

Name: Henry Mwangi

Position: Lecturer

Chairman: Prof. Sauda Swaleh

Email: henrimwangi@gmail.com; mwangi.henry@ku.ac.ke

Tel.: +254722484282



Membership in Professional Societies: Kenya Chemical Society
Royal Society of Chemistry

Education: PhD University of the Western Cape, South Africa

Research focus: Finding scientific evidence on medicinal terrestrial plants and marine algae with therapeutic evidence

Recent Projects and consultancies :

1. Vulnerability of water quality and standards due to pollution in Mwea rice scheme, Kenya, June 2016
2. Antioxidant properties of selected aquatic flora by Kenya marine and Fisheries Institute (KEMFRI)

Conference Presentations

Participation in a National Workshop on the overview of trends in teaching and research in inorganic chemistry and its applications in Kenya,	Nairobi	12-13 May 2016	University of Nairobi
Isolation of phloroglucinol derivatives and a sterol from the brown alga <i>Ecklonia maxima</i> , potential candidates for the effective treatment of cancer.	Addis Ababa/ Ethiopia	30/11/2014 – 02/11/2014	Royal Society of Chemistry
Radical Scavenging Activity of Phlorotannin Derivatives from a Brown Algae, <i>E. maxima</i> : An Experimental and Theoretical Study	Cape Town/ South Africa	30 th - 31 st October 2013	University of the Western Cape
Phloroglucinol derivatives and a sterol from a brown alga <i>CEM-K</i> in the management of cancer	Pretoria/ South Africa	16 th - 18 th October 2012	ASSAF
Investigation of the natural products composition of the brown seaweed <i>CEM-K</i>	East London/ South	22 nd - 24 th August 2012	Walter Sisulu University

	Africa		
Phytochemical and antimicrobial studies on <i>Rhus natalensis</i>	East London/ South Africa	17 th - 19 th August 2011	Walter Sisulu University

Recent publications

- **Henry M. Mwangi**, Wilfred T. Mabusela, Berhanu M. Abegaz and Onani O. Martin (2013). Antimicrobial activities of a novel biflavonoid and other constituents from *Rhus natalensis*. Journal of Medicinal Plants Research Vol. 7(10), pp. 619-623.
- **Henry M. Mwangi**, Jan Van Der Westhuizen, Jeanine Marnewick, Wilfred T. Mabusela, Mwacham M. Kabanda, Eno E. Ebenso. (2013). Isolation, identification and radical scavenging activity of phlorotannin derivatives from brown algae, Ecklonia maxima: An experimental and theoretical study. Free Radicals and Antioxidants 3: S1-S10. <http://dx.doi.org/10.1016/j.fra.2013.10.006>.
- Mwacham M. Kabanda , Liliana Mammino , Lutendo C. Murulana , **Henry M. Mwangi**, and Wilfred T. Mabusela. (2014).Antioxidant radical scavenging properties of phenolic pent-4-en-1-yne derivatives isolated from Hypoxis rooperi. A DFT study in vacuo and in solution, International Journal of Food Properties, <http://dx.doi.org/10.1080/10942912.2013.825842>

Graduated and Current Supervision of postgraduate students

1. Maingi Mukora Francis (Msc) I84/33102/2015 Functionalized geopolymers derived from common clay and rice husk ash for application in adsorption of heavy metals
2. Constantine M. Kameti (Msc) I84/32256/2015 Anticancer, antimicrobial and antioxidant screening of compounds from selected medicinal plants used in Makueni county, Kenya
3. Kipyegon Ng'eno (Msc) I84/32250/2015 Phytochemical screening, isolation and structure elucidation of compounds from selected medicinal plants traditionally used by Kipsigis in Kenya for antimicrobial and antioxidant activity