

**Name: Hudson Nyabuga Nyambaka, FRSC**

**Position:** Professor in Analytical Chemistry

**Chairman:** Department of Chemistry  
Kenyatta University  
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#### ***Membership in Professional Societies***

Royal Society of Chemistry  
Kenya Chemical Society

#### ***Education***

Doctor of philosophy (PhD), Food Chemistry (1996) – Dept of Food Science, University of Leeds, UK

Master of Art in Leadership (MAL), (2010) - Pan African Christian University (PACU, Kenya

Master of Science (MSc.), Chemistry (1988) - Dept of Chemistry, Kenyatta University, Kenya

Bachelor of Education (B.Ed., Sc.), (1985) – University of Nairobi, Kenya

#### ***Research focus***

**Analytical Chemistry:** chromatographic procedures for micronutrient analysis, spectrometric procedures for trace metal analysis

**Food Chemistry:** analysis of micro- and macro-nutrients; food processing procedures and their effects on nutritional and sensory values; bioavailability and bioconversion of micronutrients; food formulations and their impact on vulnerable groups such as people living with HIV and AIDS, non-communicable diseases (NCDs) and children in harsh conditions; aflatoxin, anti-nutrient and contaminant studies in foods

**Environmental analysis:** impact of heavy metals, organics and pesticide degradation in environment

#### ***Recent Projects and consultancies***

National Research Fund (NRF) 2020 – current: Principal Investigator for a multidisciplinary research project entitled: *Value Addition to Finger millet-based Food Products and their Efficacy in the Management of Hyperglycemia, Hypertension and Promotion of Nutrition Security Among in Type 2 Diabetics in Kenya*

KU VC Grant 2014 of Kshs. 1,499,970 for one year. Title: **Nutrition-Sensitive Intervention with African Leafy Vegetables to Improve Nutrition Status of School Going Children in Kenya**

Lake Victoria Research (VicRes), 2006; research grant of US\$ 150,000 for three years; Title: **“Assessment of Indigenous Nutritional Food Supplement in the Management of HIV and AIDS Patients in the Lake Victoria Basin”**.

#### **Other research grants**

- Awarded US\$ 3,000 by Southern and Eastern Africa Network of Analytical Chemists (SEANAC) to support research of two Masters students in 2006
- Awarded US\$ 2,000 by Southern and Eastern Africa Network of Analytical Chemists (SEANAC) to support research of a Masters student in 2005
- Awarded US\$ 3,000 by Sigma Xi Scientific Research Society research grants of each to support research of three students in 2005

#### **Conference Presentations**

- Nyambaka H. N., Obumba M. O. and Nawiri M. P. Effect of storage on lutein levels in smooth cayenne (*Ananas comosus*) grown in Kenya. Pan Africa Chemistry Network Congress 2017, held on 7-9<sup>th</sup> November 2017 in Accra Ghana
- 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 10<sup>th</sup> Kenya Chemical Society International Conference held on 9th -12th May 2017 at the United States International University (USIU)-Africa. (Awarded Royal Society of Chemists (RSC) poster winners' prize)
- 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, 10<sup>th</sup> Kenya Chemical Society International Conference held on 9th -12th May 2017 at the United States International University (USIU)-Africa. (Awarded RSC poster winners' prize)
- Nyambaka H, Mbakaya CFL, Bwete V, Maseta E, Waudu J and Nambafu R (2016): “Use of Indigenous Food Formulation in the Management of HIV and AIDS Patients in Kenya”, 5<sup>th</sup> European Nutrition and Dietetics Conference held on June 16-18, 2016 in Rome Italy.
- Nawiri, MP, Hena JY Jr, Andala, DM and Nyambaka HN (2016): “Carotenoid levels, Total Phenolic Content and Antioxidant Activity Variations in Varieties of *Citrullus lanatus* Under Storage at Room Temperature”, Humboldt “Kolleg” 2016 Held in Naivasha, Kenya April 6 – 8, 2016.
- 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. NIMR 30th Annual Joint Scientific Conference 4th-6th October, 2016 Julius Nyerere International Convection, Tanzania.
- Nawiri MP, Hena JY Jr, Andala DM and Nyambaka HN (2016): “Storage Effects on Levels of Carotenoids, Total Phenolics and Antioxidant Activity in *Lycopersicon esculentum* And *Citrullus lanatus* Grown in Mwea, Kenya”, 4th African Food and Nutrition Forum in Ethiopia

- Nyambaka Hudson (2015). "Environmental Exposure and Feeding Habits Affects Lead Levels in Human Blood in Kenya" Presented at the 8<sup>th</sup> International Kenya Chemical Society Conference held on May 5-8, 2015 at the University of Nairobi, Kenya
- Nawiri, MP, Nyambaka HN and Aywa K "The nutrient content in colored varieties of *Ipomea batatas* grown in Vihiga, Kenya. 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.
- Nawiri M.P., Nyambaka, H. and Aywa, K. "Nutrient content in colored varieties of ipomeabatatas". Kenya DAAD Scholar's Association Conference held at Egerton University on 15<sup>th</sup>-16<sup>th</sup> November 2012.
- The Fifth Annual Biomedical Convention: Enhancing Biomedical Research Education for National Development, held on 31<sup>st</sup> – 1<sup>st</sup> August 2012 in Noguchi Memorial Institute for Medical Research, University of Ghana-Legon, Accra Ghana. (**Paper presented:** Impact Assessment of Using Nutritional Supplements in the Management of HIV and AIDS in Western Kenya.)
- The 1<sup>st</sup> PACN Congress on Agricultural Productivity: How Chemical Sciences can Help to Feed the World, held on 21-23<sup>rd</sup> November 2011 in Accra International Convention Centre, Ghana (**Poster presented:** The Potential use of Indigenous Vegetables in Enhancing Immunity Boasting Vitamins among People Living With HIV AND AIDS in the Lake Victoria Region: Bioavailability Studies)
- Lake Victoria Research Initiative Biennial Forum held on 9<sup>th</sup> to 13<sup>th</sup> October, 2011, Munyonyo Resort Club, Munyonyo, Uganda Uganda (**Paper presented:** Assessment of Indigenous Nutritional Foods Supplements in the Management of HIV and AIDS Patients in the Lake Victoria Region: Results of Baseline Studies.)
- Lake Victoria Research Initiative Principal Investigators Workshop held on 4<sup>th</sup> to 7<sup>th</sup> September, 2011, Botanical Resort, Entebbe, Uganda (**Paper presented:** The Role of Nutritional Formulations in Enhancing Immunity among People Living With HIV AND AIDS in the Lake Victoria Region: Some Baseline Characteristics.
- The 4<sup>th</sup> Africa Nutritional Epidemiology Conference Held on 4<sup>th</sup>-6<sup>th</sup> October, 2010 at Safari Park Hotel, Kenya (**Paper presented:** The consumption and Nutritive value of indigenous foods in the lake Victoria region)
- Training Seminars held between 15<sup>th</sup> June and 21<sup>st</sup> August 2010 at Novartis Institute of Biomedical Research, Cambridge, USA (**Poster Presentation (19<sup>th</sup> July:-** Nutrition Intervention with Vulnerable Groups and Environmental Pollution Monitoring Studies)
- Visiting Scientist/Harvard University Chemistry Researchers Seminar held on 23<sup>th</sup> July 2010, School of Chemistry and Biological Sciences, Cambridge, USA (**Paper Presented:-** Studies in Environmental Pollution Monitoring and Nutrition Intervention to Vulnerable Groups in Kenya)

#### **Publications in Refereed Journals**

- Anyango, BA, Nawiri, P Nyambaka, H Andala D (2020). Impact of Ph on Cr (VI) Ions Remediation from Contaminated Water Using Endo Saponin-Chitosan-Zeolite-Metal Oxide Nanocomposite. International Journal of Progressive Sciences and Technologies 22 (2), 244-250

- Lubeka, C., Kimiywe, J., & Nyambaka H. (2020). Impact of school garden on dietary diversity and micronutrient level of pre-school children in Makueni County –Kenya. *Research Journal of Food Science and Nutrition* 5 (4), 85-97
- Karanja K Elias, Murungi I Jane, Nyambaka, N Hudson (2020). Dithiocarbamate Fungicides and Ethylenethiourea Residue Levels in Tomato and Sweet Pepper from Markets: Kirinyaga and Nairobi Counties, Kenya. *The International Journal of Science & Technoledge* 8 (9)
- Ondora, OM Gikonyo, NK Nyambaka HN (2020). Macroscopic and microscopic features of diagnostic value for *Warburgia ugandensis* Sprague leaf and stem-bark herbal materials. *Journal of Pharmacognosy and Phytotherapy* 12 (2), 36-43
- Wakhanu, J Nyambaka, H Nawiri, M Kimiywe, J Thagana W (2020) Nutrition-Sensitive Intervention with African Indigenous Leafy Vegetables among School-Going Children in Machakos County, Kenya. *Journal of Medicinally Active Plants* 9 (3), 111-125
- Ngorwe, E.N., Nawiri, M., Murungi, J., Nyambaka, H. and Ongera, T. (2020) Effects of nanofertilizers on Cd and Pb uptake in kales grown in medially polluted experimental soil. *Journal of Applied Chemistry (IOSR-JAQC)* Vol 13(5), 55-68
- Onyambu MO, Gikonyo NK, Nyambaka HN and Thoithi GN (2019) A Review of Trends in Herbal Drugs Standardization, Regulation and Integration to the National Healthcare Systems in Kenya and the Globe. *Int J Pharmacogn Chinese Med* ISSN: 2576-4772 3(3), 1-13.
- John Wakhanu, Hudson Nyambaka, Judith Kimiywe, Mildred Nawiri and Wilson M. Thagana (2019). Consumption of African Indigenous Vegetables Improves Children's body Fat Free Mass in Machakos County, Kenya. *Journal of Food Science and Engineering* 9 (2019) 305-317. doi: 10.17265/2159-5828/2019.08.002
- Echessa AC, Nyambaka Hudson, Changamu Evans (2019). Ameliorating Sisal Leaf Wastes in Purveying Plant Macronutrients. *International Journal of Research and analytical Reviews*, 6 (4), 87-93.
- N George, N Mildred, N Hudson (2019). Health Risk Assessment on Selected Essential and Non-Essential Elements in Food Crops Grown in Kibera Slum, Nairobi-Kenya. *Food and Nutrition Sciences* 10 (6), 635-647
- Anyango Anna Akumu, Hudson Nyambaka, Serge Philibert Kuate, Baldwyn Torto (2018). Characterization of flavonoids from candidate striga grass in controlling diet legumes *Cicer arietinum* and *Vigna radiate*. *Biofarmasi J Nat Prod Biochem*, 16, (2), 83-98. DOI: 10.13057/biofar/f160204.
- Nderitu, S.M., Nawiri, M.P. and Nyambaka, H.N. (2018) Fortification of sunflower and palm oils using beta carotene extracted from *Asystasia mysorensis* and *Solanum nigrum*. *Food Research*, 2 (5), 437 – 442.
- Ombuna Dinah Nyaitondi, Ruth Nduta Wanjau, Hudson Nyambaka, Ahmed Hassanali (2018). Anti-bacterial properties and GC-MS analysis of extracts and essential oils of selected plant product. *Biofarmasi J Nat Prod Biochem*, 16, (1), 44-58, DOI: 10.13057/biofar/f160105.
- JK Basweti, MP Nawiri and HN Nyambaka (2018). Physico-chemical parameters and levels of polycyclic aromatic hydrocarbons in water, sediments and soil in River Nzoia, Kakamega county-Kenya. *Environ. Monit. Assess*, 190:518
- Mungai, Z. M., Nawiri, M. P. and Nyambaka, H. N. (2017). Retention levels of vegetable extractable beta-carotene preserved in virgin coconut oil and unadulterated honey. *Food Research* 1 (5): 170 – 175.
- Obumba M. O., Nawiri M. P and Nyambaka H. N (2017). Effect of storage on lutein levels of smooth cayenne (*Ananas comosus*) grown in different counties of Kenya. *African Journal of Food Science*, 11 (6), 178-182

- Nawiri M.P., Nyambaka H.N. and Mobegi E. ((2017). Levels fo Polycyclic Aromatic Hydrocarbons in Water from Nairobi River, Nairobi County-Kenya. *The International Journal of Science & Technoledge*, 5(5), 14-18.
- Shisia K. Silvanus, Naumih N., Nyambaka H, Andala D.M (2016). Efficiency of Fabricated CNT-IPSF/Fe<sub>3</sub>O<sub>4</sub> Nanocomposites in Removal of Phenanthrenes from Contaminated Water. *International Journal of Scientific & Technology Research*, 5 (9), 83-92
- Mobegi Erick K, Nyambaka Hudson N and Nawiri Mildred P (2016). Physico-chemical Characteristics and Levels of Polycyclic Aromatic Hydrocarbons in Untreated Water from Ngong River, Kenya. *Journal of Pollution Effects & Control* 4(2), 1-4 **doi:10.4172/2375-4397.1000163**
- J. Y. Jr. Hena, D. M. Andala , H. N. Nyambaka<sup>1</sup> and M. P. Nawiri (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)
- Wakhanu A. John, Kimiywe Judith, Nyambaka Hudson (2016) Oxalate Levels in Selected African Indigenous Vegetable Recipes from the Lake Victoria Basin, Kenya. *International Journal of Agriculture and Environmental Research*, 1(2) 88-105
- 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
- Peter Chege, Elizabeth Kuria, Judith Kimiywe, **Hudson Nyambaka** (2014) Changes in nutrition content for  $\beta$ -carotene, iron and zinc in solar Dried and stored *Amaranthus cruentus* vegetables. *International journal of Agriculture Innovations and Research* 3(3), 880-882.
- E.N. Ngorwe, **Hudson Nyambaka** and Jane Murungi, T. Ongera (2014). Effects of Physico-chemical properties on uptake of lead and cadmium in tobacco grown in medially polluted soils. *The International Journal of Science and Technoledge* 2(8) 146-153.
- Peter Chege, Elizabeth Kuria, Judith Kimiywe, **Hudson Nyambaka** (2014) Retention of  $\beta$ -carotene, iron and zinc in solar Dried and stored Amaranth Leaves n Kajiado County, Kenya. *International Journal of Sciences: Basic and Applied Research* 13(2) 329-338.
- EvansN. Ngorwe, **Hudson Nyambaka** and Jane I. Murungi (2014) Use of low cost soil amendments reduces uptake of cadmium and lead by tobacco (*Nictiana tabacum*) grown in medially polluted soils. *Journal of Environment and Human* 1(2) 104-112.
- Mwangi I.W., Muthakia G.K., Onindo C.O., **Nyambaka H.**, Ngila J.C. (2014) Determination of copper levels in Kamiti river along coffee farms in Kiambu, Kenya. *Journal of Agriculture, Science and Technology* 16(2).
- Echessa A.C. Peter, **Nyambaka Hudson**, Ondigi N. Alice, Omuterema Stanley, Toili William, Afihini S.M. Ijani, Sande Anne (2013). Evaluation of micronutrients in seeds of pumpkin varieties grown by smallholder farmers in the Lake Victoria Basin. *African Journal of Food Science and Technology* 4(10) 221-228.
- R. Mogwasi, Benuel Nyagaka, Enock Okiambe, **Hudson Nyambaka**, Jane Murungi, Zachary Getenga, Enock Amboga, Evans Onyancha, Samuel Abuga, Evans Kenanda (2013). Effect of occupation on the levels of lead in human blood in Kenya. *Chemistry and Material Research* 3(4), 1-
- **Nyambaka, H. N.** and Nawiri, M. P (2013). Indigenous vegetables: An excellent source of vitamin A; In: L. De Smet and M. Claes (eds.), *Vitamin A and Vitamin E: Daily Requirements, Dietary Sources and Symptoms of Deficiency*. Nova Science Publishers Inc., New York, pp. 105-122

- K.S. Shisia, V. Ngure, **H. Nyambaka**, and F.D.O. Oduor (2013). Effect of pH and forage species on mineral concentrations in cattle breeds in major grazing areas of Uasin Gishu County, Kenya. *International Journal of Current Microbiology and Applied Sciences*, 2(12), 247-254.
- Echessa A.C. Peter, Nyambaka Hudson, Ondigi N. Alice, Omuterema Stanley, Toili William and Sande Anne (2013). Variation of micronutrients in pumpkin fruit varieties grown within the Lake Victoria Basin. *Food Science and Quality Management*, 17, 71-81
- Lusi P., Nyambaka, H., Mbakaya. C.F., Masete, E., Bwete, V. and Murungi, J. (2013). Bioavailability studies of trace elements in a potential food formulation for use in the management of HIV and AIDS. *International Journal of Pure and Applied Chemistry*, 8(1): 47-53.
- Richard Mogwasi, Benuel Nyagaka, Enock Okiambe, **Hudson Nyambaka**, Jane Murungi, Zachary Getenga, Enock Amboga, Evans Onyancha, Samuel Abuga, Evans Kenanda (2013). Effect of Occupation on the Levels of Lead in Human Blood in Kenya; *Chemistry and Material Research*, 3, (4), 1-6.
- Richard Mogwasi, Zachary Getenga, **Hudson Nyambaka**, Ruth wanjau, Jane Murungi, Enock Okiambe, Evans Onyancha (2013). Comparison of Lead Levels with Calcium, Zinc and Phosphorus Levels in Human Blood; *Global Journal of Pure and Applied Chemistry Research*, 1, (1), 44-59.
- 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).
- 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.
- Richard Mogwasi, **Hudson Nyambaka**, Jane Murungi, Zachary Getenga, Lydia Kimoro, Enock Okiambe, Benuel Nyagaka (2012). Effect of Environmental Exposure on the Lead Levels in Human Blood in Kenya; *Journal of Environment and Earth Science*, 2, (10), 53-63.
- K. S. Shisia<sup>1</sup>, **H. Nyambaka**, I. O. Jumba, F. D. O. Oduor and V. Ngure (2012). Minerals deficiency diagnosis in grazing cattle of Uasin Gishu District, Kenya, *Journal of Environmental Chemistry and Ecotoxicology*, 4(13), 229-233.
- **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.
- Nawiri, M.P., **Nyambaka, H.N.** and Murungi, J.I. (2012). Sundried cowpeas and amaranthus leaves recipe improves beta-carotene and retinol in serum and hemoglobin concentration among preschool children. *European Journal of Nutrition* doi 10.1007/s00394-012-036-2.
- Shisia K. S, Murungi J, Nyambaka H, Jumba I.O, Oduor F. D. O., Ngure, V. (2011). Soil-plant composition in relation to mineral requirements for grazing cattle in Uasin Gishu district, *Journal of Technology & Socio – Economic Development* Volume 1(1), 126-130.
- Mbakaya, C.F.L., **Nyambaka H.**, Waudo J., Ndiege, I.O. (2011). Might the Time be Ripe to Re-define the Cause of AIDS in the Light of Emerging Evidence? **J. Agri. Sci. Technol.** 13 (1), 1-6.
- Paul Mireji, Joseph Keating, Ahmed Hassanali, Daniel Impoinvil, Charles M. Mbogo, Martha Njeri, **Hudson Nyambaka**, Eucheria Kenya, John I. Githure, John C. Beier (2010). Expression of Metallothionein and  $\alpha$ -Tubulin in Heavy Metal-tolerant *Anopheles*

*gambie* sensu stricto (Diptera:Culicidae). **Ecotoxicology and Environmental Safety**, 73(1) 46-50.

- Paul Mireji, Joseph Keating, Ahmed Hassanali, Charles M. Mbogo, **Hudson Nyambaka**, Samwel Kahindi, and John C. Beier (2008). Heavy metals in Mosquito Larval Habitats in Urban Kisumu and Malindi, Kenya, and their Impact. **J. Ecological and Environmental Safety**, 70, 147-153.
- Paul Odhiambo Mireji, Joseph Keating, Eucheria Kenya, Charles M. Mbogo, **Hudson Nyambaka**, Ellie Osir, John Githure and John C. Beier. (2006). Differential Induction of Proteins in *Anopheles gambie* sensu stricto (Diptera:culicidae) larvae in Response to Heavy Metal Selection. **Intern. J. Trop. Insect. Sci.** 26 (4), pp 214-226.
- Mbakaya, C.F.L., Oreng P.A., Jumba I., Bulimo W., Kisingu W., **Nyambaka H.**, Waudo J., Ndemwa P., and Omondi J. (2004). Micronutrient Zinc Deficiency as a Possible Co-factor in the Transmission and Progression of HIV/AIDS in Kenya. **Afric. J. Fd. Agric. Develop.** 4 (2), 1-13
- Nyambaka, H.N., and Ryley, J. (2004). Multivariate Analysis of the Sensory Changes in the Dehydrated Cowpea Leaves. *Talanta*, 64, 23-29
- Nyambaka, H.N., and Ryley, J. (2001). Degradative Pro-vitamin A Active Compounds of all-trans- $\beta$ -Carotene in Dehydrated Dark Leafy Vegetables. *Bull. Chem. Soc. Ethiopia*. 15 (1), 57-64.
- Nyambaka, H.N., and Ryley, J. (2000). An Isocratic Reversed-Phase HPLC Separation of  $\beta$ -Carotene Epoxides in Dehydrated Dark Green Leafy Vegetables. *Intern. J. Biochemphysics* 10, 42-46.
- Nyambaka, H.N., and Ryley, J. (1996). An Isocratic Reversed-Phase HPLC Separation of the Stereoisomers of the Provitamin A Carotenoids ( $\beta$ - and  $\alpha$ -Carotene) in the Dark Green Vegetables. *Food Chem.* 55 (1), 63-73.
- Nyambaka H.N., Nyagah G. (1991). Determination of  $\beta$ -Carotene and  $\alpha$ -Tocopherol in Vegetable Foods by High-Performance Liquid Chromatography. *Intern. J. Biochemphysics* 1 (2), 38-41.

### **Graduated and Current Supervision of postgraduate students**

#### **Graduated (PhD)**

Peter A.C. Echessa	Formulation and Evaluation of NPK Supplementary Fertiliser from Sital ( <i>Agave sisalana</i> ) and Livestock Waste materials (2020)
Wakhanu John Akello	Nutrition-Sensitive Intervention with African Leafy Vegetables to Improve Nutrition Status of School-Going Children in Kenya (2020)
Silvanus K. Shisia	Fabrication and Characterization of Magnetoresponse Carbon Nanotube-infused Polysulfone (CNT-IPSF) Nanocomposites for Water Purification (2017)
Meshack O. Onyambu	Chromatographic Fingerprinting and Quality Evaluation for <i>Warbugia Ugandensis</i> Herbal Materials (2016)
Judith Munga	Efficacy of Chromium supplementation in the Management of Type 2 Diabetes Among patients Attending Diabetes care Clinic, Nairobi Kenya (2015)
Chege Peter Maina	Efficacy of Dried Amaranth Leaves on Vitamin A and Iron Status of Children Under Five Years in Kajiado District, Kenya (2012)

C.F.L. Mbakaya	The Effect of Mega Dose Micronutrient Supplementation on Nutritional and Immunological Status of Subjects Diagnosed with HIV in VCT Centers in western Kenya (2011)
W.M. Nyamota	Nutrient Composition of <i>Hypochondriacus</i> Amaranth Grain and Effects of its Consumption Status of Children Infected with HIV/AIDS Attending the Comprehensive Clinic at Thika District Hospital (2011)
R. Bichanga	Characterization of Kenyan Honey and Design the Model for the Processing (2010)
M. Nawiri	Effect of Dehydrated Dark Green Leafy Vegetables on the Bioavailability and Bioconversion of Beta-Carotene in Preschool Children (2008)
P.O. Mireji	Response of Mosquitoes to Urban Environmental Contaminants (2007)
<b>Graduated (MSC)</b>	
Elias K. Karanja	Investigation of Dithiocarbamate Gungicides and Ethylenethiourea metabolite Residues in Some vegetables from Kirinyaga and Nairobi Counties (2020)
Richard W. Mutembete	Assessment of Some Essential Micronutrients in Selected Indigenous Fruits in Kakamega County, Kenya (2020)
Nderitu Samuel Muturi	Stability of Extractable Beta-Carotene from Underutilized Indigenous Vegetables Stored in Edible Oils (2019)
George Ohingo Nyabuti	Health Risk Assessment of Selected Essential and Non-essential Elements in Food Crops Grown in Kibra Slum, Nairobi-Kenya (2019)
Basweti Judy Kwamboka	Levels of Polycyclic Aromatic Hydrocarbons in Water, Soil and Sediments from River Nzoia, Kakamega County-Kenya (2018)
William. K. Munyoki	Assessment of Diacetylmorphine and Selected Adulterants and Impurities of Heroin in Nairobi, Kenya (2017)
Zipporah M. Mungai	Retention of Extractable Beta-carotene from <i>Amarathus</i> spp Preserved in Coconut Oil and Honey (2017)
Zipporah M. Mungai	Retention of Extractable Beta-carotene from <i>Amarathus</i> spp Preserved in Coconut Oil and Honey (2016)
Tabitha.W. Kamau	Quantification of Selected Essential and Toxic Minerals in Geophatic Materials in Kiambu County, Kenya (2016)
Evans C. Choi	Levels of Selected Macronutrient in Varieties of Pumpkin <i>Curcubita</i> spp) Grown in Four Selected Districts Lake Victoria Basin (2015)
Maxwell O. Obumba	Variation of Carotenoids, Total Phenolic and Antioxidant Activity in <i>Ananas comosus</i> from Different Counties in Kenya with Duration of Storage (2015)
John Y. Hena	Effect of Temperature Storage on the Levels of Carotenoids, Total Phenolic Content and Antioxidant Activity <i>Lycopersicon esculenium</i> and <i>Citrullus lanatus</i> (2015)
Beatrice Anyango	Levels of Beta-carotene and Microbial Load in Solar Dried Dark Green Leafy Vegetables of Different Moisture Content with Storage (2015)
Grace K. Abere	Assessment of Levels of Active Skin Lightening Compounds in Some Facial Creams and Soaps in Kenya (2015)



Erick K. Mobegi	Levels of Physico-chemical Parameters and Polycyclic Aromatic Hydrocarbons in water from Ngong and Nairobi Rivers, Nairobi County Kenya (2015)
Sabina W. Ngigi	Evaluation of Selected Nutrients in Mulberry ( <i>Morus alba</i> L) Varieties Grown at KARI Station Thika, Kiambu County (2014)
D.N. Ombuna (MSc)	Anti-bacterial Activity and their GC-MS Identification in Vegetables and Lemon (2013)
E.N. Ngorwe (MSc)	Investigation of the Effect of Soil Amendments Submitted thesis On Cadmium and Lead in Tobacco Leaves in Isebania, Migori County Kenya (2013)
E.M. Silano (M.Sc.)	Assessment of Heavy Metal Pollution In Soils and Water from Samburu County, Kenya (2013)
K.A. Aywa (M.Sc.)	Assessment of Extent of Consumption of And Levels of Selected Nutrients in <i>Ipomea Batatas</i> Grown in Vihiga County, Kenya (2012)
B. N. Muthui (M.Sc.)	Analysis of Sugar Levels in Honey by High Performance Chromatography as an Indicator of Adulteration (2012)
E.S. Amoke (M.Sc.)	Factors Affecting Performance in Food And Beverage Craft Certificate Examinations: A Survey of Technical Training Institutions In Nyanza Province, Kenya (2012)
P.G. Kimani (M.Sc.)	Screening and Partial Characterization of $\delta$ -Endotoxins from Some Local <i>Bacillus Thuringiensis</i> Isolates for Insecticidal Activity Against the Spotted Stem Borer (2012)
P.A.C. Echessa (MSc)	Evaluation of Some Micronutrients in Pumpkin Varieties Grown in the Lake Victoria Basin (2011)
P.O. Lusi (MSc)	The Bioavailability of Essential Elements in Food Formulations in People Living with HIV and AIDS (2011)
R. W. Nambafu (M.Sc.)	Assessment of Bioavailability of Vitamins A, C & E in A Selected Indigenous Foods and their use in Management of HIV and AIDS (2011)
B. K. Cheruyot (M.Sc.)	Determination of Levels of Beta-carotene Thiamin, Riboflavin, Ascorbic acid, and Alpha-tocopherol in Grain Amaranth from Selected Regions, Kenya (2011)
D.Z. Kadima (MSc)	Determination of Essential Trace Elements in Selected Medicinal Plants and their Concoctions (2010)
M. Muruiki (MSc)	Determination and Effect of Immune Boosting Trace Elements in Indigenous Foods and their Products Used By People Living with HIV and AIDS (2009)
R. Mogwasi (MSc)	Effects of Environmental Exposure to Lead and Diets on the Levels of Lead in Human Blood (2009)
S. Mugambi (MSc)	Effect of Using Copper Fungicides on Tomato Farming in Subukia, Kenya (2009)
S. Njoroge (MSc)	Effect of Storage Conditions on Levels Of Pesticides Residues in Post-Harvest Maize and their Health Risks (2009)
N. Wachira (MSc)	Determination and Effect of Immune Boosting Vitamins in Indigenous Foods and their Products Used by People Living with HIV and AIDS (2008)
J.W. Ndiritu (MSc)	The Stability of Beta-Carotene in Dehydrated Dark Green Leafy Vegetables Stored in the Presence of an Oxygen (2007)
S.K. Shisia (MSc)	Soil-Plant Mineral Composition in Relation to the Requirements for Grazing Cattle in Uasin Gishu District (2007)

- P.N. Mwangi (MSc) Determination of Heavy Metals in Black Tea, Tea Infusions and the Effects of Citric Acid (2007)
- I.W. Mwangi (MSc) Environmental Impact Assessment on the Use of Copper Based Fungicide in Coffee Farms Along Kamiti River (2007)
- J. Munga (MSc) An Investigation on Glycemic Index of Local Foods and Use in Management of Diabetes Mellitus: A Study in Kisii and Homa-Bay District Hospitals (2007)
- W. Manuche (MSc) Analysis of Vitamin A Content in the Traditionally Preserved Indigenous Vegetables: A Case Study of Koru Location Nyando District (2003)

### **Current Supervision**

- Joseph B. Skudi (PhD) Near Infrared Chemometric Models for Rapid Screening of Aflatoxins in Maize Flour
- R.W. Nambafu (PhD) Effects of zinc Supplements on Serum Protein and Lipids in PLWHA in Busia County, Western Kenya (In progress)
- Lubeka C. Bunyanzi (PhD) Efficacy of School Garden in Improving Dietary Diversity and Nutritional Status of Children Aged 36-48 Months, Makueni County, Kenya”
- Ngorwe Evans (PhD) Effect of Nano-fertilizers Absorption on Cadmium and Lead, Growth Performance and Nutrient Uptake of Selected Crops”
- Wakhanu J. Akello (PhD) Nutrition; Sensitive Intervention with African Leafy Vegetables to Improve Nutrition Status of School-Going Children in Kenya”
- Anyango Beatrice (PhD) Efficiency of Endod Saponins-Zeolite Composite in Water Purification: A case of Ground Water Sources in Kisumu County, Kenya”
- Zipporah M. Onyambu (PhD) Simulated Bioavailability studies of Vitamin A and the B series in selected African Indigenous Vegetables in Kenya”
- Peter Ouma Lusi (PhD) Quantification of Alkaloids in Raw and Processed *Crotalaria* and *Solanum* Vegetables Growing in Different Agro-Ecological Areas in Lake Victoria Basin”
- W.K. Kosgei (MSc) Characterization of Honey from *Apis mellifera* in Nandi North County, Kenya (Writing thesis)
- Okindo Philemon (MSc) Effect of Different Processing and Preservation Methods on Carotenoid Retention of Selected Vegetables in Kenya”
- M. N. Nyambura (MSc) Assessment of Quality of Petroleum Fuel Solid in Mombasa and Development of a Method for Quality Check of Gasoline
- Muriuki J Nyathuta (MSc) Effect of Solar Drying on Vitamins in Selected Indigenous Fruits and Vegetables Stored with Cocobut Oil Coating in Kilifi County, Kenya