

CURRICULUM VITAE



Dr Margaret Mwhaki Nganga

Kenyatta University

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RESEARCH INTEREST

Bioassay guided isolation and characterization of natural products with emphasis on antimicrobials, antimalarial, anticancer and antidiabetic, synthesis and semi synthesis of natural products, Essential Oils; Extraction and Chemical Profile Analysis and determination of their pharmacological activities; Ethno-botanical Management of Brown Ear tick *Rhipicephalus appendiculatus*. Application of chemical ecology in the control of ticks and tsetse flies through structural activity studies of potential repellents, Water remediation studies using agricultural wastes as adsorbents; studies of soil, plant nutrients and adsorption chemistry in pursuit of sustainable agriculture practices; Use of modified adsorbents in agricultural practices to improve food security; Isolation and characterization of various mycotoxin; Management of Fungal metabolites (Mycotoxins and Ochratoxins) using ethnobotanicals

Mentorship Statement: Dr Margaret Nganga is passionate about mentorship of young men and women. My mentorship style is empowerment-oriented, culturally sensitive, holistic, compassionate and excellence driven. I have been a mentor for over 20 years in the world of academia /research for both undergraduate and graduate students. I have extensive experience in mentorship for the youth especially for the girls in STEM. I spearhead mentorship program as a Chairperson of Board of Management of St Alexis Ruchu girls with over 1000 girls and as a board member of OLR Mugoiri Girls high school board of management in-charge of academics. I have acquired training and coaching in Transformational Leadership from Africa Center for Transformative and Inclusive Leadership (ACTIL). I am extremely proud of the diversity and large number of the graduate students whom I have mentored and of their impressive research and career success.

PERSONAL INFORMATION

Name: Margaret Mwhaki Nganga

Nationality: Kenyan

Designation: Senior Lecturer

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1. EDUCATION BACKGROUND

Academic Qualifications

- 2008** Ph.D., Natural Products Chemistry, Kenyatta University
Thesis Topic: Isolation and characterization of antimalarial compounds from selected medicinal plants used in Kenya
- 1999** Master of Science (Chemistry), Kenyatta School
Topic: Determination of aflatoxins in alcoholic beverages and their raw materials
- 1995** Bachelor of Education (Science-Maths and Chemistry), 1st Class Honors, Kenyatta University

2. PROFESSIONAL QUALIFICATION

- 2021:** Online training on Digital Literacy Lab for Educators in Global Perspective
- 2021:** Transformational Leadership Mentoring **Online Training by** Africa Center for Transformative and Inclusive Leadership (ACTIL)
- 2020:** Introduction to Design thinking; online course by Collaboration for Entrepreneurial Universities sponsored by DAAD on behalf of Federal Ministry for Economic Cooperation and Development, Germany
- 2019:** "Research Writing in the Sciences" online course by the AuthorAID project of International Network for Advancing Science and Policy (INASP), an international development organization in the UK.

3. WORKING EXPERIENCE

- March 2015 - To **Senior Lecturer, Kenyatta University**
date: Teaching undergraduate and Postgraduate students organic and Analytical Chemistry; Co-ordinating Postgraduate activities.; Engaged as a Departmental coordinator of African Development Bank / Ministry of Higher Education grant for training 30 Postgraduate students. Appointed as Mentor of 25 undergraduate and 10 postgraduate students
- Feb 1999 – Feb 2015: **Lecturer, Kenyatta University (KU)**
Teaching Undergraduate and Postgraduate students
Mentoring undergraduates
- 2000-2002: AVU Chemistry Course Facilitator (KU)
Teaching Chemistry
- 1999-September 2008: Tutorial fellow
- Jan1997-November 1999: Graduate Assistant

4. AWARDS AND FELLOWSHIPS

- May -Aug 2010: Seeding Labs–NIBR Fellows
Novartis Institute of Biomedical Research (NIBR) Boston USA

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2004 – 2008: PhD Training Scholarship
In country DAAD Scholarship with 6 months research Visit at Paderborn University, Germany

5. RESEARCH GRANTS

2012 (PI): Grand Challenges Canada (GCC) grant (PI) (Reference Grant number 0153-01 Amount: CAN \$100,000

Research Title: Development of low-cost diagnostic devices from locally available materials that biodegrade and can be incinerated

2014 (PI): Kenyatta University Research grant (KU/DVCR/VCG/VOL 1/ 50) (PI) 2014 Amount: Ksh 250,000

Research Title: Structure-repellence studies of δ octalactone analogues and blends against *Glossina pallidipes* and *Glossina morsitans morsitans* tsetse flies.

2010 (PI) ST & I Women Scientists Grant (NCST/5/003/w44) (PI), 2010

Project Title: Development of simple on-host behavioral manipulation tactics of controlling *R. appendiculatus*, the vector of the cattle disease east coast fever

National Research FUNDS (NRF) Co PI Benson Mureithi Wachira (**I84/30686/2015**)

Research Title: Behavioral and Chemosensory gene expression studies of Octalactone analogues and blends against selected savannah and riverine tsetse flies: Amount Ksh 1,500,000

Margaret Wangechi Kariuki (**I84/32241/2015**)

Research Title: Development and on -host evaluation of controlled -release formulations of optimized potent repellents or blends against *Rhipicephalus Appendiculatus*. Amount Ksh 1,570,000

Peter Muchoki Githinji (**I84/32243/2015**)

Research Title: Bioactive principles from selected herbal plants used for treatment of malaria in Kilifi County Amount Ksh 1,249,812

Samuel Njuguna Nyamu (Reg No: **I84/32254/2015**)

Research Title: Synthesis and spectrophotometric activity of phthalocyanine conjugated to metal nanoparticles and evaluation of their antimicrobial properties against resistant microbes Amount: Ksh 900,000

Francis Maingi Mukora **I84/33102/2015**

Research Title: Functionalized geopolymers derived from common clay and rice husk ash for application in adsorption of heavy metals and colour” **Amount Ksh 1,700,000**

NRF/PHD/02/40 Kipyegon Ngeno (**Reg No. I84/32250/2015**)

Elucidation of Antimicrobial and antioxidant secondary metabolites isolated from selected medicinal plants used by Kipsigis community Amount Ksh 600,000

NRF/PhD/02/44/2020 /2021 Kaimeti Constantine Mbithi **I84/32256/2015**

Anti-cancer, Antimicrobial and Antioxidant Screening of Compounds from Selected Medicinal Plants Used in Makueni County Ksh.597,270

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6. LIST OF PUBLICATIONS

1. Margaret W. Kariuki, Ahmed Hassanali, and **Margaret M. Ng'ang'a** (2022). Nanoencapsulation of 4-propylguaiacol in β -cyclodextrin, ethyl cellulose, and polyvinylpyrrolidone. *Journal of Chemistry*; Volume 2022 |Article ID 6590850 <https://doi.org/10.1155/2022/6590850>
2. Juliet Ochola, Laura Cortada, Onesmus Mwaura¹, Meklit Tariku, Shawn A. Christensen, **Margaret Ng'ang'a**, Ahmed Hassanali, Tahira Pirzada, Saad Khan, Lokendra Pal, Reny Mathew, Dick Guenther, Eric Davis, Tim Sit, Danny, Charles Opperman, and Baldwyn Torto (2022). Wrap-and-plant technology to manage sustainably potato cyst nematodes in East Africa. *Nature Sustainability*, VOLMay 2022 425–433. www.nature.com/natsustain.
3. Ruth Kihika-Opanda, David P. Tchouassi, **Margaret M. Ng'ang'a**, John J. Beck, and Baldwyn Torto Chemo-Ecological Insights into the Use of the Non-Host Plant Vegetable Black-Jack to Protect Two Susceptible Solanaceous Crops from Root-Knot Nematode Parasitism. *J. Agric. Food Chem.* 2022, 70, 22, 6658–6669. Publication Date May 25, 2022 <https://doi.org/10.1021/acs.jafc.2c01748>
4. Wairagu, N. W., Wachira, B. M., Githiomi, J. K., Oduor, N., & **Ng'ang'a, M. M.** (2022). Repellency and Toxicity of Selected Fractions, Identified Compounds and Blends of *Commiphora africana* Resin against bedbugs. *Natural Product Communications*, 17(6), 1934578X221106898. <https://journals.sagepub.com/doi/full/10.1177/1934578X221106898>
5. Benson Wachira, Joy M. Kabaka, Sylvance O. Okoth **Margaret Nganga**, Robert Changasi, Patrick Obore, Benard Ochieng', Grace A. Murilla, Ahmed Hassanali (2021). Characterization of a composite with enhanced attraction to savannah tsetse flies from constituents or analogues of tsetse refractory waterbuck (*Kobus defassa*) body odor'. *Plos Neglected Tropical Disease*. June 1, 2021 <https://journals.plos.org/plosntds/article/peerReview?id=10.1371/journal.pntd.0009474>
6. **Margaret Nganga**, Mary Wanjiku Nyangi, Elizabeth Mumbi Kigondu, Beatrice Irungu, Anthony Gachanja; et al. (2021), Integrity, Use and Care of Long-Lasting Insecticidal Nets in Kirinyaga County, Kenya *BMC Public Health* *BMC Public Health* **21**:856 <https://doi.org/10.1186/s12889-021-10882-x>.
7. Mary Juliet Ochola, Laura Cortada, **Margaret Ng'ang'a**, Ahmed Hassanali, Danny Coyne and Baldwyn Torto (2020). Mediation of Potato–Potato Cyst Nematode, *G. rostochiensis* Interaction by Specific Root Exudate Compounds. *Frontier Plant Science.*, **10 June, 2020** <https://pubmed.ncbi.nlm.nih.gov/32587595/>
8. Juliet Ochola, Danny Coyne, Laura Cortada, Solveig Haukeland, **Margaret Ng'ang'a**, Ahmed Hassanali, Charles Opperman and Baldwyn Torto (2020). Cyst nematode bio-communication with plants: implications for novel management approach. *Pest*

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Management

Science

DOI

10.1002/ps.6105

<https://pubmed.ncbi.nlm.nih.gov/32985781/>

9. Ruth Kihika, David P. Tchouassi, **Margaret M. Ng'ang'a**, David R. Hall, John J. Beck, and Baldwyn Torto (2020). Compounds Associated with Infection by the Root-Knot Nematode, *Meloidogyne javanica*, Influence the Ability of Infective Juveniles to Recognize Host Plants. *J. Agric. Food Chem* 68 (34), 9100-9109. <https://dx.doi.org/10.1021/acs.jafc.0c03386>
10. David O. Ywaya, Michael A. Birkett, John A. Pickett, John B. Ochola, Lwande, Wilber, Benson M. Wachira, Ahmed Hassanali and **Margaret M. Ng'ang'a** (2020). Repellency and Composition of Essential Oils of Selected Ethnobotanical Plants Used in Western Kenya against Bites of *Anopheles gambiae* Sensu Stricto. *Journal of Essential Oil-Bearing Plants*, 23:3, 432-441, DOI: 10.1080/0972060X.2020.1780954. <https://www.tandfonline.com/doi/abs/10.1080/0972060X.2020.1780954>
11. Ephantus G. Ndirangu¹, Sylvia A. Opiyo and **Margaret W. Ng'ang'a** (2020). Chemical composition and repellency of *Nigella sativa* L. seed essential oil against *Anopheles gambiae* sensu stricto. *Trends in Phytochemical Research* (TPR) 4(2) 2020 77-84. http://tpr.iau-shahrood.ac.ir/article_672458.html
12. Mulwa, P., Njue, W., and **Ng'ang'a, M** (2020) Assessment of L-Citrulline, L-Arginine and L Glutamic Acid Content in Selected Fruits, Vegetables, Seeds, and Nuts Sold in Markets in Nairobi City County, Kenya. *European Journal of Agriculture and Food Sciences*, 2(5). <https://doi.org/10.24018/ejfood.2020.2.5>
13. <https://www.ejfood.org/index.php/ejfood/article/view/100>
14. Benson M. Wachira, Joy M. Kabaka, Paul O. Mireji, Sylvance O. Okoth, **Margaret M. Ng'ang'a**, Grace A. Murilla, Ahmed Hassanali (2020). Blending studies with selected waterbuck odor constituents or analogues in the development of a potent repellent blend against savannah tsetse. *Acta Tropica* 211 (2020) 105597. <https://journals.plos.org/plosntds/article?id=10.1371/journal.pntd.0009474>
15. Lilian C. Koech, Beatrice N. Irungu, **Margaret M. Ng'ang'a**, Joyce M. Ondicho, and Lucia K. Keter (2020). Quality and Brands of Amoxicillin Formulations in Nairobi, Kenya. *Hindawi BioMed Research International*, Volume 2020, Article ID 7091278, 14 pages <https://www.hindawi.com/journals/bmri/2020/7091278/>
16. Ngari Ann G, Omolo Maurice O, Tarus Paul K, **Ng'ang'a Margaret M**, and Hassanali Ahmed. Chemical compositions of smoke volatiles of some Kenyan *Ocimum* species. *Journal of Pharmacognosy and Phytochemistry* 2020; 9(1): 1871-1879.
17. <https://www.phytojournal.com/archives/2020/vol9issue1/PartAF/8-6-172-185.pdf>
18. Kibiwott Jepkorir Scholar, **Ng'ang'a Mwhaki Margaret**, and Ngugi Mathew Pier 2020. In vitro antioxidant activities of *Carissa edulis* Vahl and *Caesalpinia volkensii* Harms

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extracts. *African Journal of Biochemistry Research* Received: 04 February 2020
Accepted: 19 March 2020 (in press)

19. Peter Muchoki Githinji, Jeremiah Waweru Gathirwa, **Margaret Mwihaki Ng'ang'a**, Alex King'ori Machocho (2020). Triterpenoids from *Grewia plagiophylla* K. Schum. *Pharmacognosy Communication*. 2020 ;10 (3) 130 -1 33.
<https://www.phcogcommn.org/content/267>
20. Peter Muchoki Githinji, Jeremiah Waweru Gathirwa, **Margret Mwihaki Ng'ang'a**, Alex King'ori Machocho, (2020). Triterpenoids from *Grewia plagiophylla*. *Pharmacognosy Communication*. **2020;10 (2):102-107**.
<https://www.phcogcommn.org/content/267>
21. Constantine Kameti, Dr. Henry Mwangi, **Dr. Margaret Ng'ang'a** (2020). In Vitro Anticancer, Antimicrobial and Antioxidant Screening of Compounds from *Ricinus Communis* Linn: A Review. *World Journal of Research and Review (WJRR)* ISSN: 2455-3956, Volume-11, Issue-5, November 2020 Pages 04-11
https://www.academia.edu/81553749/In_Vitro_Anticancer_Antimicrobial_and_Antioxidant_Screening_Of_Compounds_from_Ricinus_Communis_Linn_A_Review
22. F Maingi, **M Mwihaki Ng'ang'a**, HM Mbuvi, H Mwangi, (2019) Clay-Rice Husk Ash based Geopolymers for Remediation of Pb (II) and Cd (II) from Wastewater, **Egerton Journal of Science and Technology** **17 (1-139), 15-28**.
23. Josephine E. Mwihaki, Harun Mbuvi, **Margaret Mwihaki**, (2019) Derivatization of Papyrus Reeds for Use as a Super Absorbance Mulch Substrate, *International Journal of Science and Research (IJSR)* **8 (3), 1353 – 1363**.
<https://ir-library.ku.ac.ke/handle/123456789/20776>
- 24.
25. Ngari Ann G, Omolo Maurice V, Tarus Paul K, **Ng'ang'a Margaret M**, and Hassanali Ahmed (2019). Chemical compositions of fresh volatiles aromas of some Kenyan *Ocimum* species. *Journal of Pharmacognosy and Phytochemistry*; **8(6): 201-208**.
<https://www.essencejournal.com/pdf/2019/vol7issue3/PartA/7-3-4-288.pdf>
26. Ngari Ann G, Omolo Maurice V, Tarus Paul K, **Ng'ang'a Margaret M** and Hassanali Ahmed (2019) Chemical compositions of essential oils of some Kenyan *Ocimum* species. *American Journal of Essential Oils and Natural Products*; **7(3): 17-26**.
<https://www.essencejournal.com/pdf/2019/vol7issue3/PartA/7-3-4-288.pdf>
27. T. J. Shikorire G. O. Asudi, **M. M. Ng'ang'a**, G. Kirubi & A. Hassanali (2019). Analysis of emission profiles from charcoal produced from selected tree species by different pyrolysis methods. *International Journal of Environmental Science and*

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Technology 16, 5995-6004. <https://link.springer.com/article/10.1007/s13762-019-02220-x>

28. S. N. Nyamu, L. Ombaka, E Masika and **M. Ng'ang'a** (2019), One pot microwave assisted synthesis of size dependent glutathione capped spherical silver nanoparticles suitable for materials with antibacterial properties. *Interdisciplinary Nanomedicine* 4 (3) 86-94. <https://onlinelibrary.wiley.com/doi/full/10.1002/jin2.62>
29. F.M. Maingi, **M. M. Ng'ang'a**, H. Mwangi, H. M. Mbuvi and A. Abdulhameed (2018). Thermodynamic, Kinetic and Equilibrium Studies of Pb (II) ions adsorption using ordinary clay/rice husk ash based geopolymers. *IOSR Journal of Applied Chemistry (IOSR-JAC)* e-ISSN: 2278-5736. Volume 11, Issue 8 Ver. 1 (August. 2018), PP 46-54. <https://www.iosrjournals.org/iosr-jac/papers/vol11-issue8/Version-1/G1108014654.pdf>
30. Samuel N. Nyamu, Lucy Ombaka, Eric Masika, and **Margaret Ng'ang'a** (2018). Antimicrobial Photodynamic Activity of Phthalocyanine Derivatives. *Advances in Chemistry*: Article ID 2598062: <https://doi.org/10.1155/2018/2598062>. <https://www.hindawi.com/journals/ac/2018/2598062/>
31. Margaret W. Kariuki, Ahmed Hassanali, **Margaret M Nganga** (2018). Characterization of cattle anal odor constituents associated with the repellency of *Rhipicephalus appendiculatus*. *Experimental and Applied Acarology* 76: 221-227. <https://pubmed.ncbi.nlm.nih.gov/30298229/>
32. F. M. Maingi, H. M. Mbuvi, **M. M. Ng'ang'a**, H. Mwangi (2018). Adsorption of Cadmium Ions on Geopolymers Derived from Ordinary Clay and Rice Husk Ash *International Journal of Materials and Chemistry*, 8(1): 1-9. DOI: 10.5923/j.ijmc.20180801.01. <http://article.sapub.org/10.5923.j.ijmc.20180801.01.html>
33. Hannah N. Wamakima, Peter G. Kirira, **Margaret M. Nganga**, Winnie R. Gimode, Brendon Naicker, Matshawendile Tukulula and Francis W. Muregi (2018). Synthesis and antiplasmodial Evaluation of A new trioxaquine. *European Journal of Pharmaceutical and Medical Research*, 5(5), 26-34 ISSN 2394-3211 https://www.ejpmr.com/home/abstract_id/3696
34. F. M. Maingi, H. M. Mbuvi, **M. M. Ng'ang'a** (2018). Aluminophosphates Derived from Tea Leaves and Pumpkin Seeds Ashes Adsorb Lead Ions from Contaminate. *Water Frontiers in Science* 2018, 8(1): 1-10. DOI: 10.5923/j.fs.20180801. <http://article.sapub.org/10.5923.j.fs.20180801.01.html>

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35. Margaret W Kariuki, Ahmed Hassanali, **Margaret M Ng'ang (2019)**. Structure-activity Studies on Analogues of 4-methylguaiaicol, a Cattle Anal Odour Constituent Repellent to the Brown Ear Tick (*Rhipicephalus Appendiculatus*. *Acta Tropica*; **194:78-81** PMID: **30922799**.
DOI: **10.1016/j.actatropica.2019.03.025**.
<https://doi.org/10.1016/j.actatropica.2019.03.025>
36. Ruth Kihika, Lucy K. Murungi, Danny Coyne, **Margaret Ng'ang'a**, Ahmed Hassanali, Peter E. A. Teal & Baldwyn Torto (2017). Parasitic nematode *Meloidogyne incognita* interactions with different *Capsicum annum* cultivars reveal the chemical constituents modulating root herbivory. *Scientific Reports* 7: 2903 DOI:10.1038 s41598-017-02379-8.
<https://pubmed.ncbi.nlm.nih.gov/28588235/>
37. Daniel Muvengei, Haron Mbuvi, **Margaret Ng'ang'a** (2017). Removal of Pb²⁺ and Cd²⁺ Ions, colour and turbidity from water using carbon and ash derived from maize cobs. *IOSR Journal of Applied Chemistry*. Volume 10, Issue 6 PP 58-68
<https://ir-library.ku.ac.ke/handle/123456789/18237?show=full>
38. Shylock O. Onduso, Margaret **M. Nganga**, Waceke Wanjohi, Ahmed Hassanali Determination of pyrrolizidine alkaloids levels in *Symphytum asperum*. *Biofarmasi J Nat Prod Biochem* Volume 15, Number 2, August 2017 E-ISSN: 2580-2550 Pages: 65-78 DOI: 10.13057/biofar/f150203.
<https://smujo.id/jnpb/article/view/2414>
39. M. Maingi, H. M. Mbuvi, **M. M. Ng'ang'a**, H. Mwangi (2017). Adsorption Kinetics and Isotherms of Methylene Blue by Geopolymers Derived from Common Clay and Rice Husk Ash *Physical Chemistry*, 7(4): 87-97. DOI: 10.5923/j.pc.20170704.02.
<http://article.sapub.org/10.5923.j.pc.20170704.02.html>
40. N. M. Ombuna, A. K. Machocho, **M. M. Ng'ang'a**, G. K. Keru, A. W. Wanyonyi and O. Amuka (2016). Stem bark extracts of *Erythrina excelsa* (BAK) and their biological activities. *Journal of Medicinal Plants Research* Vol. 10(39), pp. 686-694, 17, DOI: 10.5897/JMPR2016.6070
<https://academicjournals.org/journal/JMPR/article-full-text-pdf/2DDB8D761340>
41. F M. Mukora, HM Mbuvi, **MM Nganga** (2016). Remediation of water contaminated with Cr⁶⁺ and Cd²⁺ using aluminophosphates derived from ashes of tea leaves and pumpkins. *Chemistry and Material Research* 8 (7): 94-102.
https://www.academia.edu/27493639/Remediation_of_Water_Contaminated_with_Cr_6_and_Cd_2_Using_Aluminophosphates_Derived_from_Ashes_of_Tea_Leaves_and_Pumpkin_Seeds

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42. Stephanie Oyola-Reynoso, Dickson Kihereko, Boyce Chang, James Mwangi, Julian Halberstma-Black, Jean-Francis Bloch, Martin Thuo, **Margaret Nganga** (2016). Substituting Plastic Casings with Perfluorosilane treated paper improves Biodegradability of Low-Cost Diagnostic Devices: *Industrial Crops and products* 94:294-298. <https://www.sciencedirect.com/science/article/abs/pii/S0926669016305647>
43. Moses M Mbugua, **Margaret M. Nganga** and Harun M Mbuvi (2016). Removal of Lead ions and turbidity from waste water by adsorbent materials derived from Cactus leaves. *Journal of Natural Sciences Research* 6 (14): 63-72
44. Benson M. Wachira, Paul Mireji, Sylvance Okoth, **Margaret Nganga**, Julius M William, Grace Murilla and Ahmed Hassanali (2016). Responses of *Glossina morsitans morsitans* tsetse flies to analogues of δ -octalactone and selected blends. *Acta Tropica* 160: 53-57. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4899254/>
45. Nyamai DW, Muchugi A, **Ng'ang'a M**, Burugu MW (2015). Phytochemical Profile of *Prunus Africana* Stem Bark from Kenya. *Journal of Pharmacognosy and Natural Products* 1: 110. doi: 10.4172/jpnp.1000110.
<https://www.worldagroforestry.org/publication/phytochemical-profile-prunus-africana-stem-bark-kenya>
46. Nyamai DW, **Ng'ang'a M**. Burugu MW and Ramni Jamnadass (2015). Growth performance of domesticated *Prunus africana* population in Muguga, Kiambu County. *Biochemistry & Physiology*. 4:185. doi: 10.4172/2168- 9652.1000185
<https://www.worldagroforestry.org/publication/growth-performance-domesticated-prunus-africana-population-muguga-kiambu-county-kenya>
47. **Margaret Mwhiki Ng'ang'a**, Hidayat Hussain, Sumesh Chhabra Caroline Langat-Thoruwa, Karsten Krohn, Javid Hussain, Ahmed-Al- Harrasi, Ivan Robert (2012). Eucleanal: A new naphthalene derivative from *Euclea divinorum*. *Natural Products Communications* 7 (2): 193-194:
<https://journals.sagepub.com/doi/pdf/10.1177/1934578X1200700217>
48. **Margaret Mwhiki Ng'ang'a**, Hidayat Hussain, Sumesh Chhabra Caroline Langat-Thoruwa, Karsten Krohn, Javid Hussain, Ahmed-Al- Harrasi, Ivan Robert (2012). Eucleanal A and B: Two new naphthalene derivatives from *Euclea divinorum*. *Chinese Chemical Letters* 23: 576–578
<https://www.sciencedirect.com/science/article/abs/pii/S1001841712000253>

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49. **Margaret Mwhaki Ng'ang'a**, Hidayat Hussain, Sumesh Chhabra Caroline Langat-Thoruwa, Beatrice Irungu, Ahmed Al-Harrasi Muhammed Riaz, Karsten Krohn (2012). Antiplasmodial activity of compounds from *Drypetes gerrardi*. *Chemistry of Natural Compounds*. 48: No. 2 (Russian Original No. 2 March –April 2012)
50. **Margaret Mwhaki Ng'ang'a**, Hidayat Hussain, Sumesh Chhabra Caroline Langat-Thoruwa, Mohammed Riaz, Karsten Krohn, (2011). Drypetdimer A: A new flavones dimer from *Drypetes gerrardi*. *Natural Products Communications* 6: 1115-1116.
<https://journals.sagepub.com/doi/abs/10.1177/1934578X1100600816>
51. **Margaret Mwhaki Ng'ang'a**, Hidayat Hussain, Sumesh Chhabra Caroline Langat-Thoruwa, Karsten Krohn (2009). Chemical constituents from the root bark of *Ozoroa insignis*. *Biochemical Systematics and Ecology* 37: 116-119
<https://www.sciencedirect.com/science/article/pii/S0305197808001762?via%3Dihub>
52. **Margaret Mwhaki Ng'ang'a**, Sumesh Chhabra, Caroline Langat-Thoruwa, Hidayat Hussain Karsten Krohn (2008). Chemical constituents from the leaves of *Drypetes gerrardii*. *Biochemical Systematics and Ecology* 36: 320 – 322.
<https://ur.booksc.me/book/13336363/edd1d9>
53. **Margaret Mwhaki Nganga (2008)**. Isolation and characterization of antimalarial compounds from selected medicinal plants used in Kenya. PhD thesis, Kenyatta University
54. Wilson Njue, **Margaret Mwhaki Njuguna**, Richard Musau (1999). Determination of volatile impurities in alcoholic beverages using Gas-Liquid Chromatography. *International Journal of Biochemistry. Physics* 8: 44-47
55. Wilson Njue., **Margaret Mwhaki Njuguna**, Richard Musau (1999). Determination of aflatoxins in alcoholic beverages and in their raw material. *International Journal of Biochemistry. Physics* 8: 44-47

10. POSTGRADUATE SUPERVISION

10.1 COMPLETED PHD SUPERVISION

- **2021**: Nyamu Njuguna Samwel (I84/32254/2015): Synthesis and spectrophotometric activity of phthalocyanine conjugated to metal nanoparticles and evaluation of their antimicrobial properties against resistant microbes
- **2021**: Irene Githinji (I84/30671/2015); Quantification of ochratoxin-a in poultry feeds and products in kenya and the use of essential oils of *lippia*, *ocimum* and *toddalia* species as potential post-harvest protectant against the growth of *Aspergillus Ochraceus*

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- **2020:** Margaret Wangechi (I84/32240/2015); Development and on-host evaluation of controlled-release formulations of optimised potent repellents or blends against *Rhipicephalus appendiculatus*.
- **2019:** James Mwangi Njogu (I84/21452/2012); Fabrication of rapid diagnostic kit casing using degradable cellulosic material as an alternative to plastic.
- **2019:** Ann Ngare (SC/PHD/C/06/12); Chemical analysis, Determination of bee attractant properties and Application of Selected Ocimum plants' species for improved apiculture University of Eldoret.
- **2018:** Maingi M. Francis (I84/33102/2015).; Functionalized geopolymers derived from clay minerals and rice husk ash for application in heavy metal adsorption. Kenyatta University.
- **2018:** Benson Mureithi Wachira (I84/30686/2015); Structure repellency and chemosensory gene expression studies on δ -octalactone analogues and blends against tsetse flies *Glossina pallidipes*, *Glossina. KU*

10.2 ONGOING PHD SUPERVISION

1. Githinji Peter Muchoki (I84/32243/2015); Isolation and structural elucidation of antimalarial Compounds from selected plants used for treatment of malaria in Kilifi County. (**Thesis writing**)
2. Ruth Kihika (I84/39349/2017); Identification of allelochemicals and effectors regulating root knot nematode parasitism (**Given Notice of submission**)
3. Kaimeti Constantine Mbithi (I84/32256/2015); Anticancer, antimicrobial and antioxidant screening of compounds from selected medicinal plants used in Makeni County, Kenya (Lab work)
4. Ngeno Kipyegon (I84/32250/2015); Structure elucidation of secondary metabolites from selected medicinal plants with antimicrobial and antioxidant activity among Kipsigis Community (**Lab work**)
5. Mutai Joel (I84/32238/2015); Repellence and acancidal properties of selected plants of Rhamnaceal family ((**Lab work**))
6. Ephantus Ndirangu (I84/30619/2015); Anti-tuberculosis properties of phytochemicals derived from Kenyan medicinal plants, in combination with anti-tuberculosis drugs (**Lab work**)

10.3 COMPLETED MSC SUPERVISION

1. **2022:** Wairagu Norman Wachira (156/1276/2015); Repellency and toxicity of *Commiphora africana* in extract against *Cimex lectularius* and characterization of active constituents

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2. **2022:** Nyangi Mary Wanjiku (I56/37702/2016); Quality of artemisinin-based drugs and efficacy of insecticide treated nets for malaria control in Kirinyaga County
3. **2021** Juliet Akoth Ochola (I56/37035/2016); Elucidation of physico-chemical mechanism associated with banana paper in the management of potato cyst
4. **2021:** Josephine Mwihaki Mbugua (I56/32266/2015); Chemically Derivatized Papyrus reeds for High Water Retention Mulch Substrate
5. **2021:** Stephen Minda (I56EA/30646/2015); Peanut Husks Tethered with Sodium Bisulphite and Ethylene -1,2-Diamine for Removal of Pb²⁺ And Cr⁶⁺ Ions from Contaminated Water
6. **2020:** Ndambo Michael Mwashighadi (I56/CE/26148/2013); Electrochemical treatment of textile dye waste water by aluminium and stainless-steel electrodes
7. **2020:** Muoki John Sila, (I56/E/22218/10); Speciation of essential macronutrients in soils from selected farms of Matungulu, Machakos County, Kenya
8. **2020:** Rose Kagwiria (I56/CE/22778/2010); Effects of zeolitic materials derived from rice husks and water hyacinth ashes blended with bones on fluoride adsorption
9. **2019:** Lilian C. Koech (I56/29614/2014); Identification of active ingredients in amoxicillin and co-trimoxazole antibiotics sourced from pharmacies in Nairobi *County*.
10. **2019:** Peninah Mueni (I56/29384/2014); Assessment of citrulline in cucurbitas, fruits/seeds, vegetables and nuts
11. **2018:** Kibiwott Scolar Jepkorir (I56/28828/2013); *In vitro* antioxidant activities of dichloromethane and methanolic blend extracts of *Carissa edulis* and *Caesalpinia volkensii*
12. **2018:** Titus Munyao Kasimu (I56/CE/21187/2012); Removal of turbidity, methylene blue and heavy metals from contaminated water using pyro-processed coconut shell and fiber.
13. **2017** Rawlings Werunga Kalenda (I56/25949/2013); A computational assessment of the stability of cocaine and the effect of various functional groups on the rate of cocaine hydrolysis
14. **2017:** Khaemba Wafula Bramuel (I56/20179/2012); On-host behavioural interactions between adult *Rhipicephalus appendiculatus* and characterisation of the mediating pheromonal signals
15. **2016:** Kihika, Ruth Muthoni (I56/22679/2012); Chemical ecology of pepper (*Capsicum annum*) and root knot nematode (*Meloidogyne incognita*) interactions

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16. **2016:** Jackson Obegi (I56/CE/24062/2012); Phytochemical composition and repellency of volatiles emitted by live potted *Mentha piperita* (PEPPERMINT) plants against *Anopheles gambiae* s
17. **2016:** Ombuna Naftal Momanyi (I56/CE/11215/2007); Isolation and characterization of antimicrobial compounds Erythrina species
18. **2016:** Njue Martin Kivuti (I56/CE/20531/2012); Using cilantro leaves and stems to remove lead, cadmium and turbidity from wastewater
19. **2016:** Ronald Nyakweba Otondi, (I56/20057/2012); Repellency studies on structural-electronic features of δ -octalactone analogues and blends against tsetse flies (*G. Pallidipes* and *G. morsitans*)
20. **2016:** Daniel Muvengei Mwangangi (I56/CE/21443/2010); Use of maize cobs derived products for removal of selected inorganic ions, colour and turbidity from contaminated water
21. **2015:** Benson Mureithi Wachira (I56/21434/2010); Structure-repellence studies of δ - octalactone analogues and blends against *Glossina pallidipes*
22. **2015:** Ndirangu Ephantus (I56/12775/09); Repellent and fumigant toxicity of nigella sativa seeds essential oil against mosquitoes and sandflies and identification of the active blend
23. **2015:** Tom Shikorire (N50/CTY/PT/23014/2011); Analysis of emission profiles from burning charcoal produced from different tree species by different pyrolysis methods
24. **2015:** Margaret Wambui Gicheru Njagi (I56/CE/21186/2012); Evaluation of zeolite synthesized from rice husk and sugarcane as potential adsorbent for Cd^{2+} , Pd^{2+} , turbidity and color
25. **2015:** Margret Wangeci (I56/15192/2008); Characterization of blend in cattle anal odour responsible for repellency against brown ear tick (*Rhipicephalus appendiculatus*), the vector for east coast fever
26. **2015:** Mbugua Moses Macharia (I56/22617/2011); Use of cactus biomass and its processed products in removal of colour, turbidity and selected metal ions from water
27. **2015:** Hellen Wambui Ngugi (I56/CE/21036/2012); Remediation of turbid water containing Pb^{2+} and Cd^{2+} ions using zeolite derived from rice husk and water hyacinth ashes

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28. **2015:** John Owuor Oyugi (I56/CE/21922/2012); Evaluation of the proximate, micronutrients and phytochemical analysis of selected medicinal plants in Mbita-Homabay county
29. **2015:** Wamakima Hannah Nyakio (I56/22613/201); Syntheses and antimalarial evaluation of quinoline-trioxane and quinoline-chemosensitizer hybrid drugs
30. **2015:** Dorothy Nyamai (I56/24138/2013); Growth performance and phytochemical profiles of *Prunus africana* sampled from Muguga, Kobujoi and Karuri, Kenya
31. **2014:** Kariuki, John Njuguna (I56/CE/22622/2011); Removal of turbidity, lead and cadmium ions from wastewaters using products derived from *Mangifera indica* kernel
32. **2014:** Shylock O. Onduso (I56/CE/15074/2008); Determination of levels of pyrrolizidine alkaloids in symphytum asperum growing in selected parts of Kenya
33. **2013:** David Otieno Ywaya (I56/15428/2009); Efficacy of repellency of essential oils of selected plants growing in western Kenya against *Anopheles gambiae*
34. **2013:** Muthengi Alex Mugwiria I56/22813/2011; Structure-activity studies of p-menthane -3,8-diol stereoisomers and analogues
35. **2012:** Bernard Makanga (I56/10090/2008); Repellency of *Tagetes minuta* essential oil selected from different agro-ecological zones in Kenya against brown ear tick (*Rhipicephalus appendiculatus*)
36. **2011:** William Julius Mwenda (I56/10088/2008); Selective monobenzoylation of 1,2-diols in water.

10.4 Ongoing Msc Supervision

- Samson W. Kuria (I56/CE/28711/2015); The use of heterogeneous catalyst prepared from environmentally benign materials in the trans-esterification of castor oil (**writing thesis**)
- Stephen Nyaga Nthiga (I56/CE/28641/2015); Speciation of nickel, chromium, lead and cadmium in dust obtained from around open-air automobile repair shops in Embu town, Kenya (**writing thesis**)
- Otieno Martin Okello (I56/CE/28765/2015); Determination of levels of saccharin and sodium benzoate in toothpaste sold in Siaya county, Kenya (**writing thesis**)
- Philomena Chepkirui (I56/CTY/PT/37734/2016); Determination of nevirapine levels in hair and matched plasma samples of hiv-1 infected individuals under antiretroviral therapy in Kenya (**writing thesis**)

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- Njau Zipporah Wangui (I56/30773/2015); Assessment of ivermectin residues in bovine milk and the susceptibility of ticks to the drug in Nyandarua Kenya (**writing thesis**)
- Nguru Joseph Muhiu (156/10089/2008); Studies on cattle ear odour blend responsible for attraction of *Rhipicephalus appendiculatus*, vector of cattle disease, east coast fever (not sure)
- Mwidadi Omar (156/27958/2014) Acrylamide Assessment by GC/MS in fried /baked potato food products in Central. Business district. Mombasa City (not Sure)
- Pauline Kamau (I56/CE/23845/2012); Optimizing conditions of carbonation of water hyacinth for removal of lead and cadmium ions from contaminated water for domestic and industrial use (not sure)

11. Examined Thesis

- Mary Kagika TH/188/2020: Antimicrobial activities and bioassay guided structural characterization of selected KENYAN Medicinal Plants, MSc, Kenyatta University
- Faith Karuma (Mth/082/2020): Determination of potassium acreage dosage requirements for optimum yields of maize in Kaaga, Meru County, MSc, Kenyatta University
- Bernadatte Moraa Ratemo, (I56/37034/2016): Microcapsulation of an optimized 4-component tsetse repellent blend into β -cyclodextrin and laboratory assessment of its efficacy, MSc Kenyatta University
- Nyingi Bonface Gitahi, Determination of Selected heavy metals in Water And fish samples from Lake Baringo, Kenya, MSc JKUAT.
- Flaure Rosette Ehawa, (I84F/29070/2013): Bioassay guided isolation and characterization from selected plants with ant-insect effects on *tuta Absoluta* (Meyrick), PHD Kenyatta University.
- Joseph Ochieng Odundo (I56/CE/14147/09) Quantification of artemesinin in cultivars and wildlings of *Artemisia annua* l. in western Kenyan soils, MSc, Kenyatta University
- Onyambu Zipporah Moraa (I56/CE/14149/09) Levels of selected heavy metals in *aloe vera* cosmetics sold in Nairobi County, Kenya, MSc, Kenyatta university
- Ombuna Dinah Nyaitondi (156/10365/2007) Antibacterial properties and GC-MS analysis of extracts and essential oils of selected plant products, MSc, Kenyatta University.
- Joel Mutai (I56/CE/11158/2006); Evaluation of selected botanicals and diatomaceous earth as maize protectant against *Sitophilus*, MSc, Kenyatta University.

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- Skudi Joseph Bwire (I56/13106/2005); Effectiveness of pH adjustment in lowering ions in alum treated grey water for mopping and laundry in Githurai, Kenya, MSc, Kenyatta University.
- Award Mohamed Mbarak (I56/10150/2004); Phytochemical and biological screening of *Ochna holtzii gilg.* from Kenyan coastal region, MSc, Kenyatta University.
- Stanley Irungu (I56/13105/2005); Isolation and characterization of antimicrobial compounds from the plants, *Erythrina abyssinica* and *Chasmanthera dependens*, MSc, Kenyatta University.
- Kihagi Regina Wamuyu;; Antibacterial, antifungal and phytochemical screening of the plant species *Lanea schweinfurthii* (ENGL.) ENGL. MSc, Kenyatta University.
- Adamu Abdulhameed (I56f/27069/2013); Synthesis of silicon nitride from rice husks and sugarcane bagasse ashes for adsorption of fluoride ions from waste water, MSc, Kenyatta University.
- Mbithi Justus Muema: Phytochemical and antimicrobial investigation of *Ochna thomasiana* engl. &gilg abstract, MSc, Kenyatta University.
- Wasike Peter Wekesa (I56/211203/2007); Analysis of selected heavy metals in water from River kuywa and adjacent wells in Bungoma Central sub county Kenya, MSc, Kenyatta University.
- Julius Michuki (I56/211203/2007); Optimizing conditions for preparing activated carbon from avocado seeds_for best adsorption of lead ions from waste water, MSc, Kenyatta University
- Skudi Joseph Bwirei (I56/211201/2010); Effectiveness of pH adjustment in lowering ions in alum treated grey water for mopping, MSc, Kenyatta University

12. Training

- Online course on Research Writing in the Sciences from 10th September to 21 October 2019 (6 weeks). offered by the AuthorAID project of International Network for Advancing Science and Policy (INASP), an international development organization in the UK.
- Workshop on coaching and mentoring skills by SGS (societal Generale de Surveillance) Nairobi Kenya on October 2017; Safari Park Hotel'
- Training of schools Board of management chairpersons on effective leadership skills on 15th -19th August 2019

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- Online Course “Introduction to Design Thinking” 26 October till 4 November 2020 offered by CEPU (Collaboration for Entrepreneurial Universities sponsored by DAAD on behalf of Federal Ministry for Economic Cooperation and Development, Germany)
- Online Transformational Leadership Mentoring Training Program on 25th - 29th January 2021 by Africa Center for Transformative and Inclusive Leadership (ACTIL)
- . 2014: Writing Grant Proposal Training held at BSSC On 13th November, 2014.
- 2014: Capacity Building for Staff Mentors held at BSSC on 9th September, 2014.
- 2014: Thesis Supervision Skills Training held at BSSC on 22nd July 2014.
- November 2014: Writing Grant Proposal Training organized by the Centre for Teaching Excellence & Research Training held at Kenyatta University Student Business Centre on 13th November, 2014.
- June 2010: Attended the —Next Generation of Academic Network (NGAN)ll, consultative meeting held on 2nd June, 2010.
- March 2010: Attended a Scientific Workshop on Africa’s Water Quality: A Chemical Perspective organized by the Pan Africa Chemistry Network at Chiromo Campus, University of Nairobi, on 26th March, 2010.
- April 2009: Participated in the Kenya Chemical Society biannual conference held on 25th April, 2009 at University of Nairobi, Chiromo Campus.
- November, 2007: Attended a Seminar by Mr. Peter Kilcoyne of Worcester University, UK on —e-Learning and its benefits Understanding the Pedagogical issuesll held at the Science Complex 02 on 16th November, 2007

13. University Committee Appointments

- Appointment to Appointment to reconstituted University ranking committee KU/VC/A&R/C35/Vol. 8/242 by the Vice Chancellor on 26th April 2021
- Appointment to committee on DAAD Scholarship interviewing panel of candidates 2020 – PhD in Biotechnology Reference number KU/RAC/DAAD/Vol.1/28 (121) dated 24th February 2020
- Appointment to committee on DAAD Scholarship interviewing panel of candidates 2020 – PhD in Biotechnology Reference number KU/RAC/DAAD/Vol.1/28 (121) dated 24th February 2020
- Appointment to a proposal writing committee mandated with preparing a fundable proposal by Japanese Technical Corporation International Agency in the Pure and Applied thematic area Reference KU/DVCR/CA/VOL.2/58 dated 26th August 2020

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- Reappointed to the reconstituted committee to implement the African Development Bank (AFDB) Doctoral and Masters Training Program in Applied Chemistry and Physics REF KU/VC.CM/D17/VOL 2 dated 5th October 2020
- Appointed member and Chairperson of School of Pure and Applied Sciences SPAS Research and Innovation Committee REF: KU/SPAS/DVCRIO/13/ VOL 2020 dated 8th October, 2020
- Appointment as a member of SPAS Strategic Plan Committee 2015-to date
- Appointment to University Research Advisory Board 2017
- Appointed a reviewer for Christian and Scientific Association of Kenya (CSAK) National Essay Competition 2017
- Reviewer for Pest Management Science (SCI) (2017-2019)
- Appointment to the Kenyatta University Centre for Career Development and Placement Board (KU/VC/COMMITTEE /VOL 1 on 15th June 2015
- Mentor, Kenyatta University

14. COMMUNITY OUTREACH ENGAGEMENTS

- Chairperson, Board of Management St Alexis Ruchu Girls High School
- Vice Chairperson, Board of Management Mangu High School
- Member, Board of Governor, Kandara Technical and vocational College
- Member, Board of Management of Muranga Teachers College
- Member, Board of Management of Githunguri Girls High School
- Member, Board of Management of Gaicanjiru Boys High School
- Chairperson, Board of management of Machegeca Primary School
- Mentor, Muranga County Initiative (MCI)
- Member, Board of management of Gaicanjiru Mixed secondary school
- Member, Board of management of St Lwanga Secondary School
- Chairperson BOM academic committee of Mangu and Gaicanjiru High schools

15. CONFERENCE AND WORKSHOPS ATTENDED

1. Participated in Association of African Universities in partnership with Strathmore University on Good Assessment Practices in Higher Education Workshop held at Strathmore University, Nairobi, Kenya on 6th-9th August 2019
2. Participated in Kenya National Innovation (KENIA) strategic plan stakeholder's forum and recognition ceremony for the national innovation award winners held at The Nairobi Safari Club on 17th November 2017.
3. Participated in the 8th International Conference of the Kenya Chemical Society (KCS) (2015) held at Millennium Hall, College of Physical and Biological Sciences, Chiromo Campus, University of Nairobi from 5th to 8th May, 2015. Theme the Applied Chemistry and Technology in Industry.
4. Participated in the Leadership training during the 2013 Regional Conference of the international Network of Women Engineers and Scientists (INWES) held at the Kenya

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- School of Monetary Studies from 19th – 21st November 2013, Nairobi Kenya. Theme: (Presented).
5. Participated in Patent Drafting and Dispute Resolution workshop organized by Regional Centre Capacity Development Kenyatta University, held on 5th -9th August 2013.
 6. Participated in Training of trainers (TOT) workshop on HIV mainstreaming and integration into curriculum held at Kenyatta University Business Services and student Centre (BSSC) on 21st – 24th May 2013.
 7. Participated in AAU-EASRN Training of trainers (TOT) workshop on HIV mainstreaming and integration into curriculum held at Kenyatta University Business Services and student Centre (BSSC) on 25^t – 26th September 2012. Theme: Getting Zero
 8. Participated and completed 2012 Seedling Labs grant writing Curriculum in Boston State, USA between May –August 2012.
 9. Participated and completed 2012 (May –August) visiting Fellow Program hosted by Novartis Institutes for Biomedical Research and Seeding Labs, LLC in Boston States, USA
 10. Participated in the 14th NAPRECA Symposium and AAMPS Ethnoveterinary Medicine Symposium held in 8th -12th at International Centre for Insect Physiology & Ecology (ICIPE) Kasarani, Nairobi, Kenya. Theme: Natural Products from African Biodiversity
 11. Participated in African Women in Science and Engineering (AWSE) Conference held at Kenya School of Monetary Studies
 12. . Participated in the 2nd Nairobi on 18th -20th August, 2010. Theme “A decade into the 20th Century: The contribution of African Women Scientists and. Engineers. (Presented).
 13. 4th ANDI stakeholder meeting and donor’s conference 24-27 October 2011 held at Ethiopia. Theme “creating a sustainable platform for R \$ D innovation in Africa to ***address Africa own health Needs. Science, Technology and Innovation week at KICC, Nairobi, 13th -17th May, 2013***
 14. May 2017: Participated in the Kenya Chemical Society 9th International Conference to be held from 9th May to 12th May 2017.
 15. February, 2017: Participated in the Natural Product Industry Initiative For Kenya: Strategic Plan Validation Workshop held in Nairobi on 8th February, 2017. •
 16. April 2016: Participated in the Kenya Chemical Society Symposium held on 23rd April, 2016 at the USIU-A Science Centre
 17. August 2015: Participated in the workshop organized by the Kenya Chemical Society Annual held on 8th of August at Kenyatta University Student Business Centre.

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18. May 2015: Kenya Chemical Society workshop held at the University of Nairobi from 5th – 8th May, 2015.

19. May 2015: Kenya DAAD Scholars Association Conference held on 28th – 29th May, 2015 at Kenyatta University Conference Centre

16. Consultancy and Project Reports

- Prof. Micheal Gicheru, Dr. Anne Maundu, Dr. Joshua Mutiso, Dr. Paul Muoria, Dr. Adelaide Mutune, Dr. Eric Masika, **Dr. Margaret Ng'ang'a**, Dr. Evans Changamu, Dr. Patroba Odeny, Dr. Regina Ntabo; Feasibility Study Report: STEM Labs; Commonwealth of Learning; 3rd May 2021.

17. PROFESSIONAL MEMBERSHIP

- Member, Kenya Chemical Society (KCS)
- Member, African Women in Science and Engineering (AWSE)
- Member, Natural Products Research Network of East and Central Africa (NAPRECA)

REFEREES

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