

CURRICULUM VITAE

A: BIODATA

Surname: Katuura
First name: Esther
Sex: Female
Date of birth: 5th Sept 1971
Place of Birth: Kabale
No. of children: Three
Nationality: Ugandan
Professional Rank: Senior Lecturer
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College of Natural Sciences, P. O Box 7062, C/O Makerere
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B: ACADEMIC AND PROFESSIONAL QUALIFICATIONS

INSTITUTION	YEAR	AWARD
1) ESAMI	2013-2015	MBA(Master of Business Admin)
2) Makerere University	2006-2010	PhD (Ethnopharmacology)
3) Makerere University	2000-2001	PGDE (Biology/Chemistry)
4) Makerere University	1995-1998	MSc (Plant taxonomy)
5) Makerere University	1991-1994	BSc Honors (Bot/Zoo/Chem)
6) Mayhill high School	1989-1991	U.A.C.E
7) Mayhill high School	1985-1988	U.C.E

Ca): RESEARCH AND UNIVERSITY TEACHING EXPERIENCE

INSTITUTION	POST	PERIOD
1) Makerere University (PMB Department)	Senior Lecturer	2018 to date
2) Makerere University (PMB Dept.)	Full time Lecturer	2014 to 2018
3) Makerere University (Pharmacology Dept.)	Part time Lecturer	2007 to 2013
4) Natural Chemotherapeutics Research Inst.	Principal- Research	2011 to 2014
5) Natural Chemotherapeutics Research Inst.	Research Officer	2004 to 2011
4) Makerere University (Pharmacy Dept.)	Part time Lecturer	2004 to 2006
5)Mbarara University of Science and Technology	Full time Lecturer	2001 to 2003
6)Uganda Polytechnic/ Kyambogo University	Part-time Lecturer	1997 to 2001
7) Makerere University Herbarium	Herbarium Assist.	1994

Cb): COURSES TAUGHT AT UNDERGRADUATE LEVEL

1. BBT 3110: Biochemicals in Drug Discovery
2. BBT 3203: Bioentrepreneurship and Product Development
3. ETB 2108: Herbarium Techniques and Botanic Garden management
4. BOT1209: Plant Histology and Anatomy

Cc): COURSES TAUGHT AT POSTGRADUATE LEVEL

- 1.BOT 7243: Advanced Phytotaxonomic Evidences

2. BOT 7244: Traditional and Modern Identification Methods
3. BOT7146: Principals of Plant taxonomy

D: PUBLICATIONS

D) SCIENTIFIC JOURNAL PUBLICATIONS

a) JOURNAL ARTICLES

1. Kawuma Carol, Stedje Brita, **Katuura Esther**, Ipulet Perpetua, Mulumba John, Kakudidi Esezah, Mugizi Felly, Bello Anifat and Namaganda Mary (2025). Diversity, Distribution and Habitat Suitability Assessment of *Solanum* Species of the Leptostemonum Clade in Uganda. *African Journal of Ecology*(63). DOI.10.1111/aje.70021
2. Ojelel S, **Katuura E**, Mucunguzi P, Kalema J. Comparative analysis of floristic richness and diversity in six central forest reserves of north eastern Uganda. *BMC Ecol Evol.* 2025 Jan 18;25(1):12. doi: 10.1186/s12862-024-02323-1. PMID: 39827345; PMCID: PMC11743001.
3. Akwongo B, Kakudidi E.K, Nsubuga AM, Andama M, Namaganda M, Tugume P, Asimwe S, Anywar G, **Katuura E.**(2024). *In vitro* antifungal activities of medicinal plants used for treatment of candidiasis in Pader district, Northern Uganda. *Trop Med Health.* 2024 Nov **13;52(1)**:84. doi: 10.1186/s41182-024-00628-x.
4. Kawuma, C., M. Namaganda, **E. Katuura**, P. Ipulet, J. W. Mulumba, E. Kakudidi, F. M. Tusiime, A. O. Bello, and B. Stedje. *Phytotaxa*, vol. 661, no. 1, July 2024, pp. 63-74, doi:10.11646/phytotaxa.661.1.4.
5. Kawuma, Carol and Anywar, Godwin and Seronjogi, Derick and **Katuura, Esther** and Namaganda, Mary (2024). Dataset on the Geographical Distribution of Species of the Genus *Solanum*, Subgenus *Leptostemonum* in Uganda. Available at SSRN: <http://dx.doi.org/10.2139/ssrn.4627731>.
6. Kyolo, S. K., Bbosa, G. S., Nakasujja, N., Mwebaza, N., Kibendelwa, Z. T., Odda, J., & **Katuura, E.** (2023). Phytochemical Analysis of Selected Medicinal Plants Used in Management of Anxiety and Depressive Disorders in Goma City, Democratic Republic of the Congo. *Open Journal of Depression*, **12**, 23-40. DOI: [10.4236/ojd.2023.123003](https://doi.org/10.4236/ojd.2023.123003).
7. Kyolo S. K, Bbosa G. S., Odda J., Mwebaza N., Kibendelwa Z. T., Nakasujja N. and **Katuura E.** (2023). Indigenous knowledge and perceptions toward mental illnesses within Goma city in Democratic Republic of Congo. *Translational Medicine: 1(2)*: 56-67. Open Access (TMOA).ISSN: 2993-5407 DOI: 10.33140/TMOA.
8. Akwongo Betty; **Katuura Esther**; Nsubuga Anthony M.; Tugume Patience; Andama Morgan; Anywar Godwin; Namaganda Mary; Asimwe Savina; Kakudidi Esezah Kyomugisha (2023). Ethnobotanical study of medicinal plants utilized in the management of candidiasis in Northern Uganda. *Journal of Tropical Medicine and Health.* **50:78** <https://doi.org/10.1186/s41182-022-00471-y>

9. Lutoti S, Kaggwa B, Kamba PF, Mukonzo J, Sesaazi CD, **Katuura E.** (2023) Ethnobotanical Survey of Medicinal Plants Used in Breast Cancer Treatment by Traditional Health Practitioners in Central Uganda. *Journal of Multidisciplinary Healthcare*, **16**:635-651. <https://doi.org/10.2147/JMDH.S387256>.
10. Ochora DO, Murithi C, Masai RJ, Abdi F, Cheruyiot A, **Katuura E**, Asiimwe S, Nabatanzi A, Anywar G, Oryem-Origa H, Namukobe J, Kakudidi EK, Yenesew A, Akala HM, Kamau E.(2023). *Ex vivo and in vitro* antiplasmodial activity and toxicity of *Caesalpinia decapetala* (Roth) alston (Fabaceae). *J Ethnopharmacol.* **5**:117007.
11. Walusansa A., Asiimwe S., Nakavuma J. L., Ssenku J. E., **Katuura E.**, Hussein. M. Kafeero H. M., Aruhomukama D., Nabatanzi A., Anywar G., Tugume K. A. and Kakudidi K. E. (2022). Antibiotic-resistance in medically important bacteria isolated from commercial herbal medicines in Africa from 2000 to 2021: a systematic review and meta-analysis. *Antimicrobial Resistance & Infection Control.***11**:11
12. Mercy Gladys Tenywa, Amon Ganafa Agaba, Clement Olusoji Ajayi, Casim Umba Tolo and **Esther Katuura** (2022). Analgesic, anti-inflammatory and oxytocic activities of *Dracaena steudneri* Engl. Stem bark aqueous extract in Wistar rats. *Journal of Medicinal Plant Research*, **16** (4), 148-153.
13. Kyolo S., **Katuura E.**, Bbosa, G., Mwebaza N., Kibendelwa Z. and Nakasujja N. (2022) Medicinal Plants Used in Management of Various Mental Illnesses in Goma City, Democratic Republic of Congo. *Neuroscience and Medicine*, **13**:17-42.
14. Nowak Jadwiga, Anna K. Kiss, Charles Wambebe, **Esther Katuura** and Łukasz Kuźma (2022). Phytochemical analysis of polyphenols in leaf extract from *Vernonia amygdalina* Delile plant growing in Uganda, *Journal of Applied Sciences* 12(2) 912. <http://doi.org/10.3390/app1202912>.
15. Nowak Jadwiga, Charles Wambebe, **Esther Katuura**, Anna Kiss, Łukasz Kuźma (2021). Tentative qualitative and quantitative analysis of phenolic compounds in leaf extract from *Carica papaya* Linn plant growing in Uganda. *Herba polonica* 67(4): 1-9. Doi: 10.2478/hepo-2021-0029.
16. Mercy Gladys Tenywa, Amon Ganafa Agaba, Casim Umba Tolo, Clement Olusoji Ajayi and **Esther Katuura** (2021). Physicochemical, Phytochemical and Pharmacognostical parameters of a herbal plant *Dracaena steudneri* Engl. *Journal of Pharmacognosy and Phytotherapy.* **15** (1), pp. 1-8, DOI: 10.5897/JPP2021.0611.
17. Nowak J., **Katuura E.**, Mukonzo J. and Wambebe C. (2021). Safety Evaluation of Oral Toxicity of Potential Anticancer Agents: An Acute and Sub-Chronic Toxicity Studies of Combinations of *Carica papaya* Linn, *Vernonia amygdalina* Delile and Dihydroartemisinin. *Afr. J. Biomed. Res.* **24**: 413- 420.
18. Mercy Gladys Tenywa, **Esther Katuura**, Casim Umba Tolo, Clement Olusoji Ajayi and Amon Ganafa Agaba (2021). Evaluation of the adverse effects of *Dracaena steudneri* Engl. stem bark aqueous extract in Wistar rats. *African Journal of Pharmacy and Pharmacology* 15(12):197-205. <https://doi.org/10.5897/AJPP2021.5261>

19. Chandia M. **Katuura E.** and Waako P. (2021) The Anti-mycobacterial activity and safety profile of selected *Crinum* Sp. in Northwestern Uganda. *Global Scientific Journals: 9* (6): 861-880: ISSN 2320-9186,
20. Nowak J., Wambebe C., Mukonzo J. and **Katuura E.** (2021). Cytotoxic activity of combining Molecular Iodine and Dihydroartemisinin with methanolic extracts of *Carica papaya* linn and *Vernonia amygdalina*. Delile leaves against mcf-7 and MDA-MB-231 breast cancer cell lines. *Tropical Journal of Natural Product Research. 5*(3):485-493
21. Kyomugisha H., **Katuura E** and S. Ainebyona S. (2020). Microfinance Services and Economic Empowerment of Women of UGAFODE Mbarara Municipality, Uganda. *International Journal of Innovative Science and Research Technology 5*(12): 2456-2165.
22. Ojelel S., Mucunguzi P, Kalema J, Kakudidi EK, Namaganda M and **Katuura E.** (2020). Nutritional value of selected wild edible plants in Teso-Karamoja region, Uganda. *African journal of Food and Agriculture 20* (4): 16112-16126.
23. Lutoti S., Pakoyo F.K., **Katuura E**, Wangalwa R., Mtewa A., Ogwang E.P., Mkonzo J. and Mugume M.N. (2020). A review of breast cancer treatment modalities in Uganda: an appraisal of the breast cancer diagnostic process, regulatory approval and supply system of standardized anti-breast cancer medicines. *International Journal of Advanced Research 8*(02):23-32. 10.21474/IJAR01/10431.
24. Tenywa M. G., Agaba A, Ogwang P. E., Umba C. T., Ajayi O. C. and **Katuura E.** Medicinal plants used in gynecological procedures in Uganda. *Journal of Medicinal Plant Research. 14*(4): 185-194
25. Y. J. Lee, G. Adusumillia, Rauben Kazungu, Godwin Anywar, F. Kyakulaga, **E. Katuura**, S. Parikh and M. Willcox (2019). Treatment-seeking behavior and practices *Trans R Soc Trop Med Hyg; 00*:1 –9
26. Ojelel S., Mucunguzi P., **Katuura E.**, Kakudidi E.K., Namaganda M. & Kalema J. (2019). Wild edible plants used by communities in and around selected forest reserves of Teso-Karamoja region, Uganda. *Journal of Ethnobiology and Ethnomedicine. 15*(3).
27. **Katuura E.**, Kalabika E & Lubega A. (2018). Uterotonic potential of selected plants used by Ugandan local communities in treatment of malaria. *European Journal of Medicinal Plant. 24*(2).
28. **Katuura E.**, Bossa G. B., Waako P. and Ogwal Okeng J. (2017). Antimicrobial activity and phytochemical fingerprints of five crude extracts obtained from indigenous medicinal plants of Uganda. *Research in Pharmaceutical Biotechnology. 7*(1): 1-12.
29. **Katuura E.**, Omujal, F., Tumusiime, R. H., Nabukalu, D., & Byamukama, R. (2016). Documentation of indigenous knowledge on medicinal plants used to manage common influenza and related symptoms in Luwero district, central Uganda. *Journal of Medicinal Plants Research, 10* (39): 705-716.

30. Walugembe, J., Iramiot, J. S., & **Katuura, E.** (2016). Indigenous knowledge and antibacterial activity of selected herbs used locally to treat common cold in Central Uganda. *Journal of Medicinal Plants Research*, **10** (31): 520-528.
31. Kyoshabire M., **Katuura E.**, Cunningham A. B. & Hoeft R. (2017). Medicinal plants and herbalist preferences around Bwindi Impenetrable National Park. *Journal of Medicinal Plants Research*, **11** (8): 161-170.
31. Tushabe J.V., **Katuura E.** & Iramoit J. S. (2017). Bacterial and Fungal Contaminants in *Mycobacterium tuberculosis* Cultures at National Tuberculosis Referral Laboratory-Kampala. *Microbiology Research Journal International*, **19**(5): 1-8.
33. Stangeland T., Alele P., **Katuura E.** & Kåre Lye 2011: Plants used to treat malaria in Nyakayojo sub-county, Western Uganda. *Journal of ethnopharmacology* **99**: 273-279.
34. Stangeland T., Wangsteen H., **Katuura E.**, Kåre A. Lye & Paulsen S. B. 2010: Antioxidant and anti-plasmodial activity of extracts from three Ugandan medicinal plants. *Journal of Medicinal Plant Research* **4**: 1916-1923
35. **Katuura E.**, Waako P., Tabuti J.R.S., Bukenya-Ziraba R. & Ogwal-Okeng J., 2008: Antiplasmodial activity of extracts of selected plants used by local communities in Western Uganda for treatment of malaria, *Afr. J. Ecol.* **45** (3): 94-98.
36. Waako P. J., **Katuura E.**, Smith P. & Folb P.I. 2007: East African medicinal plants as a source of lead compounds for the development of new antimalarial drugs, *Afr. J. Ecol.* **45** (1): 102-106.
37. **Katuura E. et., al**, 2007: Traditional treatment of malaria in Western Uganda. *African Journal of Ecology*. **45** (1): 1-4.

a) BOOKS/CHAPTERS AND THESIS

38. **Katuura E.** Kalabika E. Lubega A. (2019). Uterotonic potential of selected plants used by Ugandan Local communities in treatment of Malaria. In Recent Advances in Biological Research. ISBN Number 978-81-934224-4-1. <http://bp.bbookpi.org/index.php/RABR>.
39. Ojelel S., Kalema J., **Katuura E.**, Kakudidi E. K., Namaganda M. & Mucunguzi P., (2019). Direct use values and nutritional potential of wild edible plants from Teso-Karamoja region, Uganda. Satoyama Initiative Thematic Review Template. Manuscript no. 2018/BP; 767. Book publisher international Science domain international, Guest House Rodd, Street no 1/6, Hooghly, West Bengal India.
40. **Katuura E.**, Jasper Ogwal-Okeng & Paul Waako. Antiplasmodial activity and safety profile of some Ugandan plants. Publisher: Lap Lambert. Academic Publishing (February 21, 2017). ISBN-13: 978-3659815331.
41. Kakudidi E., Kirimuhuzya C., Anywar G., **Katuura E.** and Kiguli J. (2016). Medicinal Plants used in the Management of Non communicable Diseases in Uganda. In: Medicinal

Plants - Recent Advances in Research and Development. Springer Singapore. Singapore. P 397-418T. Print ISBN. 978-981-10-1084-2 DOI. 10.1007/978-981-10-1085-9_17.

42. Francis Omujal, Nambwayo Juliet, Moses Solomon Agwaya, Ralph Henry Tumusiime, Patrick Ogwang Engeu, **Esther Katuura**, Nusula Nalika and Grace Kyeyune Nambatya (2010) Bioactive non-nutrient components in indigenous African vegetables. http://www.fao.org/ag/human_nutrition/25344-2a3d436cad4.pdf

43. **Katuura E.** 2014. Marketability of Natural Health Products for lifestyle diseases in Kampala, Uganda. Masters in Business Dissertation. East and Southern African Management Institute (ESAMI).

44. **Katuura E.** 2010: Documentation, efficacy and Safety profile of plants used traditionally for treatment of malaria in Western Uganda. PhD Thesis, Makerere University, Uganda.

45. **Katuura E.** 1998: Evaluation of the bioactivity of *Justicia betonica* L. with special reference to its antimalarial activity. Master's Thesis, Makerere University, Uganda

c) MANUSCRIPTS AND ARTICLES UNDER REVIEW

1. **Esther Katuura**, Paul Waako, Jadwiga Nowak, Ogwal Okeng (2024). Oral toxicity studies in selected plant extracts used in traditional treatment of malaria in tropical Africa. Manuscript.
2. Betty Akwongo, Kakudidi E.K. Nsubuga A., Andama M..... and **Katuura E.** (2024). The effectiveness of some frequently used medicinal plants for treatment of common fungal infections in Pader district, Northern Uganda. Journal of Ethnopharmacology. In press.
3. Carol Kawuma, Stedje Brita, **Esther Katuura**, Perpetua Ipulet, Mulumba Wasswa, Eseza Kakudidi, Felly Mugizi, Anifat Olayemi, Mary Namaganda (2024). Diversity and habitat suitability assessment of *Solanum* species of the Leptostemonum clade in Uganda" has been assigned to a handling editor who will consider your manuscript for peer review. *African Journal of Ecology*. In press- AFJE-23-363.R1.
4. Samuel Kule Kyolo, John Odda, Norah Mwebaza, Zacharie Tsongo Kibendelwa, Noeline Nakasujja, **Esther Katuura**, and Godfrey S. Bbosa (2024). Assessment of anxiolytic effect of *Euphorbia abyssinica* GML and *Cleome gynandra* L. in *Swiss albino mice*. In press.

E. NATURAL PRODUCTS DEVELOPED/IN DEVELOPMENT

1. Natural dietary supplement: **SUPPORT+** (Ref; 00035 54562). Manufactured by Doctors choice, Kampala-(PhD outcome).
2. **P-acne Herbal Gel:** (Ref.1623—2013). Manufactured by Pubungu herbals, Kampala-(MSc. Outcome).
3. **UGATICK:** Acaricide for veterinary use for control of ticks in cattle-In process commercialization (RIF's project outcome).
4. **Natural Mosquito Repellant:** produced and utilized at household level in a bid to fight malaria Output community outreach project, Bunghoko Sub County, Mbale District.

Fa): GRADUATE SUPERVISION

Students supervised to completion

No.	Name & Degree	Nationality & University	Thesis/dissertation title	Year of award
1	Chandia Milton, MSc. Pharmacology	Ugandan- Makerere University	The anti-mycobacterial activity and safety profile of selected <i>crinum</i> species in Northwestern Uganda	2013
2	Kavuma Carol, MSc. Botany	Ugandan., Makerere University	Adoption of <i>Solanum macrocarpon</i> and <i>Solanum aethiopicum</i> improved agricultural technologies and the botanical importance of these species among famers in Mukono District, central Uganda	2015
3	Mpaata Peter, MSc. Pharmacology	Ugandan, Makerere University	Antibacterial activity and acute dermal irritation of <i>citrus limon</i> essential oil from Eastern Uganda	2018
4	Namara Sarah, MSc. Natural Resources and Environment	Ugandan, Makerere University	Heavy metals in selected plants used by communities around Kilembe copper mines, Kasese Distric, for treatment of Malaria.	2021
5	Senyange Andrew, MSc. Pharmacognosy	Ugandan, Makerere University	Antibacterial and Antifungal properties of plants commonly used in treatment of common skin infections in Uganda	2022
6	Edau Peter, MSc, Pharmacognosy	Ugandan, Makerere University	Therapeutic Potential of a poly herbal anti-diabetic formulation developed from bioactive extracts of selected medicinal plants in Uganda using albino Rats	2022
7	Kyomugisha Honest, MA,	Ugandan, TEAM	Microfinance Services and Economic Empowerment of	2022

		University	women in Uganda: A case study of UGAFODE Mbarara Municipality	
8	Tenywa Mercy, PhD, Natural medicines	Ugandan, Mbarara University	Standardization of <i>Dracaena steudneri</i> Engl. Stem bark for Painless Child Birth in Uganda	2022
9	Ojelel Samuel, PhD, Botany	Ugandan, Makerere University	Nutritional value and conservation status of wild edible plants in Teso-Karamoja.	2023
10	Jagwida Nowak, PhD, Pharmacology	Polish, Makerere University	Evaluating the synergistic effects of <i>Carica papaya</i> linn, <i>Vernonia amygdalina</i> delile, Artemisinin and Iodine as potential agents in the management of breast Cancer	2023
11	Mayanja Mathias, MSc, Pharmacognosy	Ugandan, Makerere University	Formulation and evaluation of herbal anti- <i>Propioni bacterium acnes</i> gel containing extracts of <i>Curcuma longa</i> and <i>Azadirachta indica</i>	2023
12	Kigozi Steven MSc Natural Medicines	Ugandan, Ibadan University, Nigeria	Formulation and evaluation of efficacy of a polyherbal formula against syphilis and gonorrhoea	2023
13	Ochan James, MSc, Pharmacognosy	Ugandan, Makerere University	HPTLC fingerprinting and Toxicity profile of <i>Warburgia ugandensis</i> -in progress.	On the list 2024
Fb: ONGOING GRADUATE SUPERVISION				
No.	Name & Degree award	Nationality& University	Title of the project	Status
14	Kavuma Carol, PhD, Botany	Ugandan, Makerere University	Molecular systematics of the Subgenus <i>Leptostemonum</i> section <i>Melongena</i> in Uganda	Award 2024
15	Kyolo Kule, PhD, Pharmacology	Congolese, Makerere University	Conceptualization of MI and assessment of efficacy and safety of MP used in their treatment by Traditional Healers in Goma City, DRC	Graduated 2025
16	Sarah MSc Zoology	Ugandan, Makerere University	Nutritional ecology of <i>Ceratotherium simum simum</i> at Ziwa Rhino Sanctuary Nakasongola District, Uganda	Submitted for examination
17	Mukwaya Joel, MSc. Pharmacognosy	Ugandan, Makerere University	Acaricidal and safety properties of selected Ugandan Plants	Slow progress
18	Akwong Betty, PhD, Botany	Ugandan, Makerere University	Bioactivity and safety of Medicinal Plants used against <i>Candidiasis</i> in Northern	Graduated 2025

			Uganda	
19	Chandia Milton PhD, Pharmacology	Ugandan, Makerere University	Efficacy of a herbal formulation against TB	Very slow progress
20	Lutoti Steven PhD, Pharmacognosy	Ugandan Mbarara University	Evaluation of Ugandan herbs against breast cancer	In progress
21	Lenina Angela Asiimwe MSc. Natural Resources and Environment	Ugandan Makerere University,	Nutritional value of selected aquatic macrophytes on L. Victoria	Resumed data collection after bad accident

Fc) UNDERGRADUATE STUDENTS SUPERVISED TO COMPLETION

1. Mugisha Allan (In progress). Assessing the Biodiversity of *Cuscuta* in Makerere University.
2. Nantale Melyn immaculate (In progress). Wound healing properties of Sulforaphane extracted from *Brassica oleracea* (broccoli) in Wistar rats.
3. Makune Stephen (2024). Comparative study on the antibacterial activities of black seed oil and Shea nut oil against *Staphylococcus aureus*
4. Tomusange Chrales Kamywa (2024). Activity of *Ageratum conyzoides* against *Escherichia coli*.
5. Sheryl O. (2023). A review of the Phytochemistry and Analgesic properties of *Crinum* species.
6. Ntambi Jil Biyinzika (2023). Evaluation of the fungicidal activity of *Solanum anguivi* Lam and *Euphorbia heterophylla* Linn. Extracts on the growth of *Rhizopus stolonifer* and *Mucor* spp.
7. Oyese Crispus (2022), Bioactivity of *Allium sativum* L. and *Datura stramonium* L. extracts on *Rhizoctonia solani* in tomato.
8. Ssekyanzi Ronald (2022). The activity of *Urtica massaica* mildbr. ethanolic extract against *Enterococcus faecalis*.
9. Mukiiibi Ahamad (2020); BSc Biotechnology). A comparative study of yield of selected varieties of *Glycine max.* L in Najjembe sub-county, Buikwe District, Uganda.
10. Nakayima Agnes (2019). Activity of *Lantana camara* and *Afromum angustifolium* extracts against *Streptococcus pneumoniae* and *Klebsiella pneumoniae*.
11. Nvanungi Jane (2019). Determination of the appropriate propagation techniques of *Vernonia amygdalina* Del.
12. Nabalayo Angel Imani (2018). Documentation of the side effects of medicinal plants used in the traditional treatment of various diseases in Kabarole, Western Uganda.
13. Minawa Faluku (2018). The antibacterial properties of *Stevia rebaudiana* on bacteria that cause dental carries.
14. Nankya Esther (2017). In vitro effect of *Allium sativum* water and ethanol extract against *Staphylococcus aureus*.
15. Mpoza Simeo (2017). The prevalence of *Salmonella typhi* in solid vended cooked food in Kisenyi; a Kampala City suburb.

16. Mukwaya Joel (2016). Evaluation of the wound healing properties of *Tabernaemontana elegans* Ethanolic extract on Wistar Albino rats.
17. Barasa Joel (2016). The anti-inflammatory activity of *Vernonia amygdalina* in oral hygiene.
18. Ninsiima Lennie Angella (2016). Analgesic and anti-inflammatory activity of the ethanolic extract of *Synedrella nodiflora* and *Placranthus* sp.
19. Adiya Robert (2015). Prevalence of Tuberculosis among inmates of Murchison Bay and Remand prison.
20. Kisense Samson (2015); Qualitative phytochemical analysis of crude extracts of *Aristolochia elegans* seeds.
21. Mugabirwe Sandra (2015). A selective phytochemical analysis of medicinal properties of *Mondia whitei*.
22. Tumusiime Gerald (2015). Determination of Antibacterial activity of the Rhizome extracts of *Zingber officinale* and *Aframomum angustifolium* against *Salmonella typhi*.
23. Kalabika Enock (2015). Effect of selected antimalarial plants on Rabbit Uterine Contractility.
24. Ampeire Yona (2011). The antimicrobial activity of *Maesa lanceolata* against *Pseudomonas* spp and *E. coli*.

Fd): MEMBER TO VIVA-VOCE EXAMINATION PANELS AND DOCTORAL COMMITTEES

Have been part of over twenty; doctoral committees, dissertations/ theses examinations and viva voce examinations.

G: RESOURCE MOBILISATION/ AWARD/GRANTS/RESEARCH PROJECTS AND CONSULTANCIES UNDERTAKEN

- | | |
|---------------------|---|
| 2016 | Principal investigator, Market potential of Ugandan Natural Health products. |
| 2013 -2015: | Principal investigator; Retrospective Treatment Outcome of antimalarial herbs in Uganda. |
| 2011-2013: | Team leader; the role of indigenous knowledge in conservation of medicinal plants in Uganda – NEMA |
| 2011-2012: | National Task force member – Project development on conservation and sustainable use of the threatened savanna woodland in the Kidepo critical landscape in north eastern Uganda-GOU-GEF-UNDP Project |
| 2009 - 2010: | Team leader; Building capacity to develop plant based repellents for low cost sustainable malaria control in Bunghokho Sub-county, Mbale District-UWCM |
| June 2004- To date: | General Research in Herbal/ Traditional Medicine in Uganda; including formulation and policy guidelines. |

- January 2004-2009: Principal investigator: Documentation, Efficacy, Safety profile and phytochemical investigation of some plants used for traditional treatment of malaria in Western Uganda.
- June 2007-2008: Immune boosting properties of Ugandan formula used locally for management of HIV/AIDS.
- 1996-1997: Principal investigator: The bioactivity of *Justicia betonica* L. with specific reference on its *in vitro* antimalarial properties.
- 1998: Team member: An inventory of the Aquatic Macrophytes on some parts of L. Kyoga and L. Victoria.

H. RESOURCE MOBILISATION AND GRANTS WON:

- 1) PI: Institutional Capacity building on implementation of the Nagoya protocol on access and Benefit Sharing in Uganda. Project component 100,000 USD worth (2023-2025).
- 2) PI: RIF 2- Developing acaricide from novel molecules from Ugandan herbs- Category 3, about 100,00
- 3) 0,000 million Uganda shillings-2019-2022.
- 4) PI; Retrospective treatment outcome of antimalarial herbs in Nyakayoojo, Mbarara district, Uganda (HS 1838) - 2000 Euros-2015. Component under the Multi-disciplinary University Traditional Health Initiative (MUTHI): Building sustainable Research Capacity on Plants for better public Health in Africa, EU funded, 7th Research Framework, Grant agreement No. 266005, Euros 169,312,
- 5) National Task force member – Project development on conservation and sustainable use of the threatened savanna woodland in the Kidepo critical landscape in north eastern Uganda-GOU-GEF-UNDP Project 2011-2012.
- 6) PI: LAMPS- Building capacity of local communities in Bunghoko in development of a mosquito repellent at house hold level, Uganda Women Concern Ministry, Mbale District, Uganda.2009-2010.
- 7) VICRES-PhD Scholarship, Department of Pharmacology (CHS)-2004-2006
- 8) NUFU -PhD Scholarship, Department of Pharmacology (CHS) -2004-2008

I.REVEIWER

1. Research and Innovation Funds projects, Makerere University, since 2018 to date
2. Uganda National Council of Science and Technology-Periodical Clinical trial herbal medicines project reviews.
3. Secretary; Scientific advisory committee(SAC) on Herbal Medicine clinical trials
4. Member AGM Theta Uganda

J.AWARD

Fellow Uganda National Academy of Sciences (FUNAS) Award-2020. For the outstanding contribution to the field of Biological Sciences.

H: INTERNATIONAL AND DOMESTIC CONFERENCES, SEMINARS AND WORKSHOPS

a) WORKSHOP/ SEMINARS ORGANISED/CONVENED

1. International society of Ethnobiologists (ISE) in Kampala, Uganda 2015.
2. Member organizing committee Natural Products Research for East and Central Africa (NAPRECA) 2000, Kampala Uganda.
3. Team member, Training of PhD Supervisors Course seminars; Makerere University since 2016 to date.
4. Member organizing committee, 1st and 2nd Annual National Traditional Medicine Conference held at Hotel African; Kampala
5. Team leader organizing the, Stakeholders Mapping Workshop on Access to Genetic Resources and Benefits Sharing (ABS) November 2023, Makerere University, Kampala.

b) SELECTED PAPERS PRESENTED AT CONFERENCES

1. Cytotoxicity of selected Ugandan plants against cancer of the breast, Natural Products Research Network for Eastern and Central Africa, Makerere University, Uganda, 2022.
2. NERLP MINI SYMPOSIUM ON Mycobacteria Rhomboid Proteases and Drug Discovery; Pharmacy Department College of Health Sciences, October 2019.
3. Tenth Pan-African Workshop on Access and Benefit-sharing; Sharing experiences, Hosted by Direction des Parcs Nationaux du Sénégal, Dakar, Senegal, 2017.
4. Biodiversity for Sustainable Development for Beauty, Health & Food” 2016, Paris, France.
5. Sourcing and innovation for people and biodiversity” organized by the Union for Ethical BioTrade (UEBT) 31 May to 2 June 2017, Paris, France
6. Efficacy of selected antimalarial plants of Uganda, at the 15th Congress of the International Society of Ethnobiology. Makerere University, Kampala

c) TRAINING WORKSHOPS ATTENDED

- 2020: Certificate in Access and Benefit Sharing- Understanding Resources and User sectors, in Windhoek, Namibia.
- 2017: Certificate of participation in the Graduate Supervision and Mentorship Course conducted by Makerere University in participation with Uppsala University-Sweden, Sponsored by SIDA.
- 2017: Certificate of attendance; Human Subjects Protection Course (HSPC) at Makerere University, Organized by the National Council for Science and Technology.
- 2017: Certificate of attendance; Ninth annual Research ethics conference; on effective collaboration in Research: Promoting Mutual and Equitable Partnerships.
- 2017: Certificate of attendance in Training of Trainers for strengthening Institutional capacity for Research Administration in Uganda (SICRA); by the Makerere University Walter Reed Project.

- 2016: Certificate in Theory and Practice of Phylogenetic course organized by Makerere University in collaboration with Colorado State University.
- 2017: Certificate of attendance in Basic Grant Writing Workshop organized by the Walter reed project; Uganda.
- 2016: Certificate; African Training Workshop on Community Protocols, Indicators on Traditional Knowledge and Customary Sustainable Use; Convention on Biological Diversity; Nairobi Kenya.
- 2016: Certificate of attendance for successfully attending the Eighth Annual National Research Ethics Conference at Serena Hotel., by the Uganda National Council for Science and Technology.
- 2016: Certificate of Attendance for successfully completing a course in Strengthening Institutional Capacity for Research Administration in Uganda (SICRA) Basic Grant writing workshop by the Makerere University Walter reed Project.
- 2016: Certificate of participation towards successful organization of the 15th Congress of the International Society of Ethnobiology, Kampala, Uganda.
- 2016: Certificate of attendance in the 15th Congress of the International Society of Ethnobiology, Makerere University, Kampala.
- 2016: Certificate of Participation in Enhancing Graduate Supervision and Mentorship training course, at the department of Pharmacy, by the Directorate of Quality Assurance (QAD), Makerere University.
- 2016: Certificate of participation in the Training of Trainers Course in Didactics and Student Mentorship at Makerere University.
- 2015: Certificate of Participation in training course in Supervision and Mentorship by Makerere University directorate of research and Graduate training, Royal Suites; Bugolobi, Kampala.
- 2015: Certificate of participation in the 3rd Annual National Traditional Medicine Conference; at Hotel Africana.
- 2014: Certificate of recognition for organizing the 2nd Annual National Traditional Medicine Conference held at Hotel African; Kampala.
- 2012: Certificate of recognition in valuable participation in the Development of the National Clearing House Mechanism for Uganda and Preparation of Experts Reports.
- 2010: Certificate in managing employee Relations at the Workplace by HR & Management Agency LTD.
- 2010: Certificate in Project Monitoring and Evaluation; by HR & Management Agency LTD, Kampala.

- 2009: Certificate in Data Management using Epidata Software, organized by College of Health Sciences, Makerere University.
- 2009: Certificate in Procurement & Supply Chain Management; by HR & Management Agency LTD.
- 2008: Certificate in Sundoulos African Leaders Training Program.
- 2008: Participated in the East African regional Project on the Global Strategy for Plant Conservation Training on Medicinal Plants Databases at Lukenya Getaway, Kenya.
- 2008: Certificate in Information Management and Biodiversity Informatics.
- 2007: Certificate in Supervisory Skills Enhancement for human resource Management; by HR & Management Agency LTD.
- 2007: Certificate in African Laboratory for natural products (ALNAP). The short course workshop was on how to conduct research in Natural Products in order to upgrade capabilities on different research techniques used in natural product research. NAPRECA: Kampala.
- 2007: Certificate in Data analysis course organized by the Uganda Society of Health Sciences. College of Health Sciences, Makerere University.
- 2006: Certificate in scientific writing by Makerere University (MUK) and University of Alabama at Birmingham International Centres for Excellence in Research (ICER) Training Program.
- 2006: Certificate in Qualitative research and Community Based Participatory Research Methods by MUK & ICER.
- 1999: Certificate EARTHWATCH fellowship programme “Taita Hills Botanical Survey-Kenya, Supported by the European Commission.
- 1998: Certificate in Phytochemistry and structure elucidation of organic compounds by Natural Products of East and Central Africa (NAPRECA) summer School Dar-salaam, Tanzania.

I: MEMBERSHIP TO UNIVERSITY AND OTHER NATIONAL AND INTERNATIONAL COMMITTEES/ ORGANISATIONS

1. Secretary to the National Scientific Advisory Committee (SAC) for the clinical Trials on Natural Therapeutics (CONAT), Uganda
2. Member National Biodiversity Stakeholders Committee. National Environmental Management Authority, Uganda, 2014 to date.
3. Member Project Management Committee. Institutional capacity strengthening for implementation of the Nagoya protocol on access to genetic resources and benefit sharing in Uganda (abs project)-2022 to date.

4. Member, Post Graduate Research Committee, School of Biological Sciences, College of Natural Sciences, Makerere University-served 4 years from 2014 to 2019.
5. Member- Natural Products Research for east and Central Africa (NAPRECA) since 1998 to date.
6. Member- International society of Ethnobiologists (ISE) since 2015 to date
7. Examiner (setting and marking) mature age entry examinations Makerere University-served for over four years.

J: COMMUNITY AND PROFESSIONAL SERVICES OFFERED

- Co-Chair, National preparatory Team: Twenty Sixth meeting of Subsidiary Body on Scientific, Technical and Technological Advice (SBSTTA) and the fourth meeting of the subsidiary body on implementation (SBI-4). May 2024 at UNEP Nairobi.
- Member- Core Team to align the NBSAPII to the GBF 2023, Source of the Nile Hotel in Jinja City.
- Chair Department of Plant Sciences, Microbiology and Biotechnology; 1st April 2022 to October 2022.
- Facilitator. Training of PhD Supervisors Course; Makerere University in collaboration with University of Upssala, Oslo 2016 to date.
- Member National Biodiversity Stakeholders Committee. National Environmental Management Authority, Uganda 2014 to date.
- Vice Chairperson AWIST governing Council, West Ankole Diocese, 2014 to date.
- Vice Chairperson, Research Ethical Committee, Traditional together with Modern Medicine Health Practitioners in Management of HIV (THETA) 2015-2018.
- Chair Person, Strategic Planning Committee; Uganda Pharmacological Society 2012.
- Member, Post Graduate Research Committee, School of Biological Sciences, College of Natural Sciences, Makerere University 2014-2018.
- Member, National Natural Resource Data and Information Sharing Committee-UGABIF 2011-todate
- Counseling and career guidance of Undergraduate students.
- Community advisor and creation of awareness on health benefits of indigenous health foods, Phytonutraceuticals and Medicinal Plants of Uganda.
- Capacity building in Bunghoko Sub County, Mbale District, to formulate a natural mosquito repellent produced and utilized at household level in a bid to fight malaria; project was successful and can be rolled out to other communities.

K). EMPLOYMENT RECORD

- 2018-todate: Senior Lecturer in the Department of Plant Sciences, Microbiology and Biotechnology College of Natural Sciences, Makerere University-Teaching Plant systematics, Pharmacognosy, Biochemicals in Drug Development and Natural Plant Products research and Development.
- 2014-2018: Lecturer in the Department of Plant Sciences, Microbiology and Biotechnology College of Natural Sciences, Makerere University-Teaching Plant systematics, Ethnobotany, Plant Chemicals as Pharmaceutical compounds and Natural Plant Products Research and Development.
- 2011- 2014: Principal Research Officer, Natural Chemotherapeutics Research Institute–Uganda National Health Research Organization (UNHRO)-Ministry of Health. **On accelerated promotion.**
- 2003-2011: Research Officer, Natural Chemotherapeutics Research Laboratory - Ministry of Health.
- 2004-todate: Part-Time Lecturer in the Department of Pharmacy College of Health Sciences, Makerere University- Teaching Pharmacognosy (Plant taxonomy and Natural Medicine/drug development)
- 2005- 2012: Part-Time Lecturer in the Department of Pharmacology and Therapeutics, College of Health Sciences, Makerere University - Teaching Phytopharmacology
- 2001-2003: Lecturer, Department of Biology, Faculty of Science with Education, Mbarara University of Science and Technology-Teaching Plant systematics,
- 1997-2001: Part-time lecturer, Kyambogo University- Teaching Plant taxonomy, Natural Chemotherapeutics, microbiology and histological techniques.
- 1995: Worked as graduate assistant in the National Herbarium, Makerere University.

L: COUNTRIES VISITED

Kenya, Tanzania, Ethiopia, Mozambique, India, Senegal, South Africa, Israel, France, Sweden, Namibia, Zimbabwe.

D). REFEREES

1. Prof. Paul Edward Tebakyagenda Mugambi
Executive Director
Uganda Vice Chancellors' Forum
Muyenga, Uganda
2. Prof. Jasper Ogwal-Okeng
Vice Chancellor,
Lira University, P. O. Box 1035, Lira Uganda
3. Prof. Waako Paul
C/O Vice Chancellor, Busitema University

P. O. Box 236, Tororo, Uganda.

4. Prof. Mucunguzi Patrick
C/O Department of Plant Sciences, Microbiology and Biotechnology
College of Natural Sciences, Makerere University

Attestation:

I certify that the information stated above is true to the best of my knowledge.

FUNAS: Katuura Esther (PhD)