


Academic Staff Profile

Personal Profile

Personal Details

<p>Name: MACHOCHO, ALEX KING'ORI Title/Qualification: PhD Department: Chemistry Designation/Position: Associate Professor Email: machocho.alex@ku.ac.ke Contact Address: Department of Chemistry, P.O. Box 43844 (00100), Nairobi Area of Specialization: -Organic Chemistry -Natural Products Chemistry Research Interests: -Medicinal Chemistry -Environmental Chemistry Google Scholar: https://scholar.google.com/citations?user=5A0nSA0AAAAJ&hl=en ORCID ID: https://orcid.org/0000-0003-1525-6757</p>	
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Academic and Professional Qualifications:

- June 2001 - Feb. 2002:** **Post-Doctoral Studies [UNESCO/Israel Post-Doctoral Fellowship]**
Ben-Gurion University of the Negev, Beer-Sheva, Israel;
- August 1996 – July 2000: Doctoral Studies (PhD) [Spanish Government Scholarship]**
University of Barcelona, Spain
- Jan. 1990 - July 1992:** **Master of Science (MSc) Studies (Chemistry)**
Kenyatta University, Nairobi, Kenya.
- Sept. 1981 – June 1985:** **Bachelor of Education (BEd, Science) (Upper 2nd Class Honours)**
Kenyatta University College (By then under University of Nairobi)

Employment History:

- **Associate Professor** Kenyatta University, May 2014 - Present
- **Senior Lecturer:** Kenyatta University, July 2003 – May 2014
- **Lecturer:** Kenyatta University, Jan. 1996 – July 2003
- **Tutorial Fellow:** Kenyatta University, July 1992 – Dec. 1995
- **Graduate Assistant:** Kenyatta University, Jan. 1990 - June 1992
- **College Tutor:** Laikipia Teachers College, Jan. 1989 - Jan. 1990
- **Graduate Teacher:** Nyeri High School, July 1985 – Dec. 1988

Publications (2014-2021)

1. Gitahi, S.M., Ngugi, P.M., Mburu, D.N. and **Machocho, A.K.** (2021). Repellent Effects of Selected Organic Leaf Extracts of *Tithonia diversifolia* (Hemsl.) A. Gray and *Vernonia lasiopos* (O. Hoffman) against *Sitophilus zeamais* Motschulsky(Coleoptera: Curculionidae). *Hindawi, The Scientific World Journal*, 1: 1-13 ID 2718629,
2. Gitonga, G.M., Ngeranwa, J., **Machocho, A.K.** and Kiruki, S. (2020). Qualitative phytochemical screening and antipyretic activity of methanolic stem bark extract of *Mangifera indica* in wistar rats. *The Journal of Phytopharmacology*, 9(4): 218-223
3. Gitonga, G.M., Ngeranwa, J., **Machocho, A.K.** and Kiruki, S. (2020). Phytochemical and Anti-Inflammatory Analysis of *Prunus africana* Bark Extract. *Research Journal of Pharmacognosy*, 7(4): 31-38.
4. Githinji, P.M. Gathirwa, J.W., Ng'ang'a, M.M. and **Machocho, A.K.** (2020). Triterpenoids from *Grewia plagiophylla* K. Schum. *Pharmacognocny Communication*, 10(3):130-133.
5. Tapera, M., Wanjau, R., **Machocho, A.K.**, Dzomba, P., Mutsiba, P. and Kaseke, K. (2020). Phytochemical profile of *Plecranthus esculentus* N.E.Br obtained from Zimbabwe authenticates its medicinal uses. *IOSR Journal of Applied Chemistry (IOSR-JAC)*, 13(9), 34-41. DOI: 10.9790/5736-1309013441.
6. Guchu, B.M., **Machocho, A.K.**, Mwihia, S.K. and Ngugi, M.P. (2020). *In Vitro* Antioxidant Activities of Methanolic Extracts of *Caesalpinia volkensii* Harms., *Vernonia lasiopos* O. Hoffm., and *Acacia hockii* De Wild. *Evidence-Based Complementary and Alternative Medicine Journal*, ID No. 3586268
7. Tapera, M., Wanjau, R., **Machocho, A.K.**, and Dzomba, P. (2020). Use of Polyphenol Extracts from *Dioscorea steriscus* and *Plecranthus esculentus* N.E.Br Tubers to Curb Oxidative Deterioration of Sunflower Oil. *South Asian Research Journal of Natural Products*, 3(1), 18-28; Article no.SARJNP.55089.
8. Tapera, M., Wanjau, R., Dzomba, P., **Machocho, A.K.**, and Mburu, J. (2020). Phytochemical study to validate the ethnobotanical importance of *Dioscorea steriscus* tubers obtained from Zimbabwe, *STED Journal*, 2(1), 1-10. DOI: 10.7251/STED2002001T.
9. Ngolo P., Nawiri M., **Machocho A.** and Oyieke H (2019). Pesticide Residue Levels in Soil, Water, Kales and Tomatoes in Ewaso Narok Wetland, Laikipia, County, *Kenya Journal of Scientific Research & Reports* 24(5): 1-11; Article no.JSRR.48243 ISSN: 2320-0227
10. Kihagi RW, Amuka O, **Machocho AK**, Wafula AW (2019). Phytomedicine and Allied Compounds in Both Human and Animal Healthcare. *Biomedical Journal of Scientific and Technical Research*, 14(2).
11. Njogu, S.M., Arika, W.M., **Machocho, A.K.**, Ngeranwa, J.J.N. and Njagi, E.N.M. (2018). *In Vitro* Hypoglycemic Effects of *Kigelia africana* (Lam); Studies with Alloxan-Induced Diabetic Mice. *Journal of Evidence-Based Integrative Medicine* 23: 1-10.
12. Abuto, J.O., Muchugi, A. and **Machocho, A.K.** (2018). Diversity in the Phytochemical Profiles of *Warbugia ugandensis* Sprague from Different Populations across the Kenya Rift Valley. *Journal of Pharmaceutical, Chemical and Biological Sciences* 6 (1): 41-51.
13. Ngolo, P., Nawiri, M., **Machocho, A.** and Oyieke, H. (2018). Pesticide Use in Pest Management: A case Study of Ewaso Narok Wetland Small-Scale Vegetable Farmers, Laikipia County, Kenya. *Journal of Agriculture and Ecology Research International* 14 (2): 1-8.
14. Okwemba, R.I., Tarus, P.K., **Machocho, A.K.**, Wanyonyi, A.W., Waweru, I.M., Onyancha, J.M., Onani, M.O. and Amuka, O. (2018). Isolation, Characterization and Biological activity of Organic extractives from *Calodendrum capense* (L.f) Thunb, (Rutaceae). *Journal of Medicinal Plants Research* 12 (13): 139-163.

15. Abuto, J.O., Muchugi, A., Mburu, D., Machocho, A.K. and Karau, G.M. (2016). Variation in Antimicrobial Activity of *Warbugia ugandensis* Extracts from Different Populations across the Kenyan Rift Valley. *Journal of Microbiology Research* 6 (3): 55-64.
16. Njogu, S.M., Arika, W.M., Nyamai, D.W., Ngugi, P.M., **Machocho, A.K.**, Ngeranwa, J.J.N. and Njagi, E.N.M. (2016). Hypoglycemic Effects of Aqueous and Ethyl acetate Leaf Extracts of *Maytenus putterkloides* in Alloxan Induced Diabetic Mice. *Journal of Diabetes and Metabolism* 7 (6): 1-7 (1000686).
17. Obel, H.J., **Machocho, A.K.** and Ngugi, M.P. (2016). Effects of Dichloromethane-Methanolic Leaf Extracts of *Carissa edulis* (Forssk.) Vahl on Serum Lipid Profiles in Normal Rat Models. *Journal of Hypertension* 5 (2): 1-6 (1000217).
18. Mbithi, J.M., Awadh, M.M., Gikonyo, N.K., Tarus, P.K. and **Machocho, A.K.** (2016). Phytochemical and Antibacterial Investigation of the Plant *Ochna thomasiana* Engl. & Gilg. *Journal Kenya Chemical Society* 9 (1): 82-90.
19. Obel, H.J., Ngugi, M.P. and **Machocho, A.K.** (2016). Haematological Effects of Dichloromethane-Methanolic Leaf Extracts of *Carissa edulis* (Forssk.) Vahl in Normal Rat Models. *Journal of Hematology & Thromboembolic Diseases* 4 (1): 1-8 (1000232).
20. Gitonga, G.M., Joseph Ngeranwa, J., **Machocho, A.K.**, Mgotu, A. Gitonga, A.W. and Muhihu, T. (2015). A preliminary study on the effects of Khat (*Catha edulis*) on liver of mice. *The Journal of Phytopharmacology* 4(3): 176-182.
21. Amuka, O., **Machocho, A.K.**, Okemo, P.O. and Mbugua, P.K. (2015). Antifungal and Antibacterial Activity of Crude Stem Bark Extracts of *Bersama abyssinica* Verdc. and *Faurea saligna* Harr. *Research Journal of Medicinal Plant* 9 (4): 160-169.
22. Amuka, O., **Machocho, A.K.**, Okemo, P.O. and Mbugua, P.K. (2015). Preliminary Medicinal Value Evaluation of Some Plants Used by the Ogiek in Management of Microbial Related Infections. *European Journal of Medicinal Plants* 9 (4): 1-12.
23. Karau, G.M., Njagi, E.N.M., **Machocho, A.K.**, Wangai, L.N. and Mungiria, J.N. (2015). Chemical Composition and *in vitro* activity of *Ocimum americanum*. *Advances in Analytical Chemistry* 5 (2): 42-49.
24. Awadh, M.M., Tarus, P.K., Onani, M.O., **Machocho, A.K.** and Hassanali, A. (2014). Biflavonoids from an Ethno-Medicinal Plant *Ochna holtzii* Gilg. *Natural Products Chemistry & Research* 2 (6): 1-5.
25. Amuka, O., Okemo, P.O., **Machocho, A.K.** and Mbugua, P.K. (2014). Ethnobotanical Survey of Selected Medicinal Plants Used by Ogiek Communities in Kenya against Microbial Infections. *Ethnobotany Research and Application Journal* 12: 627-641.
26. Omole, R.A., Gathirwa, J., Akala, H., Malebo, H.M., **Machocho, A.K.**, Hassanali, A. and Ndiege, I.O. (2014). Bisbenzylisoquinoline and hasubanane alkaloids from *Stephania abyssinica* (Dillon & A. Rich) (Menispermaceae). *Phytochemistry* 103:123–128.
27. Rugutt, J.K., Okoth, K.O., Wanjau, R.N., Gikonyo, N.K., **Machocho, A.K.**, Rugutt, K.J., Obel, M.C. and Mibei, E. (2014). A Quantitative Analytical Chemistry Research-based Experiment Involving Comparative Analysis of *Amaranth* Grain Oils Extracted from Embu and Meru Districts in Kenya. *The Chemical Educator* 19: 91–95.
28. Rugutt, J.K., Okoth, K.O., Wanjau, R.N., Gikonyo, N.K., **Machocho, A.K.**, Rugutt, K.J., Rykhlya, K.Y., Harris, K.B., Wilson, K.R. and Koech, J. (2014). US-Africa Collaboration in a Chemical Education Project Involving Analysis of *Amaranthus* Grain Oil from Selected Agro-Ecological Zones in Kenya. *The Chemical Educator* 19: 50–54.
29. Amuka, O., **Machocho, A.K.**, Okemo, P.O. and Mbugua, P.K. (2014). Profiling of Antimicrobial Properties of *Rubus keniensis* Standl. Crude Methanol Root Bark Extract Against Selected Human Pathogenic Bacteria. *Journal of Pharmacognosy and Phytochemistry* 2(5): 20-23.

30. Karau, G.M., Njagi, E.N.M., **Machocho, A.K.**, Wangai, L.N. and Kamau, P.N. (2014). Efficacy and Safety Assessment of *Launaea cornuta* Extracts in the Management of Diabetes Mellitus. *American Journal of Medicine and Medical Sciences* 4(1): 1-7.

Conference/Workshops/Seminar Papers

1. Kenya Healthy Home Healthy Brain Project (K-HHOP); University of Washington and University of Nairobi; Workshop; Gracia Gardens –Nairobi; 5-6 August 2019
2. Kenya Chemical Society; General Requirements for Competence of Testing and Calibration Laboratories Workshop; 20th July 2019
3. Minet-Kenya; Annual Pension Conference; “Retirement Benefits Adequacy”; The Panari Resort, Nyahururu; 17-18 January 2019
4. Kenya Chemical Society; Basic Chemical Safety Training; Kenyatta University 9th June 2018
5. GenAfrica-Kenya; 2nd Annual GenAfrica Conference; 22-23 March 2018
6. NAPRECA Kenya; International Conference; JKUAT, 8-10 Feb 2018
7. Kenya Chemical Society; 9th International Conference USIU-Africa 9-12 May 2017
8. College of Insurance; Trustee Development Program Kenya (TDPK); 24th Feb 2017
9. Kenyatta University; Intellectual Property Rights Workshop; Industrial Properties in Economic Development; 28th September 2016
10. Kenya Chemical Society; Nairobi Chapter Symposium; USIU-Africa; 23rd April 2021
11. University of Kabianga; Workshop for Curriculum Development, Review and Implementation; 9-12 Feb 2016
12. Regional Workshop on Use of Utility Models and Industrial Designs for SMes in ARIPO Member States; Harare 24-26 June 2015
13. Kenya Chemical Society International Conference; UoN; 5-8 May 2015
14. Sadia National Laboratories USA: Advanced Chemical Safety and Security Workshop. UoN; 28-30 April 2015
15. Centre for Teaching Excellence and Evaluation: Teaching methodology; 14th Nov 2013
16. NAPRECA Kenya Chapter Workshop JKUAT. 22nd Nov 2013
17. Kenya Chemical Society Workshop, Nairobi Chapter. Multi Media. 31st August 2013
18. Kenya Chemical Society Workshop, Nairobi Chapter. TUK. 27th April 2013
19. The First International Conference on Pesticidal Plants, ICIPE. 21-24 January 2013
20. Kenya Chemical Society International Conference, Maseno University. 15th to 18th October 2012
21. Kenya Chemical Society Workshop, Nairobi Chapter. JKUAT. 25th August 2012
22. Pan-African Natural Products Library Consortium Meeting. Africa Academy of Science, Nairobi. 26th to 27th July 2012. “Natural Products Research at Kenyatta University”
23. The inaugural Conference on NanoTechnology and material Science in Kenya. Kenyatta University. 18th to 20th July 2012. (Organizer and Session Chairing).
24. Lake Victoria Research initiative (VicRes) Biennial Forum. Speke Resort Munyonyo Kampala 9th-13th October 2011. The Status of Green Gram Production, Pest and Disease Management in Parts of Lake Victoria Basin.
25. The 14th NAPRECA Symposium. ICIPE Nairobi. 8th – 12th August 2011. Antimicrobial Activity and Phytochemical Studies of Some Selected Medicinal Kenyan Plants.
14. International Nanomedicine Workshop on Infectious Diseases of Poverty: Perspectives and Possibilities. Magaliesberg South Africa. 27th to 31st March 2011.
15. Formulation of Bioprospecting Strategy Framework for Protected Areas for KWS, Whitesands Hotel. Mombasa 27th Feb to 3rd March 2011

Funded Projects

- **International Foundation of Science (IFS).** (PI; Dr. Muchugi A. of Biochemistry); US\$ 20,000. (2012-2015).
- **Lake Victoria Research Initiative (VicRes) - SIDA/SAREC/IUCEA.** – (PI); Project title: Enhancing integrated pest and disease management strategies in the production of green gram in parts of Lake Victoria Basin. US\$ 150,000. (2008 to 2012).
- **Lake Victoria Research Initiative (VicRes) - SIDA/SAREC/IUCEA.** – (PI; Prof. Ndiege); Project title: Evaluation, biological and chemical studies of anti-malarial plants of Western Kenya. US \$ 150,000. (2003 to 2007).
- **African Institute for Capacity Development (AICAD).** - (PI); Project title: Bioprospecting for phytochemicals in ASAL regions in Kenya to control *Sitophilus zeamais* as a strategy for increasing food security. US \$ 20,000. (2003 to 2005).
- **International Foundation of Science (IFS) – (PI);** Project title: Active Principles from the Genus *Tephrosia* against various Insect Pests. US \$ 20,000 (1995-1996).

Supervision of Postgraduate Students

Masters:

Completed MSc

1. **Guchu, Beatrice Muthoni;** In Vitro Antioxidant Activities of Methanolic Extracts of *Caesalpinia volkensii* Harms., *Vernonia lasiopus* O. Hoffm., and *Acacia hockii* De Wild. (2020).
2. **Ngolo Peter;** Assessment of Use and Determination of Pesticide Residue Levels in Soil, Water, Tomatoes and Kales in Ewaso Narok Wetland – Laikipia County, Kenya (2019)
3. **Kihagi Regina Wamuyu;** Antimicrobial and phytochemical studies of *Lannea scheinfurthii* (Engl) Engl. (2016).
4. **Abuto John Otieno;** Evaluation of phytochemical profiles and antibacterial activity of *Warbugia ugandensis* extracts from Different populations east and west of Kenyan Rift Valley. (2016).
5. **Ong'era Tabitha N.;** Screening for Antimicrobial compounds present in *Bersama abyssinica* Fresen. (2016).
6. **Obel Jorum Humphrey;** Effects of Dichloromethane-Methanol leaf extracts of *Carissa edulis* (Forssk.) Vahl on Haematological and serum Lipid Profiles in Normal rat Models. (2016).
7. **Ombuna Naftal M.;** Isolation and identification of antimicrobials from *Erythrina excelsa* Bak. (2016).
8. **Gitonga Godfrey Mutuma;** Oral effects of Khat (*Catha edulis*) extract on Liver and kidney of albino Mice (2015)
9. **Mbithi, Justus Muema;** Phytochemical investigation of the antimicrobial activity of *Ochna thomasi* Engl. & Gilg (2015).
10. **Sawenja, Fred W.;** "Isolation of antimalarial compounds from medicinal plants used in South Nyanza Regions". (2013).
11. **Irungu, Kenneth (MSc).** "Antimicrobial activity and structural elucidation of secondary metabolites from *Rubus steudneri*, *Indigofera homblei* and *Chasmanthera dependens*". (2012).
12. **Okwemba, Ronald Ing'ahu (MSc).** "Isolation and screening of metabolites for antimicrobial activity of selected plants of the family, Rutaceae Antimicrobial activity and structural elucidation of secondary metabolites from *Rubus steudneri*, *Indigofera homblei* and *Chasmanthera dependens*". (2012).
13. **Omole, Ruth O. (MSc).** "Anti-malarial activity of *Cissampelos mucronata* and *Stephania abyssinica*." (2011).

14. **Onyancha, Evans Marvin (MSc)**. "Phytochemical studies of some species of genus *Teclea* and used in traditional medicines in Kenya". (2010).
15. **Mohamed, Mbarak Awadh (MSc)**. "Phytochemical and biological studies of selected plants from the Ochnaceae family used in tradition medicine in the coastal region of Kenya". (2010)
16. **Serem, Abraham Kipkemei (MSc)**. "Antimicrobial activity and structural studies of secondary metabolites from *Tabernaemontana stapfiana* and *Garcinia buchananii*". (2010).
17. **Muithya, James (MSc)**. "Isolation, structure elucidation and antimicrobial activity studies of secondary metabolites from genus *Uvariadendron anisatum*, *Erythrococca bongensis* and *Echinops hispidus*". (2010).
18. **Amboga, Enok Bichang'a (MSc)**. "Anti-mycobacterial effects of selected medicinal plants used by herbal doctors in Kisii to treat respiratory infections". (2009).
19. **Musyoka, Stephen Makari (MSc)** "Phytochemical investigation of anti-larval activity of the genus *Vitex* against *Anopheles gambiae*." (2008).
20. **Njoroge, Peter Waithaka (MSc)**. "Isolation and structure elucidation bioactive antimicrobial agents from selected medicinal plants of the genus the *Rhus* (Anacardiaceae). (2008).
21. **Mwangi, Erastus Stanley Kamau (MSc, JKUAT)**. "Pesticidal principals from *Teclea trichocarpa*, and *Albizia anthelmintica* against control the maize weevil (*Sitophilus zeamais*) as a strategy of food security" (2007).

PhD:

1. **Muriuki, Salome Wamuyu**; Potential of biogas technology to mitigate climate change and improve the livelihoods of small holder farmers in Kiambu County, Kenya. (Completed 2014).
2. **Karau, Geoffrey Muriira**; Bioprospecting of anti-diabetic compounds from selected medicinal plants used among Mbeere and Meru. (Completed 2014).
3. **Omari Amuka**; "Efficacy of selected medicinal plants used by the Ogiek communities against microbial related conditions". (Completed 2013).
4. **Gitahi, Stephen Maina**; Repellent Effects of Selected Organic Leaf Extracts of *Tithonia diversifolia* (Hemsl.) A. Gray and *Vernonia lasiopus* (O. Hoffman) against *Sitophilus zeamais* Motschulsky (Coleoptera: Curculionidae). (Submitted)
5. **Gitonga, Godfrey Mutuma**; Qualitative phytochemical screening inflammatory and antipyretic activity of methanolic stem bark extract of *Mangifera indica* and *Prunus africana* Bark Extracts in wistar rats. (Submitted)
6. **Githinji, Peter Muchoki**; Isolation and Structural Elucidation of Antimalarial Compounds from Selected Plants used Traditionally for Treatment of Malaria in Kilifi County. (Continuing)
7. **Kang'iri, Jacqueline**; Development of a Reference Material for Evaluation of Levels of Select Chemical Contaminants in Black Teas in the Kenyan Market. (Continuing)

Community Service and Other Engagements

- **Technical Committee Member, KEBS**: - Dyestuffs, Chemicals, Auxiliaries and Finishing in Textiles 1st November 2019-Present
- **Chairman - Board of Governors**– Ngumo Sec. School, Laikipia West 2010 – Present
- **Patron** - Laikipia County Kenyatta University Students Association (LACKUSA) 1999 - Present

Affiliation of Professional Bodies

- Kenya Chemical Society (KCS) – National Governing Council (Member, 2013 to present)
- Kenya Chemical Society (KCS) - Nairobi Chapter (Chairman, 2012 to present)
- Natural Products Research Network of East and Central Africa (NAPRECA)-Country (Vice Chairman) and Regional (Member)

- African Dryland Alliance for Pesticidal Plant Technologies (ADAPPT) - National Organizing Committee (Member)

National and International awards and Recognitions

- **Chancellor's Extraordinary Doctoral Prize, University of Barcelona (2001).** Natural Products Chemistry on PhD Programme on 'Alkaloids from Kenyan Amaryllidaceae' (Faculty of Pharmacy)

Administrative Positions Held

Recognized university administrative positions

- Kenyatta University Retirement Benefit Trustee: Sept 2016-Present
- University Intellectual Property Board 2015 2018 Member
- Committee to Work on a Concept for the Processing of Branded Bottled Water by the University; April-July 2015 Member
- School of Pure and Applied Sciences (SPAS) - Board of Postgraduate Studies: Chairman 2007-2017
- Teaching Practice (T.P.) Area Supervisor-Thika B 2010-2015
- Committee to Ad Hoc on KU Copyrights June 2013 Member
- Committee to Spearhead Collaboration with Government Chemist, KEBS and KEPHIS
- Rapid Result Initiate (RRI) Graduate School (May 2011) Member
- Science/Technology Park (2008) Committee Member
- University Graduate School Board (Rep SPAS 2005-08) Member
- Departmental Academic Board Member
- Departmental Academic Advisor Year 1 Coordinator
- Departmental Social Welfare Committee Member
- Departmental Post-graduate Board (Chairman, 2003-2005) Member
- Linkages, student field trips and attachment committee (2003-Present) Member
- Departmental Income Generating Committee Member
- Research and proposal writing committee Member
- Departmental Time-Tabler (1994-1996)

Other administrative positions Held

- **External Examiner:** - Chemistry/Physics: Murang'a University of Technology 2018-Present
- **External Examiner:** - Organic Chemistry: Egerton University 2010 - Present
- **External Examiner** – Physical Sciences: Mount Kenya University Sept 2011 –Present
- **External Examiner:** - Chemistry: University of Dar Es Salaam April 2013-2019
- **External Examiner:** - Chemistry/Physics: University of Embu; June 2013 - 2019
- **External Examiner:** - Organic Chemistry: University of Nairobi Jan 2013 -2015
- **Course Panelist:** - Kenya Institute of Curriculum Development March 2014
- **Journal Papers Reviewer:** - Laikipia University Journal of Science and Technology [LUJST] Sept 2012
- **External Examiner** – Chemistry: Kimathi University College of Technology 2008 – June 2013
- **Proposals Reviewer** – Jomo Kenyatta University of Agriculture and Technology – 2011 – Present

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