



# THE TECHNICAL UNIVERSITY OF KENYA

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School:	Biological and Life Sciences
Department:	Applied and Technical Biology
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Consultation Hours:	8AM-5PM MON - FRI

## EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	PLANT TAXONOMY & ECONOMIC BOTANY	UNIVERSITY OF NAIROBI(Kenya)	2017
Masters of Science (M.Sc.)	BOTANY	UNIVERSITY OF NAIROBI(Kenya)	2012
Bachelor of Science (BSc)	BIOLOGY	UNIVERSITY OF NAIROBI(Kenya)	2010
O level/Equivalent	Kenya Certificate of Secondary Education	KITHUNGUINI SEC SCHOOL(Kenya)	2004

## WORK EXPERIENCE

<b>PERIOD</b>	<b>INSTITUTION</b>	<b>POSITION</b>
2018 - TO DATE	TECHNICAL UNIVERSITY OF KENYA	LECTURER
2015 - 2017	TECHNICAL UNIVERSITY OF KENYA	TUTORIAL FELLOW
2013 - 2015	KENYATTA UNIVERSITY	PART-TIME LECTURER
2014 - 2015	JOMO KENYATTA UNIVERSITY OF AGRICULTURE & TECHNOLOGY	PART-TIME LECTURER
2014 - 2015	EMBU UNIVERSITY COLLEGE	PART-TIME LECTURER

#### CURRENT RESEARCH PROJECTS

Molecular phylogeny, biochemical systematics and antimicrobial activity of <i>Plectranthus</i> species	Plant Taxonomy, Economic Botany, Natural product Research
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#### SELECTED PUBLICATIONS

TITLE	LINK TO PULICATION
Musila, M.F, Dossaji, S.F., Nguta, J.M., Lukhoba, C.W., Munyao, J.M., 2013. In vivo antimalarial activity, toxicity and phytochemical screening of selected antimalarial plants. Journal of Ethnopharmacology 146, 557-561	<a href="http://tinyurl.com/z467wxg">http://tinyurl.com/z467wxg</a>
Musila FM, Lukhoba CW, Dossaji SF, Nguta JM. 2017. "Molecular Phylogeny of ten Kenyan <i>Plectranthus</i> species in the <i>Coleus</i> clade.". in Proceedings of the XXI AETFAT congress; Systematics, biogeography and Conservation of African plants and fungi. Catholic University of Eastern Africa, Nairobi, Kenya.	<a href="http://tinyurl.com/y7bsmd4a">http://tinyurl.com/y7bsmd4a</a>
Musila, F M, Nguta JM, Lukhoba CW, Dossaji SF. 2017. Antibacterial and antifungal activities of ten Kenyan <i>Plectranthus</i> Species in the <i>Coleus</i> Clade, Journal of Pharmacy Research, 11(8),1003-1014	<a href="http://tinyurl.com/ycgn7346">http://tinyurl.com/ycgn7346</a>
Fredrick M. Musila, Catherine W. Lukhoba, Joseph M. Nguta, and Saifuddin F. Dossaji, "Phylogeny of Ten Kenyan <i>Plectranthus</i> Species in the <i>Coleus</i> Clade Inferred from Leaf Micromorphology, Rbcl and MatK Genes," Journal of Botany, vol. 2017, Article ID 4369029, 16 pages, 2017. doi:10.1155/2017/4369029	<a href="https://www.hindawi.com/journals/jb/2017/4369029/">https://www.hindawi.com/journals/jb/2017/4369029/</a>
Michael, E.S., Yole,D., Musila, M.F., Kutima, H., Kareru, P., 2013. Assessment of Molluscicidal, Cercerical and Miracicidal Activities of Crude Extracts of <i>Azadirachta indica</i> and <i>Entada leptostachya</i> . Journal of Biology, Agriculture and Healthcare, 3(5), 11-17.	<a href="http://tinyurl.com/zd53nlx">http://tinyurl.com/zd53nlx</a>
Kaigongi, M. M., Dossaji, S.F., Lukhoba, C.W., Musila, M. F., 2014. Antimicrobial activity, Toxicity and Phytochemical Screening of Four Medicinal Plants Traditionally used in Msambweni District, Kenya. Journal of Biology, Agriculture and Healthcare, 4(28), 6-12	<a href="http://tinyurl.com/hbdp737">http://tinyurl.com/hbdp737</a>
Kaigongi, M., Musila, M. F. (2015). Ethnobotanical study of medicinal plants used by Tharaka people of Kenya. International Journal of Ethnobiology & Ethnomedicine, 1(1).1-8	<a href="http://tinyurl.com/gs4l58y">http://tinyurl.com/gs4l58y</a>
Musila, F.M., Lukhoba, C.W., Nguta, J.M. and Dossaji, S.F. 2018. <i>Plectranthus</i> ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit-like gene, partial sequence; chloroplast. Popset.	<a href="https://www.ncbi.nlm.nih.gov/popset/1379072106?report=genbank">https://www.ncbi.nlm.nih.gov/popset/1379072106?report=genbank</a>
Musila, F.M., Lukhoba, C.W., Nguta, J.M. and Dossaji, S.F. 2018. <i>Plectranthus</i> maturase K-like gene, partial sequence; chloroplast. PopSet.	<a href="https://www.ncbi.nlm.nih.gov/popset/1379072116?report=genbank">https://www.ncbi.nlm.nih.gov/popset/1379072116?report=genbank</a>
Ali HM, Nguta JM, Mapenay IO, Musila FM, Vincent OM, Nyak DM. Ethnopharmacological uses, biological activities, chemistry and toxicological aspects of <i>Ocimum americanum</i> var. <i>americanum</i> (Lamiaceae). J Phytopharmacol 2021;10(1):56-60	<a href="http://www.phytopharmajournal.com/Vol10_Issue1_11.pdf">http://www.phytopharmajournal.com/Vol10_Issue1_11.pdf</a>
Matara DN, Nguta JM, Musila FM, Mapenay I, Ali HM, Omambia VM. Botanical description, ethnomedicinal uses, phytochemistry and pharmacological effects of <i>Croton dichogamus</i> Pax (Euphorbiaceae). J Phytopharmacol 2021;10(1):42-47	<a href="http://www.phytopharmajournal.com/Vol10_Issue1_09.pdf">http://www.phytopharmajournal.com/Vol10_Issue1_09.pdf</a>