

Curriculum Vitae



Name: **Dr. ANDIMA MOSES (Ph.D.)**

Address: Department of Chemistry, Busitema University

Tel: +256777058371

Email: andima.moses@gmail.com , mandima@sci.busitema.ac.ug

Nationality: Ugandan

Date of birth: 24/10/1982

<https://orcid.org/0000-0003-1183-23072>

EDUCATION

2015-2020, Ph.D Department of Chemistry, University of Nairobi, Nairobi, Kenya

2010-2013, M.Sc. Chemistry Makerere University, Uganda.

2002-2005, BSc.Ed Chemistry/Biology, Mbarara University of Science and Technology, Mbarara (MUST), Uganda.

2000-2001, Uganda Advanced certificate of Education, Mvara Secondary School.

1996-1999, Uganda Certificate of Education, Ombatini Secondary School

1988-1995, Uganda Primary Leaving examinations, Wandi Primary School

WORK EXPERIENCE

2020-to date: Senior Lecturer in the department of chemistry, Busitema University, Uganda; (Duties include Teaching, Research supervision and mentorship, research and community outreach.

2016-2020, Lecturer in the department of chemistry, Busitema University, Uganda. (Duties include Teaching, Research supervision and mentorship, research and community outreach

2008-2016, Teaching assistant in the department of chemistry, Busitema University.

2006-2009, Education officer at Tororo Girl's School (Duties included Class teacher, House teacher, Head of Chemistry department).

AWARDS/ SCHOLARSHIPS

2022: Postdoc fellow of the Alexander von Humboldt fellowship at Helmholtz institute for Pharmaceutical Research, Saarland, Germany

2017, DAAD short-term Research scholarship for in-region/in-country scholarship holders; Ludwig Maximilians University-Munich, Germany

2015, DAAD scholarship; PhD studies, University of Nairobi, Kenya

2010 NCHE scholarship, MSc Studies, Makerere University, Uganda.

2002, Government of Uganda Merit Scholarship, BSc.Ed studies at MUST

GRANTS/FUNDED PROJECTS	<p>(i) 2020-2021: Busitema University Research and Innovation Fund (BURIF): Developing Ugandan 3D Natural Products database for computer aided drug discovery and development (Principal investigator).</p> <p>(ii) 2020: Evaluation of the anti-sars-cov-2 activity of compounds from <i>Tephrosia linearis</i>, <i>zanthoxylum chalybeum</i> and <i>Albizia coriaria</i> and formulation of herbal product(s) for management of covid-19 (Presidential Scientific Initiative on epidemics research project, Co-principle investigator).</p> <p>(iii) 2019: Busitema University, Directorate of graduate studies, research and innovation Small research grants No. DGSRI-01 (Joint publication grant, Team Leader)</p> <p>(iv) 2019: Busitema University, Directorate of graduate studies, research and innovation Small research grants DGSRI-SRG2019-01 (individual research grant), Project title: Bioprospecting for Endophytes from Selected Medicinal Plants with Potential Application in Health and Improved Crop Production (PI)</p> <p>(v) 2018: Busitema University, Directorate of graduate studies, research and innovation Small research grants No. DGSRI-SRG2020-01 (Joint publication grant)</p>
RESEARCH INTEREST	<p>Areas of my research interest include</p> <ul style="list-style-type: none"> • Natural products drug discovery with potential application in health and Agriculture. • Nanomaterials and its applications in drug delivery, therapeutics and diagnostics. • Computer aided drug discovery and design
RESEARCH PUBLICATIONS	<ol style="list-style-type: none"> 1. Obakiro, S. B., K'Owino, I., Kigonde, E., Andima, M., Owor, R. O., & Kiprop, A. (2022). Molecular Docking Interactions with Mycobacterial ATP and Polyketide-13 Synthase Enzymes of Phytoconstituents Isolated from <i>Entada abyssinica</i> Stem Bark, <i>Biointerface Research in Applied Chemistry</i>, Volume 13, Issue 4, 2023, 323 https://doi.org/10.33263/BRIAC134.323 2. Obakiro, S. B., Kiprop, A., K'Owino, I., Andima, M., Owor, R. O., Chacha, R., & Kigonde, E. (2022). Phytochemical, Cytotoxicity, and Antimycobacterial Activity Evaluation of Extracts and Compounds from the Stem Bark of <i>Albizia coriaria</i> Welw ex. Oliver. <i>Evidence-Based Complementary and Alternative Medicine</i>, https://doi.org/10.1155/2022/7148511 3. Moses Andima, Albert Ndakala, Solomon Derese, Sarkar Biswajyoti, Aabid Hussain, Li Jun Yang, Otieno Elsie Akoth, Paolo Coghi, Chiranjib Pal, Matthias Heydenreich, Vincent Kam-Wai Wong & Abiy Yenesew (2021) Antileishmanial and cytotoxic activity of secondary metabolites from

Taberneamontana ventricosa and two aloe species, Natural Product Research, DOI: [10.1080/14786419.2021.1871906](https://doi.org/10.1080/14786419.2021.1871906)

4. **Andima, M.**, Coghi P., Yang J. L., Wong K. W V., Ngule C M., Matthias H, Ndakala J. A., Yenesew A., Derese S., Antiproliferative Activity of Secondary Metabolites from *Zanthoxylum zanthoxyloides* Lam: In vitro and in silico Studies. *Pharmacogn. Commn.* 2019; 9(3): 91-95. DOI:[10.5530/pc.2020.1.8](https://doi.org/10.5530/pc.2020.1.8)
5. **Andima, M.**, Costabile, G., Isert, L Ndakala, J. A., Derese, S., and Merkel, O., Evaluation of β -Sitosterol Loaded PLGA and PEG-PLA Nanoparticles for Effective Treatment of Breast Cancer: Preparation, Physicochemical Characterization, and Antitumor Activity. *Pharmaceutics*, 2018. **10**(4): p. 232. DOI: [10.3390/pharmaceutics10040232](https://doi.org/10.3390/pharmaceutics10040232)
6. Robert Byamukama, **Moses Andima**, Angella Mbabazi, Bernard T Kiremire, Anthocyanins from mulberry (*Morus rubra*) fruits as potential natural colour additives in yoghurt. *African Journal of Pure and Applied Chemistry* 2014, **8**(12).
7. **Andima Moses**, Ssegujja Bernard, Owor Richard Oriko, Andama Edward, Preliminary qualitative analysis of phytochemical constituents of the Endemic Aloe tororoana Raynolds in Tororo, Eastern Uganda. *Global Advanced Research Journal of Agricultural Science*. 2014, **3**(3).

Conferences

1. 13-16 September, 2022: DPhG-Jahrestagung 2022, Marburg, Germany: Targeting Intracellular Bacteria with Multi-Drug-Loaded lactoferrin nanoparticles(Poster presentation):
2. 5th May, 2022: HIPS symposium, at Helmholtz institute for pharmaceutical Research, Saarland, Germany: Developing synergistic drug combinations based on natural products against respiratory tract infections (Poster presentation).
3. 6th April, 2022: Young investigators symposium, Homburg, Germany
4. 5th April, 2019: NAPRECA (U). In silico evaluation of secondary metabolites from the genus *Indigofera* as potential DNA gyrase inhibitors: Towards Bacterial treatment.
5. 5th April, 2019: NAPRECA (Uganda chapter) conference. Paper presented: enhancement of therapeutic efficacy of selected natural products using nanomedicine. (Oral presentation).
6. April 6-8, 2018 Attended the Sino-German Young Research Symposium on Nanopharmaceuticals: Drug Delivery in the Nanoscale
7. Nov. 2018, PACN/RSC Meeting, at University of Nairobi: Paper presented: Anticancer potential of secondary metabolites isolated from *Zanthoxylum zanthoxyloides* (Lam): An In vitro and in silico investigation (Poster).
8. 15th Dec 2013: NAPRECA symposium in Khartoum-Sudan: Paper presented: Anthocyanins from mulberry (*Morus rubra*) fruits as potential natural colour additives in yoghurt (Oral).

OTHER RESEARCH ACTIVITIES

1. Participated in organization of NAPRECA conference in 2018.
2. Participated in organizing and hosted the first NAPRECA virtual research seminar on 24th September 2020.

GRADUATE RESEARCH SUPERVISION

Kiprotich Sammy: Anticancer potential of phytochemicals from *Senna didymobotrya* and its nanoparticle encapsulated form. (On-going MSC project), Department of chemistry, Makerere University.

**EXTERNAL
EXAMINATION**

1. Kanya Vicent, Reg. No. (156/15292/2018: PHYTOCHEMICAL INVESTIGATION OF FIVE PENTAS SPECIES FOR LEISHMANICIDAL PRINCIPLES. MSc thesis. Department of Chemistry, University of Nairobi
2. Brian Kwikiriza Reg. No. 2017/MSC/038/PS: LEVELS OF SYNTHETIC FOOD DYES AND PRESERVATIVES IN LOCALLY MADE FUNCTIONAL BEVERAGES ON MARKET IN MBARARA MUNICIPALITY, UGANDA. MSc Thesis. Department of Chemistry, Mbarara University of Science and Technology.

**SHORT
TRAININGS**

1. 7-9th April 2021: Grant proposal writing training workshop organized by the directorate of graduate studies, research and innovation, Busitema University.
2. 9-20 Sept. 2019: School on biophysical approaches to macromolecules and cells: Intergrated tools for life sciences and medicine, organized by ICTP in Arusha Tanzania.
3. 29th July-2nd August 2019. Strengthening teacher educators' capacity in gender responsive pedagogies (GPR) for improved STEM education in Uganda.
4. 3rd July-30th August, 2018. Partnerships for sustainable solutions with sub-saharan Africa: Bioeconomy. Topic: Separation and structural elucidation of plant derived compounds; Egerton University, Kenya.
5. 9th -11th Sept. 2015, Introduction to computational chemistry and in-silico visualization" organized of Cambridge Crystallographic Centre at UoNBi, Nairobi-Kenya.
6. 4th-8th Oct. 2013. Training and learning in the 21st Century" at Kisubi Brothers University college, Uganda.
7. 3rd -5th Dec. 2013. In silico docking of secondary metabolites against NTDs in Khartoum, Sudan.
8. 16th -19th May. 2011. Research Management organized by directorate of research and graduate training Makerere University at Busitema University.
9. January 2010. Microsoft Live@Edu deployment and integration. College of computing, Makerere University.
10. 1st -14th August 2007. Project planning and management at Uganda College of commerce, Tororo.
11. 22nd Jan -2nd Feb 2007: SESEMAT training, at Bukedi College Kachonga.
12. 24th -26th Aug. 2007: Cyber School certified super teacher training at CSTS resource center-Mbale.
13. 28th - 1st Sept, 2006. Cyber certified computer Teacher- level 1 training. Mukono District Agricultural Farm Institute.

**MEMBERSHIP TO
PROFESSIONAL
ASOCIATIONS**

2022: Member Natural Products Research Network for East and Central Africa (NAPRECA).
2020 to date: Interim committee member of the chemical society of Uganda.
2016-2017: Associate member Royal society of chemistry (AMRSC 6221)
2013-2016: Member of Nature Uganda
2018 to date: Member of Natural Products Research Network for Eastern and Central Africa

COMMUNITY
SERVICE

2013 to date General secretary for the West Nile Tororo Community Association. During my tenure, the association has engaged in environmental conservation through tree planting activities. We have supplied and planted assorted tree species at Morukatipe prisons, Busitema University, and Rock view primary school. We have undertaken other activities including VSLA aimed at socio-economic transformation of the community members.

REFERENCES

Prof. Claus-Michael Lehr

Helmholtz Institute for Pharmaceutical
Research, Saarland, Germany

Claus-Michael.Lehr@helmholtz-hips.de

Prof. Olivia Merkel

LMU Munich
Department of Pharmacy
Pharmaceutical Technology and
Biopharmaceutics

olivia.merkel@lmu.de

PROF. ABIY YENESEW

Department of Chemistry
Universirty of Nairobi

ayenesew@uonbi.ac.ke

I Moses Andima confirm that the information provided in this CV is correct to the best of my knowledge.



Sign:

14/01/2023

Date: