Cell: +27670524820

Email: oyedejamusa@gmail.com

SUMMARY:

Mariam Oyedeji Amusa has over 13 years of working experience of which 6 years have been lecturing and researching at the university level and 7 years as a skill and self-empowerment facilitator. She has demonstrated high leadership skills in several organizations. She is a member of international and local organizations including the South Africa Council for Natural Scientific Professionals (SACNASP), the South African Association of Botanists (SAAB), and Southern African Society for Systematic Biology (SASSB). She is well-dedicated and works with little or no supervision.

EDUCATIONAL HISTORY

PhD, Botany & Plant Biotechnology, Department of Botany and Plant Biotechnology, University of Johannesburg, Johannesburg, South Africa.

Thesis: A Multidisciplinary Study of South African Meliaceae.

Supervisors: Prof Ben-Erik Van Wyk & Dr. Nicholas Sadgrove (**November 2021**)

MSc, Pharmacognosy, Department of Pharmacognosy, University of Ibadan, Ibadan Nigeria.

Thesis: Antimicrobial activity of *Nauclea latifolia*. Smith (Rubiaceae).

Supervisor: Prof K. A. Abo (**October 2010**)

BSc (Hons), Plant Biology, Department of Botany, University of Ilorin, Ilorin Nigeria.

Thesis: An Evaluation of Variation in Germination and Seedling Growth of Eight Varieties of Cowpea.

Supervisor: Prof O.T. Mustapha (**September 2005**) **Certificate:**

Certificate: Engineering Project Management: Initiating and Planning (**2020**)

Certificate: Certificate of Merit (Development Knowledge Facilitator Millennium development goals (MDG's) (**2007**))

Certificate: Advance Diploma in Desktop and Publishing (**2006**)

INSTITUTIONAL AWARD AND ACHIEVEMENT

- 2019 Third Place Prize for presentation in Doctor of Philosophy category at The Post Graduate Symposium, University of Johannesburg.
- 2018 Third Place Prize for presentation in Doctor of Philosophy category at The Post Graduate Symposium, University of Johannesburg.
- 2005 Best Graduating student, Department of Plant Science, University of Ilorin, Ilorin Nigeria.

EMPLOYMENT HISTORY

2022–Date **NRF Postdoctoral Fellow**, Department of Botany and Plant Biotechnology, University Johannesburg, South Africa.

Responsibilities

- Co-supervise and mentor special elective students
- Special project on biological investigations of plants used for plant purification

2021–2021 **Research Assistant for Prof. B-E van Wyk**, DST-NRF South African Research Chair in Indigenous Plant Use. Department of Botany and Plant Biotechnology, University of Johannesburg, South Africa.

Responsibilities

- Co-supervise and mentor five honors students with their project and write-up
- Assist masters and PhD students with their laboratory experiments on antimicrobial assays
- Write manuscripts for publication

2017–2020 **Student Assistant/ Tutor**, University of Johannesburg, South Africa.

Responsibilities

- Organize practicals on wood anatomy and plant diversity
- Prepare herbarium specimens, physical curation, and sorting specimens in their correct accession numbers (JRAU herbarium)
- Grade term papers, examinations, and student tutorial participation
- Supervise specialized student projects (undergraduate and honours)
- Organize field trips
- Assess and mark students' scripts online (Covid-19 regulations)

2015–2016 **Research Student**, University of the Free State, South Africa.

Responsibilities

- Conducted Research on antimicrobial studies and ethnoveterinary survey
- Wrote manuscripts for publication

2007–2014 **Approved, Accredited, Development Knowledge Facilitator**, CEO queen4ever Nigeria Enterprises in partnership with National Youth Service Corps (NYSC) Nigeria.

Responsibilities

- Trained and mentored over 400 graduates in Bead making (60 per year in batches of 20) for self-reliance
- Delivered motivational talks on skill acquisition and entrepreneurial development
- Supervised and monitored trainees on establishing their business

2007–2009 **Science Tutors:** Yinbol College Orogun, Ibadan, Nigeria.

Responsibilities

Taught Courses: Biology, Agricultural Sciences

- Organized practical sessions
- Organized test and examinations
- Graded term papers

2006–2007 **Science Tutors:** National Youth Service Corp Nigeria.

Responsibilities

Taught Courses: Biology, Agricultural Sciences

- Organized practical sessions
- Organized test and examinations
- Graded term papers

2003–2004 **Intern Assistant:** Federal Ministry of Tourism, Ilorin, Nigeria.

Responsibilities

- Cultivated Nursery beds of different Plants
- Cultivated plants for horticulture uses

PUBLICATION RECORDS

Book and Book Chapter:

Aribisala Jamiu Olaseni, Madende Moses, **Oyedeji Amusa Mariam Oyefunke** and Sabiu Saheed 2020: 11 Dietary nutrients, anti-nutritional factors, and valorization of food waste: In Food Science and Technology. <https://doi.org/10.1515/9783110667462-011>

Oyedeji Amusa Mariam, 2019: Medicinal properties of whole fruit extracts of *Nauclea latifolia*.

LAP LAMBERT Academic Publishing.

Journals:

- 1) **Oyedeji Amusa, M.O.**, Sadgrove, N. J., and Van Wyk, B.-E., 2021. Ethnobotany and Chemistry of South African Meliaceae: A Review. *Plants* 10(1796): 1–42. (I.F – 3.935, Q1)
- 2) **Oyedeji Amusa, M.O.**, van Vuuren, S., and Van Wyk, B.-E., 2020. Antimicrobial activity and toxicity of extracts from the bark and leaves of South African indigenous Meliaceae against selected pathogens. *South African Journal of Botany* 133(2020), 83-90. (I.F – 1.7, Q2)

- 3) **Oyedeji Amusa, M. O.**, Van Wyk, B.-E., and Oskolski A.O., 2020. Wood anatomy of South African Meliaceae: evolutionary and ecological implications. *Botanical Journal of the Linnean Society* 193, 165-179. (I.F – 3.88, Q1)
- 4) **Oyedeji Amusa, M. O.**, and Ashafa, A.O.T., 2019. Medicinal properties of whole fruit extracts of *Nauclea latifolia* Smith.: Antimicrobial, antioxidant and hypoglycemic assessments. *South African Journal of Botany* 121(2019), 105-113. (I.F – 1.78, Q2)
- 5) **Oyedeji Amusa, M. O.**, Ojuromi, O.T., and Ashafa, A.O.T., 2016. Ethnoveterinary survey of tradomedical importance of *Bos Taurus* L urine, bile and dung in Nigeria and South Africa. *Tropical Journal of Pharmaceutical Research* 15(8), 1807-1813. (I.F – 0.48, Q3)
- 6) **Oyedeji Amusa, M. O.**, and Ashafa, A.O.T., 2016. Evaluation of Antimicrobial properties of *Nauclea latifolia* fruit extracts. *South African Journal of Botany* 103, 342-343. (I.F – 1.7, Q2)
- 7) **Oyedeji Amusa, M. O.**, Van Wyk, B.-E., and Oskolski A.O., 2020. Bark anatomy of South African Meliaceae. *International Association of Wood Anatomists Journal* (Awaiting submission).
- 8) **Oyedeji Amusa, M. O.**, Van der Bank, M., Bello, A.T., and Van Wyk, B.-E., 2020. Molecular systematics of South African Meliaceae. *South African Journal of Botany* (Awaiting submission).
- 9) **Oyedeji Amusa, M. O.**, and Van Wyk, B.-E., 2020. Taxonomic revision of South African Meliaceae. *Phytotaxa* (Awaiting submission).

CONFERENCE/SEMINAR PRESENTATIONS

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| 2022 | Indigenous Plant Use Forum (IPUF), Johannesburg, South Africa. 4 th – 7 th July 2022
Oral presentation: Ethnobotany and antimicrobial activities of South African Meliaceae |
| 2020 | University of Johannesburg, Department of Botany & Plant Biotechnology Annual Postgraduate Symposium, University of Johannesburg, Johannesburg, South Africa. 23 rd – 25 th November 2020
Virtual presentation: Ethnobotany and chemistry of South African Meliaceae |
| 2019 | The 45 th SAAB, AMA & SAAAB Congress, University of Johannesburg, Johannesburg, South Africa. 9 – 12 th January 2019
Oral presentation: Wood anatomy of South African Meliaceae: Phylogenetic and ecological implications |
| 2019 | University of Johannesburg, Department of Botany & Plant Biotechnology Annual Postgraduate Symposium, University of Johannesburg, Johannesburg, South Africa. 5 th – 6 th November 2019
Oral presentation: Bark anatomy of South African Meliaceae |
| 2018 | 21 st Indigenous Plant Use Forum (IPUF) Annual Conference, Surval Boutique Olive Estate, Oustshoorn, Western Cape, South Africa. 1 st – 4 th July |

- 2017 University of Johannesburg, Department of Botany & Plant Biotechnology Annual Postgraduate Symposium, University of Johannesburg, Johannesburg, South Africa. 6th – 7th November 2017
Oral presentation: Wood anatomy of South African Meliaceae
- 2017 20th Indigenous Plant Use Forum (IPUF) Annual Conference, Batter Boys Village, Montana, Pretoria, South Africa. 9th – 12th July 2017
- 2016 1st International Conference of the Society for Medicinal Plants and Economic Development (SOMPED), Kopanong Hotel and Conference Centre, Johannesburg, South Africa. 14th – 16th August 2016
Oral presentation: Time-kill Assessment of *Nauclea latifolia* fruit extracts against susceptible bacterial isolates
- 2016 The 42nd Congress of the South African Association of Botanists, University of the Free State, Bloemfontein, South Africa. 10th – 13th January 2016
Oral presentation: Evaluation of antimicrobial properties of *Nauclea latifolia* fruit extracts
- 2008 2nd Natural Product Research Colloquium and Guest Lecture Conference, University of Ibadan, Ibadan, Nigeria. 20th – 21st, 2008

JOURNAL REVIEWED

1. Journal of Microbiology, Biotechnology, and Food Sciences
2. Current Nutraceuticals
3. Food & Function
4. Journal of Food Biochemistry
5. Mediterranean Journal of Chemistry
6. Mini-Reviews in Organic Chemistry
7. Probiotics and Antimicrobial Proteins

PROFESSIONAL MEMBERSHIP:

- **Candidate Natural Scientist:** South Africa Council for Natural Scientific Professional (**SACNASP**)
- **Member:** South African Association of Botanists (**SAAB**)
- **Member:** Southern African Society for Systematic Biology (**SASSB**)

TRAINING/WORKSHOP:

	Training Type	Training Title	Location	Start Date	End Date
1	Workshop	How to create a free Web-based questionnaire using Google Forms	South Africa	06/04/2022	06/04/2022
2	Workshop	Systematic Reviews of Research: Conducting a Systemic Search of the Literature in Scopus	South Africa	05/04/2022	05/04/2022
3	Workshop	A basic introduction to Mendeley: a reference management tool for managing your research	South Africa	17/03/2022	17/03/2022
4	Workshop/Course	Introduction to BOLD (Barcode of Life Data System)	South Africa	30/07/2019	31/07/2019
5	Workshop	Writing to avoid plagiarism	South Africa	02/08/2019	02/08/2019
6	Workshop	Developing a theoretical proposition and operationalizing constructs	South Africa	31/07/2019	31/07/2019
7	Workshop	Research writing circle	South Africa	30/07/2019	30/07/2019
8	Workshop	Research proposal writing	South Africa	28/07/2018	28/07/2018
9	Workshop	Communicating science to Non-science specialist audiences	South Africa	26/07/2018	26/07/2018
10	Workshop	Using PowerPoint for research communication	South Africa	25/07/2018	25/07/2018
11	Workshop	Use of software in analyzing plant anatomy data	South Africa	07/05/2018	07/05/2018
12	Workshop	Use of geneious in analyzing molecular data	South Africa	01/03/2018	01/03/2018
13	Seminar	Enhancing interdisciplinary research	South Africa	27/06/2017	27/06/2017

RESEARCH EXPERTISE

2017- 2021 **Doctoral Candidate**, University of Johannesburg, South Africa

- Proficiency in carrying out antimicrobial and cytotoxicity assays
- Proficiency in using statistical packages in analysing biological data
- Proficiency in carrying out different biological research analysis on plants
- Proficiency in wood and bark anatomy
- Proficiency in carrying out field trips on the ethnobotanical importance of plants
- Proficiency in running column chromatography to isolate bioactive compounds from plants
- Experience with the use of NMR machine in the analysis of isolated compounds from plants

COMMUNITY INVOLVEMENT/ADMINISTRATIVE ACTIVITY:

- 2020–2021 **Welfare Officer**, Congress of Nigerian Students at the University of Johannesburg
- 2007–2015 **Accredited Skill Facilitator**, Motivational speaker, and skill facilitator among youths in Oyo and Kwara State, Nigeria
- 2010–2015 **Member**, Examiner, the West African Examination Council, Nigeria
- 2010–2015 **Member**, Examiner, the Federal Republic of Nigeria National Examination Council
- 2006–2007 **Executive**, Muslim Corpers' Association of Nigeria, Oyo State
- 2006–2007 **Financial Secretary**, Millennium development goal's NYSC-Oyo state Nigeria
- 2005 **Ag. Coordinator**, Association of Muslim Bioscience Students, University of Ilorin, Nigeria
- 2005 **Ag. Coordinator**, Association of Muslim Science Students, University of Ilorin, Nigeria
- 2004 **Treasurer**, Federation of Ibadan Student Union (FISU), University of Ilorin Chapter Nigeria
- 2001–2005 **Member**, Hospital Visitation Group University of Ilorin Nigeria

References

Prof. B-E van Wyk
DST-NRF South African Research Chair in Indigenous Plant Use
Department of Botany and Plant Biotechnology,
Faculty of Science
University of Johannesburg,
Johannesburg, South Africa
Email: bevanwyk@uj.ac.za
Tel: +27 (0)828004134

Dr. Oskolski Alexie
Department of Botany and Plant Biotechnology,
Faculty of Science
University of Johannesburg,
Johannesburg, South Africa
Email: aoskolski@gmail.com
Tel: +27 (0)714643301

Dr. Nicholas Sadgrove
Jodrell Science Laboratory,
Royal Botanic Gardens,
Kew, Richmond, Surrey
United Kingdom, TW9 3DS.
Email: nicholas.sadgrove@gmail.com
Tel: +44 (0) 7857569823