

## CURRICULUM VITAE

**NAME:** NAWIRI MILDRED PAULINE, (PHD)  
**GENDER:** FEMALE  
**MARITAL STATUS:** MARRIED  
**RELIGION:** CHRISTIAN  
**NATIONALITY:** KENYAN  
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### WORKING EXPERIENCE AT KENYATTA UNIVERSITY\*

) Senior Lecturer July 2014- (**CURRENT POSITION**)  
) Lecturer: October 2008- July 2014  
) Tutorial Fellow: 2000-September 2008  
) AVU Chemistry course Facilitator 2000-2002  
) Graduate Assistant: 1997-2000

\*Positions held at Chemistry Department

### **Teaching Units**

#### **Undergraduate Courses**

SCH 103-Introduction to classical methods and separation techniques  
SCH 104- Introduction to laboratory procedures and classical analysis  
SCH 304-Introduction to analytical instrumentation  
SCH 314-Introduction to Separation Techniques  
SCH 404-Instrumental methods  
ECD 301-Introduction to Applied Statistics

#### **Graduate Courses**

SCH 850-Research methodology  
SCH 851-Analytical Separation techniques  
SCH 800-Advanced separation techniques and data management  
SCH 801- Advanced Instrumentation  
ECD 501-Applied Statistics

### EDUCATION

) **POST-DOC RESEARCH FELLOW (2013)**- Kenyatta University  
) **DOCTOR OF PHILOSOPHY (Ph.D), CHEMISTRY (2008)** –Kenyatta University,  
Chemistry Department with 6 months research visit to Siegen University, Germany  
) **MASTER OF SCIENCE (M. SC), CHEMISTRY (2000)**, Kenyatta University  
) **BACHELOR OF EDUCATION (B. ED., SC) (1996)**, Kenyatta University  
) **KCSE (1990)**, Bunyore Girls High School  
) **KCPE (1986)**, Mumias Girls Primary School

### ADMINISTRATIVE RESPONSIBILITIES AT KENYATTA UNIVERSITY

- ) **Director University- Industry Partnerships** (27<sup>th</sup> August 2014-**CURRENT**)
- ) Acting Director, Quality Management systems (11<sup>th</sup> -29<sup>th</sup> January 2016)
- ) Acting Director, Alumni Programmes (14<sup>th</sup> -27<sup>th</sup> May 2014)
- ) Coordinator Kenyatta University- Presybeterian University of East Africa (KU-PUEA) collaboration (24<sup>th</sup> January 2011-to date)
- ) Chairperson Departmental Board of Postgraduate studies (DBPS)- Dec 2010-Jan 2011
- ) Academic Advisor for First Year students in Chemistry Department
- ) Secretary: Department of Chemistry social welfare committee
- ) Postgraduate Seminars Committee: Member
- ) Mentor to undergraduate students
- ) Teaching practice area supervisor: Kakamega-VihigaMumias region (2010- 2014)

### MEMBERSHIP IN BOARDS AT KENYATTA UNIVERSITY

- |   |      |  |                  |
|---|------|--|------------------|
| ) | 2017 | Chandaria BIIC Board                                   | <b>Member</b>    |
| ) | 2016 | Center for International Programmes and Collaborations | <b>Member</b>    |
| ) | 2015 | University – Industry Partnerships Board               | <b>Secretary</b> |
| ) | 2014 | Directorate of Alumni Board                            | <b>Member</b>    |
| ) | 2013 | Directorate of Mentoring Board                         | <b>Member</b>    |

### MEMBERSHIP IN COMMITTEES AT KENYATTA UNIVERSITY

- ) 2017 MOU and WADHWANI Foundation project implementation committee (**Member**)
- ) 2016 Master of Ceremony team for the 41<sup>st</sup> Graduation Ceremony (**Team leader**)
- ) 2016 41<sup>st</sup> Graduation Ceremony Organizing Committee (**Member**)
- ) 2016 Adopt a community initiative (ACI) launch committee (**Member**)
- ) 2016 Reconstitution of the Student Work Induction program (SWIP) Committee (**Secretary**)
- ) 2016 Committee to Operationalize Applied Entrepreneurship Education and Service Learning Concept (**Member**)
- ) 2016 40<sup>th</sup> Graduation Ceremony Organizing Committee (**Member**)
- ) 2016 Committee to engage key stakeholders in health financing (**Member**)
- ) 2015 Committee to plan for the official opening of the Alumni Building (**Member**)
- ) 2015 39<sup>th</sup> Graduation ceremony organizing committee (**Member**)
- ) 2015 Committee to work with University Events Management
- ) 2015 Committee to work with Total Kenya on the Business Program Forum (**Member**)
- ) 2015 Sub –Committee to develop the 2015 – 2025 University strategic and vision plan for the Chapter on Alumni (**Convener**)
- ) 2015 Committee to develop the 2015 – 2025 University strategic and vision plan (**Member**)
- ) 2015 Committee to work on a Concept for the processing of Branded Bottled water by the University.
- ) 2015 Committee to write a proposal to source for funding for the semester abroad programme.  
**Member**
- ) 2015 Committee to spearhead Collaboration with Industrial & Commercial Development Corporation (ICDC)  
**Member**

- J 2015 Committee to work with Urbasolar on implementation of Solar Project at K.U. **Member**
- J 2015 Committee to meet with Peace for Africa and Economic Development (PAD) team and purpose the nature of collaboration. **Member**
- J 2015 Committee to work towards the development of a policy document to guide the various Partnerships & Collaborations. **Member**
- J 2014 Committee for planning for the official opening of the Campanile, Directorate Complex & Biochemistry laboratories. **Member**
- J 2014 Steering Committee to implement the introduction of the STEP initiative to the Counties **Chair**
- J 2014 Committee to plan for the launch of Kenyatta University Consultancy Services. **Member**
- J 2014 Committee to develop a Strategic Plan for the Directorate of University – Industry Partnerships. **Member**
- J 2014 Committee to develop a strategic plan for the centre for International programmes and collaborations **Member**
- J 2014 Committee on official launch of Master of Economics (Cooperation & Human Development) **Member**
- J 2014 36<sup>th</sup> Graduation ceremony organizing committee **Member**
- J 2014 Opening of new administration building and graduate school by H.E the president **Member**
- J 2014 Committee on launching teacher-student mentorship programme **Member**
- J 2014 Launch of Korean language and culture center at KU **Member**
- J 2014 Planning committee for the 6<sup>th</sup> ICAT conference on appropriate technology **Member**
- J 2013 Framework for Internationalization of Doctoral Education (FRINDOC) **Leader**
- J 2013 Committee to develop curriculum for National Police Service **Member**
- J 2013 Committee for proposal to RBA **Member**
- J 2013 Committee on promotional materials (2013/2014) **Member**
- J 2013 34<sup>th</sup> Graduation Organizing Committee (MC)
- J 2013 University marketing committee **Member**
- J 2013 Workshops coordinating committee **Member**
- J 2013 KU Mentoring Programme **Board member**
- J 2012 KU mentoring Programme **Staff mentor**
- J 2012 33<sup>rd</sup> Graduation Organizing Committee **MC**
- J 2012 KU Mentoring Programme **Board member**
- J 2012 Committee on promotional materials (2012/2013) **Member**
- J 2012 Committee on Next Generation of Academic and Researchers Network (NGARN) **Member**
- J 2011 Planning committee SPAS Kitui Campus Open day **Member**

**Research interests**

- J Food interventions for management of various health conditions including vitamin A deficiency, HIV and cancer.

- ) Environmental management including soil, water, air analysis
- ) Analysis of foods and other consumer products, for heavy metals and essential elements
- ) Development of analytical methods for determination of trace elements
- ) Investigation of substances including plants for organic farming

### **LIST OF ACADEMIC THESIS**

1. **Mildred P. Nawiri (2008)**. Effect of dehydration on Bioavailability and bioconversion of serum beta-carotene among preschool children. PhD Thesis, Kenyatta University, Chemistry Department.
2. **Mildred Pauline Oyugi (2000)**. Heavy metal and Pesticides in Marine sediment, seawater and seaplants along the Kenya-Mombasa Coastline. MSc Thesis. Kenyatta University, Chemistry Department.

### **LIST OF BOOK CHAPTERS**

1. **Nawiri, M.P., Aywa, K., and Nyambaka, H.N. (2013)**. The micronutrient content in coloured varieties of sweet potatoes (*Ipomea batatas*) grown in Vihiga County, Kenya. In Trends and opportunities in the production, processing and consumption of staple food crops in Kenya. Edited by Onyango, C., Unbehend, G., and Lindhauer M. Deutsche nationalbibliothek Publisher, Germany. 95-105.
2. Nyambaka, H.N and **Nawiri, M.P (2013)**. Indegenous vgetables: An excellent source of vitamin A. In Vitamin A and Vitamin E; daily resuirements, daily, dietary sources and symptoms of deficiency. Edited by Leon De Smet and Mathis Claes. Nova Science Publishers, Newyork. Pg 105-122.

### **LIST OF SCIENTIFIC PUBLICATIONS**

1. Okello, P.O., **Nawiri, M.P.**, Musila, W. and Gweyi-Onyango, J.P. (2017). Water Stress Effect on Total Antioxiant Activity and Total Phenolic Content of *Solanum scabrum Mill* and *Solanum scabrum* in Kiambu, Kenya International Journal of Biochemistry Research & Review 17(1): 1-9.
2. Ogembo O.J, **Nawiri, P**, Musila, W and Gweyi-Onyango, J.P (2017). Effect of Phosphorus Deficiency on Phenolics and Antioxidants Content of Two African Nightshade Varieties Grown in Kenya. International Journal of Plant & Soil Science 15(3): 1-11.
3. Mobegi, E.K, Nyambaka, H.N and **Nawiri, M.P (2017)**. Levels of polycyclic aromatic hydrocarbons in water from Nairobi river, Nairobi County-Kenya."(ST1704-012) The International Journal of Science and Technology (Paper Accepted in April 2017-*In Press*).
4. Obumba, M., Nyambaka, H.N and **Nawiri, M.P (2017)**. Levels of lutein increase with room temperature storage of smooth cayenne *Ananas Comosus* grown in different counties of Kenya. African Journal of Food Science. (paper accepted in April 2017-*in press*).
5. Salano, O.A., Makonde, H.M., Kasili, R.W., Wangai, L.N., **Nawiri, M.P** and Boga, H.I (2017). Diversity and distribution of fungal communities within the hot springs of soda lakes in the Kenyan rift valley. African Journal of Microbiology Research (Paper Accepted in April 2017-*In Press*).
6. Ojiambo, O.C., **Nawiri, M.P.** and Masika, E. (2017). Reduction of cyanide levels in sweet cassava leaves grown in Busia County, Kenya based on different processing methods Food Research (*In Press*)

7. Mbakaya, C., Nyambaka, H., Waudu, J., **Nawiri, M.**, Amukoye, E., Orege, P., Kisingu, W., Koech, D., Ndiege, I., Mpoke, S., Mwangi, M., Wanzala, P, and Muniu, E (2016). Effects of Mega Dose Micronutrient Supplementation On Serum Zinc, Retinol and Immune Status of Adult Males and Females Diagnosed with and Without HIV, Malaria and TB in Western Kenya – An Unpublished Perspective as at The Year 2004. *EC Nutrition* 4.5 967-979.
8. Mobegi, E.K, Nyambaka, H.N and **Nawiri, M.P** (2016). Physico -Chemical Characteristics and levels Of Polycyclic Aromatic Hydrocarbons in untreated water from Ngong River, Kenya. *Journal of Pollution Effects & Control* 4: 163. doi:10.4172/2375-4397.1000163.
9. Hena, J.Y. Jr., Andala, D.M., Nyambaka, H.N. and **Nawiri, M.P.** (2016). Carotenoid Levels, Total Phenolic Content and Antioxidant Activity Variations in Varieties of *Citrullus lanatus* under Storage at Room Temperature. *International Journal of Biochemistry Research & Review* 9(3): 1-9.
10. Kamau, T., Nyambaka, H.N and **Nawiri, M.P** (2015). Understanding Geophagic Practice as a Source of Mineral Nutrients and Toxicants. *International Journal of Modern Chemistry and Applied Science* 2(4), 208-210
11. Odhiambo, V.O., Wanjau, R., Odundo, J.O and **Nawiri, M.P.** (2015). Toxic trace elements in different brands of milk infant formulae in Nairobi market, Kenya. *African Journal of Food Science* Vol. 9(8), pp. 437-440
12. Njiru, M.K., Odundo, J.O., Wanjau, R.N and **Nawiri, M.P** (2014). Exploring the nutraceutical values of residues of *Mangifera Indica L.* grown in Embu County, Kenya. *Journal of Kenya Chemical Society Vol 8: (1)83-88.*
13. Onyambu, Z.M., **Nawiri, M.P.**, Kareru, P and Wanjau, R. (2014). Levels of selected heavy metals in Aloe Vera branded herbal soaps sold in the Kenya market. *Journal of Kenya Chemical Society Vol 8: (1) 98-102.*
14. Odundo, J. O., Oyoo, D. and **Nawiri, M. P** (2013).The artemisin potential of leaves from cultivars and wildlings of *Artemisia annua L.* grown in Western Kenya *International Journal of Education and Research Vol. 1 No. 7 1-10.*
15. Odundo, J. O., Oyoo, D. and **Nawiri, M. P.** (2013).The artemisin potential of flowers from *Artemisia annuaL.* grown in Western Kenya. *Industrial Crops and Products* 49 233– 236.
16. **Nawiri, M.P.**, Nyambaka, H.N. and Murungi, J.I. (2013). Sundried cowpeas and amaranthus leaves recipe improves beta-carotene and retinol in serum and hemoglobin concentration among preschool children. *European Journal of Nutrition*52 (2) 583-589 doi 10.1007/s00394-012-036-2.
17. Aywa, K., **Nawiri, M.P.** and Nyambaka, H.N. (2013). Nutrient variation in coloured varieties of *Ipomea batatas* grown in vihiga county, western Kenya. *International Food Research Journal.* 20(2): 819-825.
18. Muiruri, J.M., Nyambaka, H. N. and **Nawiri, M. P.** (2013). Heavy metals in water and tilapia fish from Athi-Galana-Sabaki tributaries, Kenya. *International Food Research Journal,* 20(2): 891-896.
19. **Nawiri, M.P.**, Muturi, I.K., Bichanga, R. and Murungi, J.I. (2012). Essential antioxidant elements in oils of the cake and shell of *calodendrum capensenuts*. *Analytical Chemistry Letters*2 (4) 240 – 243.
20. Nyambaka, H.N., Nderitu J., **Nawiri, M.P** and Murungi J.I. (2012). Use of kitchen steel wool as oxygen absorber improves storage retention of beta-carotene in solar-dried vegetables. *Mediterranean Journal of Chemistry,* 1 (6) 326-333.

21. Bor, S.K., Simbauni, J.A., **Oyugi, M.P.**, Njue, W.M and Chhabra, S.C (2007). Organochlorine residues in tissues of marine fauna along the coast of Kenya-Mombasa Island. Bull. Chem. Soc. Ethiopia, 21(1), 145-149.
22. **Oyugi, M.P.**, Chhabra, S.C., Njue, W.M and Kinyua, A (2003). Heavy metal and Pesticides in Marine sediment, seawater and seaplants along the Kenya-Mombasa Coastline. J. of Trace Microprobe Techniques, Vol 21 No. 1.pp.147-159.

#### **LIST OF PUBLISHED KU MODULES**

- i. **Nawiri, M.P** (2012). SCH 551: Advanced Separation techniques. Kenyatta University Press.
- ii. Nyambaka, H.N. and **Nawiri M.P** (2012). SCH 404: Instrumental methods. Kenyatta University Press.
- iii. Nyambaka, H.N., Murungi J.I., and **Nawiri M.P** (2007). SCH 103: Introduction to classical analysis and separation techniques. Kenyatta University Press

#### **JOURNAL REFERRING/REVIEWING**

- ) **2017 Asian Journal of Biotechnology and Bioresource Technology**
  - o Manuscript Title: Optimization of phenolics and carotenoids extraction from leaves of Passiflora edulis using response surface methods
- ) **2016 Journal of Kenya Chemical Society**
  - o Manuscript Title: Extraction and characterization of yellow oleander (*thevetia peruviana*) seed oil, meal and analysis of eggshells' catalyst as a potential feedstocks for biodiesel production in Kenya
- ) **2016 Journal of Ecology and the Natural environment**
  - o Manuscript Title: Assessment of Honey source bee floras during major and minor honey harvesting seasons in Jimma zone, Southwest Ethiopia
- ) **2016 Asian Journal of Biology**
  - o Manuscript Title: Detection of heavy metals in breast milk and drinking water in Damietta Governorate, Egypt
- ) **2016 International Journal of Marine Science**
- ) **2015 Journal of Kenya Chemical Society**
- ) **2013 International Food Research Journal (ISSN 1985-4668)**
- ) **2013 International Journal of Medicine and Medical Sciences**

**POSTGRADUATE SUPERVISION****Master of Science COMPLETE supervisions-Kenyatta University.**

<b>SNo.</b>	<b>Name</b>	<b>Reg. No.</b>	<b>Title of Thesis</b>	<b>Degree/Institution</b>	<b>Department</b>	<b>Year/Month Graduated</b>
1)	Charles Ojiambo Ogombe	I56/CE/23844/12	Variation of Cyanide Levels in Sweet Cassava Leaves Based on Different Processing methods	MSC - KU	Chemistry	<b>Awaiting Graduation</b>
2)	Mungai Zipporah Murugi	I56/22808/2011	Studies on Retention of beta-carotene extracted from Amaranthus species preserved in virgin coconut oil and unadulterated honey	MSC-KU	Chemistry	<b>2016 Dec</b>
3)	Kamau Tabitha Wanjiru	I56/15434/2009	Quantification of selected essential and toxic minerals in geophagic materials in Kiambu County, Kenya	MSC-Kenyatta University (MSC-KU)	Chemistry	<b>2016 Jul</b>
4)	Obumba Maxwell Ouma	I56/25158/2011	Variation of Carotenoids, Total Phenolics and antioxidant activity levels in <i>Ananas comosus</i> from different counties in Kenya with duration of storage	MSC-KU	Chemistry	<b>2015 Dec</b>
5)	Ogembo Joel Oyaro	A144/22964/2012	Effects of phosphorus deficiency on secondary metabolites and distribution of African nightshade distribution in Siaya and Kisii Counties, Kenya	MSC-KU	Agricultural Science and Technology	<b>2015 Dec</b>
6)	Peter Wasike	I56/CE/1203/2007	Analysis of selected heavy metals in water from river Kuywa and adjacent wells in Bungoma Central sub-County-Kenya	MSC-KU	Chemistry	<b>2015 Dec</b>

7)	Mobegi Erick Kiage	I56/CE/23359/2010	Levels of physio-chemical parameters and polycyclic aromatic hydrocarbons in water from Ngong and Nairobi rivers, Nairobi County-Kenya	MSC-KU	Chemistry	2015 July
8)	John Y. Hena, Jr	I56F/22521/2012	Effect of room temperature storage on the levels of carotenoids, total phenolic content and antioxidant activity of <i>Lycopersicon esculentum</i> and <i>Citrullus lanatus</i>	MSC-KU	Chemistry	2015 July
9)	Odhiambo Okello Peter	A144/23192/2012	Effects of water stress on antioxidant activity and phenolic contents of African Nightshades and their distribution in Kisii, and Siaya Counties of Kenya	MSC-KU	Agricultural Science and Technology	2015 July
10)	Silva Jerono Chebet	I56/CE/22219/2010	Assessment of the levels of Thiocyanate processed and unprocessed red and brown finger millet ( <i>Eleusine Coracana</i> ) grown in Mogotio area, Baringo County, Kenya	MSC-KU	Chemistry	2014 Dec
11)	Onyambu Zipporah Moraa	I56/CE/14149/09	Determination of heavy metals in Aloe vera lotions, creams and soaps in the Kenyan market	MSC-KU	Chemistry	2014 July
12)	Odhiambo Vincent Otieno	I56/CE/14215/09	Assessment of levels of selected metals, nitrates and nitrites in some infant formula milk in Kenyan market	MSC-KU	Chemistry	2014 July
13)	Michael Kariuki Njiru	I56/CE/14204/09	Residues of selected varieties of <i>Mangifera indica</i> grown in Mbeere south	MSC-KU	Chemistry	2014 July
14)	Mwangi	I56/CE/14205/09	Determination of selected heavy	MSC-KU	Chemistry	2013 Dec



	John Muiruri		metals in tilapia fish, sediments and water in Athi river selected tributaries, Kenya			
15)	Irene Kirigo Muturi	I56/CE/14905/09	Determination of concentration of selected antioxidant vitamins and essential elements in <i>calodendrum capense</i> nuts grown in Nyeri County, Kenya	MSC-KU	Chemistry	2013 July
16)	Joseph Ochieng Odundo	I56/CE/14147/09	Quantification of artemisinin in cultivars and wildlings of <i>Artemisia annua l.</i> In Western Kenyan soils	MSC-KU	Chemistry	2013 July
17)	Kennedy Amukoye Away	I56/CE/10086/08	Assessment of Variability of selected nutrients in varieties of sweet potatoes grown in Vihiga County, Kenya	MSC-KU	Chemistry	2012 Dec

#### Doctor of Philosophy (PhD) ONGOING supervisions-Kenyatta University

SNo.	Student Name	Reg. No.	Title of Thesis	Degree/Institution	Department	Status
1)	Joseph Bwire Skudi	I84/25993/2011	Near infrared chemometric models for rapid screening of Aflatoxins in the maize flour	PhD-KU	Chemistry	Labwork
2)	Wakhanu John Akello	I84/28573/2014	Effect of nutrition-sensitive intervention with indigenous vegetables on beta-carotene, zinc and iron levels of pre-teen children in Kangundo sub-county, Kenya	PhD-KU	Chemistry	Labwork
3)	Kang'iri Jacqueline	I84/22201/2012	Development of a reference material evaluation of levels of selected chemical contaminants in black teas in	PhD-KU	Chemistry	Labwork

4)	Ngorwe Evans Nyaenya	I84/28935/2013	the Kenyan Market “Effects of Nano-Fertilizer Absorption on Cadmium & Lead, Growth Performance & Nutrient Uptake of Selected Crops”	Ph.D - KU	Chemistry	<b>Lab work</b>
5)	Onyambu Zipporah Moraa	I84/32244/2015	Simulated Bioavailability studies of Vitamin A and the B series in selected African Indigenous Vegetables in Kenya	Ph.D - KU	Chemistry	<b>Labwork</b>
6)	Anyango Beatrice	I84/31349/2015	Efficiency of Endod Saponins-Zeolite Composite in water purification: A case of Ground water sources in Kisumu County, Kenya	Ph.D - KU	Chemistry	<b>Labwork</b>

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**Master of Science ONGOING supervisions-Kenyatta University.**

<b>SNo.</b>	<b>Student Name</b>	<b>Reg. No.</b>	<b>Title of Thesis</b>	<b>Degree/Institution</b>	<b>Department</b>	<b>Status</b>
1)	Basweti Judy Kwamboka	I56/CE/14209/2009	Pollution levels of 16 priority polycyclic aromatic hydrocarbons in water, soil and sediment from a section of River Nzoia, Kakamega County-Kenya	MSC-KU	Chemistry	<b>Thesis submission</b>
2)	Nderitu Samuel Muturi	I56/CE/26891/2011	Stability of extractable beta carotene from underutilized indigenous vegetables in edible oils	MSC-KU	Chemistry	<b>Thesis submission</b>
3)	Muanje Abdulwakil Daudi	I56/CE/15055/2008	Determination of levels of mercury, Hydroquinone, Kojic acid, Arbutin and selected corticosteroids in skin lightening cosmetics in Mombasa, Kenya	MSC-KU	Chemistry	<b>Thesis submission</b>
4)	Otieno Caleb Duya	I56/CE/21450/2012	Variation of Vitamins A and C in Leaves of Amaranthus Hybridus (L)	MSC- KU	Chemistry	<b>Thesis submission</b>
5)	Muriuki Joyce Nyathuta	I56/CE/24669/2012	Effect of Solar Drying on vitamins from selected Indigenous fruits and Vegetables stored with coconut Oil Coating in Kilifi County, Kenya	MSc-KU	Chemistry	<b>Labwork</b>
6)	Mitei K Robert	I56/CE/28299/2013	Nanoparticles-Based Biosensor for Detection of Methanol in Alcoholic Drinks	MSc-KU	Chemistry	<b>Labwork</b>
7)	Okindo Philemon	I56/CE/26224/2011	Effect of different processing and preservation methods on carotenoid retention of	MSc-KU	Chemistry	<b>Lab work</b>

8)	Bett Peter Kipkemoi	I56/CE/11202/2007	selected vegetables in Kenya Levels of selected essential elements at different stages of growth in some cattle feeds from Chepalungu, Kenya	MSC-KU	Chemistry	<b>Drafting thesis</b>
9)	Oundo Edwin Nandeke	I56/CE/11213/2007	Determination of levels of selected toxic heavy metals in water from Lake Bogoria	MSC-KU	Chemistry	<b>Drafting thesis</b>
10)	Okore Sayvone Nyauchi	I56/CE/14211/2009	Analysis of selected heavy metals in greenhouse soils and varieties of vegetables grown in Thika, Kiambu County, Kenya	MSC-KU	Chemistry	<b>Drafting thesis</b>

### **UNDERGRADUATE PROJECT SUPERVISION**

<b>SNo.</b>	<b>Student Name</b>	<b>Reg. No.</b>	<b>Title of Project</b>	<b>Institution/ Department</b>	<b>Year</b>
1.	Adakha John	I71/1980/07	Analysis of selected heavy metals in homemade brews from Kakamega County	Kenyatta University (KU) - Chemistry	2010/11
2.	Moses NjagiKibugi	I73/0722/08	Comparative analysis for selected locally available and imported sugar brands	KU-Chemistry	2011/12
3.	MornaAwuorObuya	I71S/8637/07	Analysis of selected essential elements in <i>azadirachtaindica</i> ( <i>neem</i> ) leaves	KU-Chemistry	2011/12
4.	Erastus Ndung'uKariuki	I71/1967/07	Determination of toxic metals in domestic effluents discharging into Thika River	KU-Chemistry	2010/11
5.	Lillian C. Koech	I73/0693/09	Investigating of non-nutritive sugars and preservatives in juices in Kenyan Markets	KU-Chemistry	2012/13

**INTERNAL THESIS EXAMINATION**

<b>SNo.</b>	<b>Year</b>	<b>Student Name</b>	<b>Title of Thesis</b>	<b>Degree</b>	<b>Institution</b>	<b>Department</b>
1)	<b>2016</b>	Maurice Muteti Muli	Effects of Soil type, pH and distance on levels of selected heavy metals in plants and soils along Nairobi-Nakuru Highway	MSc	KU	Chemistry
2)	<b>2015</b>	Evans Choi Choi	Levels of macronutrients in pumpkin varieties (cucurbita spp) Grown in the lake Victoria Basin	MSc	KU	Chemistry
3)	<b>2015</b>	Stanlaus Manyengo Lusambili	Physico – Chemical characterization of raw clays used in pottery at Ilesi in Kakamega County – Kenya	MSc	K.U	Chemistry
4)	<b>2014</b>	Grace Kwamboka Abere's	Assessment of active skin lightening compounds in some facial creams and soaps in kenya	MSc	KU	Chemistry
5)	<b>2014</b>	Gloria Reuben	Assessment of the impact of industrial effluents on the water quality in Karanga river, Tanzania	MSc	KU	Geography
6)	<b>2014</b>	Mohamed Jokha Salum	Agrochemical residues on water quality in Weruweru sub-catchment, Tanzania	MSc	KU	Geography
7)	<b>2013</b>	Nyamu N. Samuel	Determination of selected trace elements and beta-carotene in some solar dried indigenous vegetables as potential food supplement in Kiambu, Kenya	MSc	KU	Chemistry
8)	<b>2013</b>	Wakhanu John Akello	Levels of selected micronutrients and antinutrients in recipes formulated from underutilised local vegetables in Lake Victoria basin	MSc	KU	Chemistry
9)	<b>2013</b>	Ireri Sailus Mugendi'	Determination of the levels of selected heavy metals in khat( <i>cathaedulis forsk</i> ) grown in Kenya	MSc	KU	Chemistry
10)	<b>2013</b>	Faith Mburu's	Potential toxic levels of cyanide in cassava manihote sculentacrantz grown in some parts of Kenya	MSc	KU	Chemistry

11)	2013	Sabina WanguiNgigi's	Evaluation of selected nutrients in some mulberry varieties grown at KARI station-Thika Kiambu County	MSc	KU	Chemistry
12)	2013	MbithiKameti	Determination of lead and cadmium in paints used in buildings from Nairobi county, Kenya	MSc	KU	Chemistry
13)	2013	Salano Eric Miheso	Assessment of heavy metals pollution in soils and water of Samburu County, Kenya	MSc	KU	Chemistry
14)	2012	Hassan Mwatsahu Salim	Status of heavy metals in water, sediments, and fauna of selected areas along the Kenyan Coastline	MSc	KU	Chemistry
15)	2012	Rose BhokeOyugi	Studies of pesticide residues in some vegetables rotated with tobacco ,and farmers ' awareness of pesticide effects in Kuria – Migori, Kenya	MSc	KU	Chemistry
16)	2012	Mutua Simon Mutuku	Speciation of lead, cadmium and zinc in garage soils and levels in nearby stream and vegetable of Machakos town Kenya	MSc	KU	Chemistry
17)	2012	Muli David Musyoka	Quantification of B-carotene, lycopene and B-cryptoxanthin in different varieties of mangoes in Machakos county	MSc	KU	Chemistry
18)	2011	Rachel WanjiruNambafu	Assessment of Bioavailability of Vitamin A, C and E in selected indigenous food and their potential use in the management of HIV and AIDS	MSc	KU	Chemistry
19)	2011	Ester WanjaNthiga	Determination of selected essential elements in three varieties of watermelons from Githurai and Mwea markets in Kenya	MSc	KU	Chemistry
20)	2011	Peter Ouma Lusi	Determination of bio availability of selected trace elements from indigenous foods and their potential use on management of HIV and AIDS	MSc	KU	Chemistry

### **EXTERNAL THESIS EXAMINATION**

<b>SNo.</b>	<b>Year</b>	<b>Student Name</b>	<b>Title of Thesis</b>	<b>Degree</b>	<b>Institution</b>	<b>Department</b>
1)	2016	Munyiri Caroline Njeri	Analysis of milk for nutrients in zero grazed	MSc	JKUAT	Chemistry

2)	2016	Elijah Odumbe Onono	exotic and free range indigenous cows in Kajiado County, Kenya	MSc	JKUAT	Chemistry
3)	2015	Aloys Mosima Osano	The Levels of selected heavy metals in solid wastes and their environmental pollution effects in Bungoma Town, Kenya	PhD	JKUAT	Chemistry
4)	2015	Peter Ngugi Kariuki	Cellulosic ethanol synthesis as a biofuel from locally available agricultural weeds and residues using indigenous basic mineral salt hydrolytic regimes	MSc	JKUAT	Chemistry
5)	2015	Chege Benardatte Wairimu	Glycerol supplementation effect on biogas production from selected organic wastes	MSc	JKUAT	Chemistry
6)	2012	Mbiri Anne	Analysis of radiation levels in nairobi's central bussiness disctrict (CBD) and the industrial area	MSc	JKUAT	Chemistry
			Study of oxalate metabolism in <i>Scleretinia Sclerotiorum</i> collected from soybeans and soils	MSc	JKUAT	Chemistry

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### **CONFERENCES/ SEMINARS / WORKSHOPS/SYMPOSIUM**

- 1) The 10<sup>th</sup> Kenya Chemical Society International Conference 9<sup>th</sup>-12<sup>th</sup> May **2017**. United States International University (USIU)-Africa. **Theme:** ‘The Role of Chemistry in Inventing a Sustainable Future’.
  - J **Paper presented:** Muturi S.N, Nawiri, M.P and Nyambaka, H.N. Retention of extractable beta carotene from indigenous vegetables *Asystasia mysorensis* and *Solanum nigrum* in sunflower and palm oils (**Awarded Royal Society of Chemists (RSC) poster winners’ prize**)
  - J **Paper presented:** Basweti K.J, Nawiri, M.P and Nyambaka, H.N. levels of polycyclic aromatic hydrocarbons in water, sediment and soil from a section of River Nzoia, Kakamega County-Kenya (**Awarded RSC poster winners’ prize**)
  - J **Paper presented:** Muanje, A.D, Nawiri, M.P and Wanjau, R.N. Determination of skin lightening agents in skin lightening cosmetics sold in Mombasa County
  - J **Paper presented:** Duya, C.O, Nawiri, M.P and Wafula, W.A. Variation in Levels of Vitamins A and C with Maturity of *Amaranthus hybridus* (L) Leaves Grown in Different Soil - types in Kwale County, Kenya
- 2) NIMR 30<sup>th</sup> Annual Joint Scientific Conference 4<sup>th</sup>-6<sup>th</sup> October, **2016** Julius Nyerere International Convection, Tanzania.
  - J **Paper presented:** Nawiri, M.P, Hena, J., Andala, D.M and Nyambaka, H.N “Storing fruits of *solanum lycopersicum* at room temperature affects carotenoid levels, total phenolic content and antioxidant activity.
- 3) Symposium on Women in Chemistry, organized by the Organization for the Prohibition of Chemical Weapons (OPCW); The Hague, The Netherlands, 17 May **2016**.
- 4) Humboldt “Kolleg” 2016 Held in Naivasha, Kenya April 6 – 8 , **2016**.
  - J **Paper presented:** Nawiri, M.P, *et al* “Carotenoid levels, Total Phenolic Content and Antioxidant Activity Variations in Varieties of *Citrullus lanatus* under Storage at Room Temperature”. Theme: “Research and Networking: Laying the Foundation for the Sustainable Development Goals”
- 5) The 4<sup>th</sup> Africa food & Nutrition Forum October 27<sup>th</sup> – 29<sup>th</sup>, **2015** Addis Ababa, Ethiopia:
- 6) Certificate of participation: Chemical Inventory management Systems (CIMS) Workshop (24<sup>th</sup> – 28<sup>th</sup> August. **2015**)
- 7) STEP Train- the Trainer Workshop **September 7<sup>th</sup> to 9<sup>th</sup> September, 2015**
- 8) UNESCO/UNITWIN Chairs Consultative and Sensitization forum, April 22<sup>nd</sup> 2015. University of Nairobi.
- 9) AGGN workshop on Good Governance in post 2015. Held at Best Western Hotel, Nairobi on 16<sup>th</sup> January **2015**.
- 10) Ministerial Forum for Ministers of Social Development for Eastern African Region 24<sup>th</sup> – 26<sup>th</sup> February **2015**, Nairobi Kenya.
- 11) Nomination to attend a meeting on students attachment, Internship and Partnership with the private sector organized by Ministry of Education, Science .
- 12) Framework for the internalization of Doctoral education (FRINDOC) Induction working Group at University of Bergen, Norway, 13<sup>th</sup> -14<sup>th</sup> February **2014**



- 13) KDSA/DAAD Scientific paper Writing workshop held at Kenyatta University Conference center on 24<sup>th</sup>-27 July **2013**.  
J **Paper presented:** Where do I publish my research paper?
- 14) Kenya Industrial Research and Development Institute (KIRDI) and Max Rubner-Institut (MRI) Conference on Trends and opportunities in the production, processing and consumption of staple food crops in Kenya held at the Intercontinental Hotel, Nairobi on 25<sup>th</sup>-26<sup>th</sup> April **2013**.  
J **Paper presented:** Nawiri, MP., Nyambaka HN and Away K “The nutrient content in colored varieties of Ipomeabatatas grown in Vihiga, Kenya.
- 15) Pittsburg Conference on Analytical Chemistry & Applied Spectroscopy (Pittcon). 2013 held at the Pennsylvania Convention Center in Philadelphia, Pennsylvania on March 17-21, **2013**. (Participated).
- 16) International Science And Technology Conference (ISTEC) held at Dubai, United Arab Emirates (UAE) on 13<sup>th</sup> -15<sup>th</sup> December **2012**.  
J **Paper presented:- Nawiri M.P.**, Oyoo, D and Odundo, J. O. “ The artemisinin potential of leaves from cultivars and wildlings of *Artemisia annua*L. grown in Western Kenya”
- 17) Kenya DAAD Scholar’s Association Conference held at Egerton University on 15<sup>th</sup>-16<sup>th</sup> November **2012**.  
J **Paper presented:-Nawiri M.P.**, Nyambaka, H. and Aywa, K. “Nutrient content in colored varieties of ipomeabatatas”.
- 18) The 7<sup>th</sup> International Conference of the Kenya Chemical Society held at Botanic Garden Maseno University, Kenya on 15<sup>th</sup> -18<sup>th</sup> October, **2012**.  
J **Paper presented:- Odundo, J. O.**, **Nawiri M.P.** and Oyoo, D “ The artemisinin potential of leaves from cultivars and wildlings of *Artemisia annua*L. grown in Western Kenya”
- 19) Biosafety Sensitization workshop organized by KUIBC held at Kenyatta University on 22<sup>nd</sup> August, **2012(Participated)**.
- 20) 4<sup>th</sup> Africa Nutritional Epidemiology Conference held at Safari park hotel, Nairobi, Kenya on 4<sup>th</sup> -8<sup>th</sup> October **2010**. **Theme** “Nutrition and Food security: Success and emerging challenges.  
J **Paper presented:-Nyambaka, H, Nawiri M, et al.** The nutritive value of indigenous vegetables in the lake Victoria basin in relation to HIV/AIDS management.
- 21) African Women in Science and Engineering (AWSE) Conference held at Monetary Studies College, Kenya on 18<sup>th</sup> -20<sup>th</sup> August, **2010**. **Theme** “A decade into the 20<sup>th</sup> Century: The contribution of African Women Scientists and Engineers.  
J **Paper presented:-Nawiri, M.P**, Nyambaka H. and Murungi J.I. Effect of Dehydration of dark green leafy vegetables on bioavailability of serum beta-carotene among preschool children.
- 22) 1<sup>st</sup> East African Regional Scientific Conference of Pure and Applied Sciences held at Kenyatta University Students Bussiness Centre on 10<sup>th</sup>-14<sup>th</sup> August, **2010**. **Theme** “The role of biological, physical and applied sciences in mitigating global climate change and achieving the millennium development goals”

- ) **Paper presented:-Nawiri, M.P**, Nyambaka H. and Murungi J.I. Effect of dehydration of dark green leafy vegetables on bioavailability of serum retinol among preschool children.
- 23) KU Mentors' Seminar, 26th March **2008** at KUCC (**Participated**)
- 24) Multidisciplinary course in tropical freshwater Ecosystems management at Kenya Wildlife Training Institute, Naivasha, Kenya, 4<sup>th</sup>-31<sup>st</sup> August, 2003.
- ) **Paper presented:-Oyugi, M.P**, Njue W and chhabra S.C (1999). Heavy metal and Pesticides in Marine sediment, seaplants and seawater along the Mombasa Coastline.
- 25) The 3<sup>rd</sup> Kenya Chemical Society International Conference at JKUAT, 16<sup>th</sup> -20<sup>th</sup> August **1999**.
- ) **Paper presented:-Oyugi, M.P**, Njue W and chhabra S.C (1999). Heavy metal and Pesticides in Marine sediment, seaplants and seawater along the Mombasa Coastline.

### **TRAININGS**

- 1) Development Research Uptake in Sub-Saharan Africa (DRUSSA) course for Trainers on research Uptake held in Nairobi, 5<sup>th</sup> -6<sup>th</sup> September **2016**
- 2) The Chemical Inventory Management Systems (CIMS) Workshop Held at University of Nairobi 24<sup>th</sup> -28<sup>th</sup> August **2015**.
- 3) The industrial Chemical Security Workshop 3<sup>rd</sup> – 6<sup>th</sup> August, **2015**, Ole Sereni Hotel, Nairobi
- 4) Advanced Chemical Safety and Security Workshop 28<sup>th</sup> – 30<sup>th</sup> April, **2015**, Chiromo, University of Nairobi.
- 5) African Visionary Leadership Training Course held by the Regional`2zss Institute of gender, Diversity, peace and Rights (RIGDPR) at Ahfad University for women (AUW), Sudan from 1<sup>st</sup> -6<sup>th</sup> November, **2014**.
- 6) 2012 Visiting Fellows program hosted by Novartis Institute for Biomedical Research (NIBR) and Seeding Labs, LLC held between June-August **2012**, Boston, MA, USA.
- 7) 2012 Seeding Labs grant writing curriculum held between June-August **2012**, Boston, MA, USA.
- 8) DIES-Training: "Proposal Writing for International Research Projects" Second Part: April 9th-14th, **2012** in Naivasha, Sawela Lodge, Kenya.**Proposal presented:-** Phytochemical compounds and nutrients in varieties of fresh and dehydrated indigenous vegetables and fruits grown in Kenya.
- 9) DIES-Training: "Proposal Writing for International Research Projects" First Part: November 20<sup>th</sup> -25th, **2011** in Nairobi, Kenya. DAAD Annual conference held on 16th November, 2011 at Silver Springs Hotel, Nairobi, Kenya. **Theme:-** Capacity Development for the County Governments in the New Constitutional Dispensation in Kenya. Kenyatta University Capacity building seminar for staff mentors at Business and students Services Center, 31<sup>st</sup> August **2010**. (**Participated**).
- 10) Catholic University of Eastern Africa Faculty of Science needs assessment training workshop at Kolping Organization of Kenya, 7<sup>th</sup> May, **2010** (**Participated**)

### **CONVENING AND COORDINATING CONFERENCES/WORKSHOPS/SEMINARS/TRAININGS**

- 1) **2017: Member of the Local Organizing Committee** for the The 10<sup>th</sup> Kenya Chemical Society International Conference Held 9<sup>th</sup> -12<sup>th</sup> May at United States International University (USIU)-Africa. Theme: ‘The Role of Chemistry in Inventing a Sustainable Future’
- 2) **2016: Coordinator and Trainer** in the Student Training for Entrepreneurship Training for Youth (STEP-4Y) in *Kisumu County*, Kenya. January-March 2017. Sponsored by Kenya National Commission for UNESCO (KNATCOM) and Kenyatta University.
- 3) **2016: Coordinator and Trainer** in the Student Training for Entrepreneurship Training for Youth (STEP-4Y) in *Nakuru County*, Kenya. June-August, 2016. Sponsored by Konrad Adeneur Stiftung (KAS), Kenya and Kenyatta University.
- 4) **2016: Coordinator and Trainer** in the Student Training for Entrepreneurship Training for Youth (STEP-4Y) in *Mombasa County*, Kenya. February-March, 2016. Sponsored by Kenya National Commission for UNESCO (KNATCOM), UNESCO Regional Office for Eastern Africa and Kenyatta University.
- 5) **2015: 2016: Coordinator** in the Student Training for Entrepreneurship Training for Youth (STEP-4Y) in *Kiambu County*, Kenya. November-December, 2015. Sponsored by UNESCO Regional Office for Eastern Africa and Kenyatta University.
- 6) **2014: Coordinator** in the Student Training for Entrepreneurship Training (STEP) at Kenyatta University. Sponsored by Leuphana University, Germany and Kenyatta University.
- 7) **2012: Committee member** for the Inaugural Conference of Nanotechnology and Material Science Development in Kenya held on 18th – 21st July **2012** at Kenyatta University Conference Centre (KUCC) Nairobi Kenya.
- 8) **2011: Secretariat** for DAAD Annual conference held on 16th November, **2011** at Silver Springs Hotel, Nairobi, Kenya on Capacity Development for the County Governments in the New Constitutional Dispensation in Kenya.
- 9) **2011: Facilitator** for the Kenyatta University Venue at the Research Proposal Writing Training Workshop organized by The Kenya DAAD Scholars Association (KDSA), The Humboldt Alumni in Kenya, the REAL - UNISTAFF Alumni in Kenya and the IDC-UNILEAD Alumni together with the Graduate Schools of the various Universities in Kenya, DAAD Nairobi, the National Council of Science and Technology (NCST) and the Commission of Higher Education (CHE). Held on 16th and 17th September **2011** at various centres in Kenya.
- 10) **2010: Chairperson**, Catering sub-committee for the 1<sup>st</sup> Regional Conference of Pure and Applied Sciences at Kenyatta University Students Business Centre, 10<sup>th</sup>-14<sup>th</sup> August, **2010**
- 11) **2010: Secretary** of the committee organizing for DAAD workshop at Kenyatta University, August, **2010**.

#### CONSULTANCY

- 1) **STEP Trainer:** Student Training for Entrepreneurship Training for Youth (STEP-4Y) in Nakuru County, Kenya. June-August, 2016. Topic: Networking and overcoming barriers.

- 2) **STEP Trainer:** Student Training for Entrepreneurship Training for Youth (STEP-4Y) in Mombasa County, Kenya. February-March, 2016. Topic: Networking and overcoming barriers.
- 3) **Trainer:-** Quality Assurance & Quality Control for testing Laboratories towards ISO/IEC 17025:2005 Accreditation Course held from 28<sup>th</sup> -30<sup>th</sup> June 2016 at Kenya Water Institute (KEWI), Nairobi
- 4) **Resource Person:-**Chemical Safety and Security Training for University Technicians in Kenya –Technical University of Kenya, Nairobi, 15-17<sup>th</sup> Dec 2015
- 5) **Judge of scientific papers:-**The 3<sup>rd</sup> National Science, technology and Innovation week. Held at the KICC, Nairobi from 19<sup>th</sup>-23<sup>rd</sup> May, 2014.
- 6) **Facilitator** KDSA/DAAD Scientific paper Writing workshop held at Kenyatta University Conference center on 24<sup>th</sup>-27 July 2013.
- 7) **Judge of scientific papers:-**The 2<sup>nd</sup> National Science, technology and Innovation week. Theme “science, technology and innovation for the realization of Kenya Vision 2030 and beyond” held at the KICC, Nairobi from 13<sup>th</sup>-17<sup>th</sup> May, 2013.
- 8) **Trainer :-** Induction training for teaching practice mentor held on 28<sup>th</sup>-30<sup>th</sup> April 2013 at KUCC.
- 9) **Resource person:-**Training on mentorship for teacher mentors held at Kenyatta University, KUCC on 29<sup>th</sup>-30<sup>th</sup> April 2013.
- 10) **Resource person:-**AnABCIC, ASARECA and Kenyatta University five day training course on application of bioscience technologies in sorghum production and value addition held at Kenyatta University from 15<sup>th</sup> to 19<sup>th</sup> April 2013.
- 11) **Resource person:-**Curriculum Development for Bachelor of Science (BSc.) in Industrial Chemistry (Analytical Chemistry units) for Kimathi University College of Technology. February-September 2011.
- 12) **Resource Person:-** Training Analytical chemist of KEPHIS in Analysis of food additives (May 2010)
- 13) **Resource Person:-** Training Analytical chemist of KEPHIS in Elemental Analysis (May 2010)

#### **PARTICIPATION IN STAKEHOLDERS FORUMS**

- ✓ An Experts meeting for the development of Kenya’s capacity development action plan for the UNESCO-SIDA future earth initiative 4<sup>th</sup> May 2017 at KNATCOM-UNESCO.

#### **COMMUNITY OUTREACH**

- ] Master of ceremony during launch of the School of Architecture on 25<sup>th</sup> November, 2015.
- ] Master of ceremony: Invitation to open training for the youth on Entrepreneurship & Leadership skills sponsored by the ministry of Devolution & planning on 12<sup>th</sup> October, 2015.
- ] Master of ceremony preparations for September 2015 intake matriculation ceremony on Friday 11<sup>th</sup> September, 2015
- ] Master of ceremony to 2<sup>nd</sup> public lecturer for second semester 2014/2015 certificate in leadership development & mentorship on 7<sup>th</sup> March, 2015.

- ) Master of ceremony to 2<sup>nd</sup> public lecturer for second semester 2014/2015 certificate in leadership development & mentorship on 5<sup>th</sup> February, 2015.
- ) Book donation function held on 28<sup>th</sup> July 2012 at Hakati secondary School.
- ) Development projects of the St Cecilia Dahoro Catholic Church
- ) Community serve day of older persons at PCEA Women's Guild Thogoto Home for the Aged on 29<sup>th</sup> September 2012

**RESEARCH GRANTS/FUNDING**

<b>SNo.</b>	<b>Year</b>	<b>Title of research/position/team members</b>	<b>Donor</b>	<b>Purpose</b>	<b>Amount (Ksh)</b>
1)	2015		KU-Vice Chancellors Research Grant	Research	
2)	2014	Risks and opportunities associated with paying lumpsum pension benefits to retirees in Kenya: implications for income security <b>Position:</b> Researcher Team members (Kenyatta University) ) Prof. Mugenda, O.M (PI) ) Dr. Maina, L.W ) Prof. Kimani, E ) Dr. Muindi, D ) Dr. Wamburu, W	Retirement Benefits Authority	Research	3,000,000
3)	2014	Curriculum development for National Police Service <b>Position;</b> Member Team members (Kenyatta University) Dr. Maina, L Dr. Kavivya Dr. Nyerere	National Police service	Curriculum development	1,400,00
4)	2013	Potential anti-cancer suspensions of beta-carotene and lutein from cowpeas and amarantus vegetables of Kenya. <b>Position:-</b> Principle investigator	The World Academy of Sciences (TWAS)	Research grant	13,000
5)	2012	Antioxidant oil suspension formulations from indigenous vegetables. <b>Position:-</b> Principle investigator	National Council of science and technology (NCST)	Post-doctoral research	956,992
6)	2012	African Nightshade distribution in Kenyan groecologies	Regional Universities	Research	5,000,000

	in response to phosphorus and water status: Phenoliclklis and related antioxidants profiling. <b>Position:-</b> collaborator <b>Team Members</b> J Dr. Joseph Patrick Onyango Gweyi ( <b>PI</b> ), Kenyatta University J <b>Dr. Mildred P. Nawiri</b> , Kenyatta University J Dr. Winfred M Musila, National Museums of Kenya. J Omolo Paul Ochieng, Kenya Agricultural Research Institute	Forum for Capacity Building in Agriculture (RUFORUM)		
7) 2012	Characterization of antimicrobial compounds of fungi from lake magadi, Kenya. <b>Position:-</b> collaborator <b>Team Members</b> J Ms. SalanoOdiliaAtamba ( <b>PI</b> ), Thika Technical Institute J <b>Dr. Mildred P. Nawiri</b> , Kenyatta University J Dr. Laura Wangai, Jomo Kenyatta University of Agriculture and Technology J Dr. Grace Waceke, Jomo Kenyatta University of Agriculture and Technology	NCST	Research	2,029,160
8) 1998	Beta carotene levels in indigenous vegetables. <b>Principle investigator</b>	Sigma Xi	Research	50,000
9) 1998	Levels of carotenoids in dark green leafy vegetables <b>Principle investigator</b>	IPGRI	Research	60,000
10) 1997	Effect of dehydration of dark green leafy vegetables on Bioavailability and bioconversion of serum beta-carotene	DAAD	PhD research	365,000

among preschool children  
**Principle investigator**  
11) 1996 Heavy metal and Pesticides in Marine sediment, seawater and seaplants along the Kenya-Mombasa Coastline. Kenyatta University Vice-Chancellors grant MSc research 80,000  
**Principle investigator**

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**MEMBERSHIP IN PROFESSIONAL BODIES**

- ) Kenya Association of Research Scientists (KARS)
- ) Kenya Chemical Society (KCS)
- ) Kenyatta University Alumni
- ) African Women in Science and Engineering (AWSE)
- ) Assistant secretary, Kenya DAAD Scholars Association (KDSA)

**REFEREES**

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