

CURRICULUM VITAE



Dr. George T. Opande. PhD

PERSONAL INFORMATION

NAME: GEORGE TIMOTHY OGUENO OPANDE
SEX : MALE
NATIONALITY : KENYAN
MARITAL STATUS : MARRIED
POSTAL ADDRESS : KAIMOSI FRIENDS UNIVERSITY,
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ACADEMIC QUALIFICATIONS

- (i) 1975 Kenya Certificate of Primary Education. (C.P.E)
- (ii) 1979 East African Certificate of Education. (E.A.C.E)
- (iii) 1981 Kenya Advanced Certificate of Education. (K.A.C.E.)
- (iv) 1985 B.sc (gen). Second class hon. Jabalpur University, Jabalpur, India.
- (v) 1988 M.Sc. (Botany) Bhopal University, Bhopal, India.
- (vi) 2002 PhD (Botany- Pathogens, physical characteristics and control of *Eichornia crassipes*.)
Maseno University, Maseno, Kenya.

WORKING EXPERIENCE

- (i) 1992 -1994; *Tutorial Fellow* Department of Botany, Maseno University.
Duties and Responsibilities; Lecturer and research scientist.
- (ii) 1994 -2019; *Lecturer* Department of Botany, Maseno University.
Duties and Responsibilities; Lecturer and research scientist

- (iii) 2019 -To date; *Senior Lecturer*, Dept of biological and agricultural Sciences, Kaimosi Friends University, Kaimosi. Kenya.

Duties and Responsibilities; Senior Lecturer and Senior research scientist.

COURSES TAUGHT AT UNIVERSITY LEVEL AND SPECIALIZATIONS

Current areas of University teaching Post-graduate and under-graduate.

- Environmental science,
- Gymnosperm and Angiosperm taxonomy.
- Plant ecology
- Plant taxonomy.
- Plant pathology,
- Plant Physiology
- Plant biochemistry,
- Mycology,
- Virology,
- Phycology,
- Bacteriology,
- Nematology,
- Entomology,
- Biological control of plant diseases,
- Bryology,
- Pteridology,
- Control of aquatic and invasive plants.
- Weed science
- Microbiology
- Limnology.
- Herbarium principles and practice
- Agricultural research methods
- Research projects management
- Bioinformatics
- Molecular biology

RELEVANT RESEARCH UNDERTAKEN

1. Acquisition of resistant *Colocasia esculenta* germplasm that are suitable for Republic of Maldives growing conditions (On going)
2. Field research and assessments to identify the suitability of *Colocasia esculenta* germplasm of select varieties. (On going)
3. Finalization of a cultivation plan for selected germplasm for cultivation in the Republic of Maldives (On going)

4. Provision of trainings and information to selected island communities and extension personnel from the Ministry of Fisheries and Agriculture, Republic of Maldives (On going to 2026)
5. Production and optimization of bioethanol gel fuel, briquette fuel and biofertilizer from selected agricultural wastes and water hyacinth (*Eichhornia crassipes*) around Bahir Dar, Northern Ethiopia by Desta Mulu, Prof. Fantaw Yimer (Hawassa University), Tsegaye Bekele (Hawassa University) and **Dr. George T. Opande** (Kaimosi Friends University)
6. “Mitigation of Climate Change through Sustainable Integration of Maize Based Agro-Forestry Systems for Food Security and Poverty Reduction in Western Kenya” (2018-2021) research ongoing by **Dr. George T. Opande**, Prof David Mutisya Musyimi, Dr Phoebe A. Shikuku, and Prof. George Odhiambo).
7. “Determination of seasonal variations of pest and diseases incidence in maize / banana based agro forestry system in Vihiga and Kisii counties Kenya”. (2018-2021) research ongoing by **Dr. George T. Opande**, Prof David Mutisya Musyimi, Dr Phoebe A. Shikuku, and Prof. George Odhiambo).
8. “Studies on the control of *Eichhornia crassipes* and its associated limnology in Lake Victoria”. (1995-1996) (Supported by UNESCO). Unpublished report (1996) by **GT Opande** and K. William.
9. “A study of disease causative Organism on cacti *Opuntia* sp. In; Nyando plains of Nyanza province (Kenya)”; Unpublished report by **GO Opande** and M. Kariaga (1999)
10. “L. Victoria, the water hyacinth (*E. crassipes*, its distribution, socioeconomic effects, control measures and resurgence in the Winam gulf (L. Victoria.) 2002-2003. **GO Opande** Report published
11. “Distribution and disease incidences of cacti *Opuntia* disease in the Kolwa division, Kisumu, Kenya”. Unpublished report by **GO Opande** and M. Kariaga. (1999)
12. “Distribution of the water hyacinth (*Eichhornia crassipes* [Mart.] Solms), its carpet characteristics, some of its diseases and pests in the Winam gulf (L. Victoria). 1997-2002. (Supported by the Government of Federal Republic of Germany, through DAAD). Report published
13. “Medicinal plants from Laminaceae in Uriri division Migori County (Kenya)”. **GO Opande** Report published
14. “Climatic and regional effect on disease and pathogenicity of taro leaf blight pathogen *Phytophthora colocassiae* L. (Scot) in western and central Kenya”. **GO Opande** Unpublished report

15. "Studies on control of lethal maize necrosis, occurrence, incidences and severity through the use of immune boosters in Muhoroni, (Kenya)". **GO Opande** Unpublished report.
16. "Rhizospheric microorganisms isolates of sugar cane *Saccharum officinarum* and their antagonistic activity against *Ustilago scitaminea* in Kibos (Kenya)". **GO Opande** Published report
17. "Effect of mycoherbicide efficacy in the control of water hyacinth (*Eichhornia crassipes* [Mart] Solms." **GO Opande** Report published
18. "Isolation and characterization of actinomycetes from Maseno soils and their antagonistic effects on *Pyricularia grisea* infecting finger millet (*Eueusine coracana*)". **GO Opande** Report published
19. "Effect of water deficit on the growth and development of *Amaranthus palmeri* (C₃) and *Amaranthus hybridus* (C₄) plants". **GO Opande** Report unpublished

INTERNATIONAL SCIENTIFIC INSTITUTIONS AND LABORATORIES VISITED

1. Prof William T. Haller,

University of Florida,
Institute of Food and Agricultural sciences (I.F.A.S),
Center for Aquatic and Invasive Plants,
Gainesville, Florida.

- Maintenance control of water hyacinth
- Calibration of spray equipments;
- Mechanical harvesting and chopping of water hyacinth.
- Pesticide safety,
- Application of pesticides,
- Applicator training,
- Herbicide labels and use,
- Invasive plant identification

2. Prof. R. Charudattan,

University of Florida,
Institute of Food and Agricultural sciences (I.F.A.S.),
Department of plant pathology,
Gainesville, Florida.

- Isolation, purification and storage of bacterial pathogens.
- Testing techniques and developments of integrated control of the water hyacinth using two fungal pathogens and water hyacinth weevils (*Neochetina* spp.)
- Methods and techniques developed by Prof. S. Chandramohan in the combinations of fungi to improve efficacy of biocontrol systems.
- Aquatic plants information retrieval systems APIRS
- Large scale field trials with bio-herbicides

3. Universitat Konstanz,

Faculty of Biology,

Limnology institute (Walter-Schilenz institute)

Konstanz, Germany.

- Limnology of major water bodies in East and Central Europe.

4. Prof. K. Mendgen,

Universitat Konstanz,

Faculty of Biology,

Plant Pathology laboratory.

Konstanz, Germany.

- Plant pathogenic fungi
- Plant pathogenic bacteria

POST-GRADUATE STUDENTS SUPERVISED.

A COMPLETED POST GRADUATE PROJECTS (GRADUATED)

1. **Vibiah Muvili Munanie** “Determination of antimicrobial Activity of Ethanolic Extract of *Colocasia esculenta* (L) Schott against Selected Diderm Bacteria” Research completed 2024 at Kaimosi Friends University, Kenya (Student graduated on 29th November 2024).
2. **Ilote Bruno Isiaho** “Utility of Hospital data to characterize diarrhoeal bacteria and their susceptibility to guava leaf extracts in Vihiga County, Kenya” Research completed 2023 at Kaimosi Friends University, Kenya (Student graduated on 29th November 2024).
3. **Mutebi Chrispus Makhete** (M.sc); “Effect of mycoherbicide efficacy in the control of water hyacinth (*Eichhornia crassipes* [Mart.] Solms” (Student graduated on 30th April 2021)
4. **William Omuketi Emitaro** (PhD): “Diversity, Phylogeny and antagonistic potential of endophytic microorganisms of selected agroforestry trees in a maize banana intercrop against *Cercospora zae-maydis* *Phaeosphaeria maydis* and *Xanthomonas campestris* pv. *Musacearum* in Maseno, Kenya” (Student graduated on 30th April 2021).
5. **Philip O. Onyango.** (Ph.D); “Melisopalynological, physico-chemical and organoleptic characterization of aboriginal Ogiek honey in Mau forest complex blocks: A perspective in incentivisation of biodiversity conservation”. (Student graduated in December 2019)

6. **Otieno Caren Adhiambo** (Ph.D); “Determination of climatic and regional effect on disease and pathogenicity of taro leaf blight pathogen *Phytophthora colocassiae* L. (Scot) in western and central Kenya”. (Student graduated in December 2019)
7. **Mary Adhiambo Shiranda** (M.sc); “Morphological identification of *Phytophthora cinnamomi* and screening of avocado rootstocks for tolerance to *Phytophthora cinnamoni* and water logging on Lake Victoria” (Student graduated in Maseno University in December 2018)
8. **Sofi Arum** (Msc); “Antimicrobial effects of *Carica papaya* seed, leaf and bark extracts on *Escherichia coli*, *Staphylococcus aureus* and *Candida albicans*”. (Student graduated in December 2017)
9. **Christine Wesonga**; (M.sc); “Survey of maize ear rot causing pathogens and response of hybrids to *Stenocarpella* spp. in Nyanza, Kenya” (Project completed student graduated December in 2016).
10. **Antony Elvis Juma** (M.sc): “Rhizospheric microorganisms isolates of sugar cane *Saccharum officinarum* and their antagonistic activity against *Ustilago scitaminea* in Kibos (Kenya)”. (Student graduated in December 2016)
11. **Were John Jose Okumu** (M.sc); “Isolation and characterization of actinomycetes from Maseno soils and their antagonistic effects on *Pyricularia grisea* infecting finger millet (*Eueusine coracana*)” (Student graduated in December 2016).
12. **Okach Daniel Osieko** (M.sc). “Phytochemical investigations and mineral analysis of some wild plants their role in traditional medicine Uriri Division (Kenya)”. (Student graduated in December 2013).

B. CONTINUING POST GRADUATE PROJECTS

1. **Desta Mulu** (PhD) “Production and optimization of bioethanol gel fuel, briquette fuel and biofertilizer from selected agricultural wastes and water hyacinth (*Eichhornia crassipes*) around Bahir Dar, Northern Ethiopia” (Ongoing research registered at Hawassa University, Ethiopia to completed in 2024 student to graduate in 2025).
2. **Mokoro Benard Karan** “Ethnobotanical survey, mineral analysis and conservation status of some edible wild fruits in Kisii County, Kenya” (On going project to be completed in 2025)

INTERNATIONAL POST- GRADUATE RESEARCHERS HOSTED.

1. **Desta Mulu** (2020-2025) “Production and optimization of bioethanol gel fuel, briquette fuel and biofertilizer from selected agricultural wastes and water hyacinth (*Eichhornia crassipes*) around Bahir Dar, Northern Ethiopia” (Sandwich PhD research hosted at Kaimosi Friends University College and registered at Hawassa University (Ethiopia) sponsored by OWSD PhD fellowship 2020 .
2. **Desta Mulu** (2019-2020) “Production and optimization of bioethanol gel fuel, briquette fuel and biofertilizer from selected agricultural wastes and water hyacinth (*Eichhornia crassipes*) around Bahir Dar, Northern Ethiopia” Research visit conducted at Kaimosi Friends University College sponsored by ICIPE BIO-INNOVATE Africa.

POST-GRADUATE THESIS EXAMINED

1. **Simon Meso Obila** (Msc 2020) “Characterization of *Phaeoisariopsis griseola*, phytochemical screening and fungicidal activity of selected plants extracts against *Phaeoisariopsis griseola* of common bean Var. GLP1127 Mwezi moja” (Maseno University)
2. **Malick Annina Ndzovu** (MSc 2019) “Phytochemical composition, larvicidal activity of *Cocos nucifera* extracts on *Busseola fasca* Fuller and its effects on growth and yield of maize” (Maseno University)
3. **Korir Vicky Jepchirchir** (Msc 2019) “Phytochemical analysis of pyrethrum extracts and anti-aphid effects on growth, yields, chlorophyll and phytonutrient contents of African nightshades” (Maseno University)
4. **John Keya Wekulo** (MSc 2019) “Seasonal variations of microbiological and physicochemical characters of river Kuywa water in Bungoma County, Kenya” (Maseno University)
5. **Collins Wafula Masinde** (MSc 2018) “Taxonomic revision of *Lippia japonica* (BURM F.) Springs. Complex (Verbenaceae) East Africa Using morphological and molecular characters and evolution of its pesticidal efficacy on aphids” (Maseno University)
6. **Dennis Ondieki Omayio** (PhD 2018) “Molecular characterization of *Ustilago kamerunensis* P.&H. SYD of Napier grass and evaluation of its interactions with *Candidus phytoplasma oryzae* strain Mbita-1 under nutrients and moisture stress” (Maseno University)
7. **Dennis Simiyu Wamalwa** (Msc 2017) “Effect of NPK blended fertilizer application on soil physico-chemical properties, growth, physiology and yield of finger millet (*Eleusine coracana* L Gaertn” (Maseno University)

8. **Omuketi William Emitaro** (Msc 2017) “Characterization of *Xanthomonas campestris* pv. *Vesicatoria* in African night shade (*Solanum scabrum* Mill.) and its control using plant extracts of *Bidens pilosa* L. and *Euphorbia hirta* L.” (Maseno University)

9. **Buyela Daniel Khasabuli** (Msc 2017) “Profiling and pathogenicity of *Rolstonia solanacearum* of tomato and its control using *Senna didymobotrya* and *Moringa oleifera* plant extracts.” (Maseno University)

10. **Ombima Joseph** (Msc. 2016); “Assesment of water deficit effects on Agromorphology and physiology of Bambara groundnuts (*Vigna subterranean* (L.) Verdc) I. land races grown in Kenya”. (Maseno University)

11. **Oula Dora Auma** (Msc 2015); “The effects of local isolates of *Fusarium oxysporium* f. sp *strigae* as a antimicrobial agent for striga (*Striga hermonthica* (Del) Benth) weed control on maize in Siaya county, Kenya” (Maseno University)

12. **Joseph Ondier Otieno** (Msc 2014); “Effects of management and rainfall manipulation on soil, respiration in a moist Kenyan savanana, Ruma Lambwe Valley”. (Maseno University)

13. **Aswani Ayitso Susan** (Msc 2014); “Isolation and characterization of antibiotic producing microorganisms from the gut of macrotermes species in Maseno University, Maseno Kenya” (Maseno University)

14. **Omondi Philip Onyango** (Msc 2013; “ Palynological characterization of some *Indigofera* Linn (*Fabaceae-papilionoideae*) in Western Kenya” (Maseno University)

15. **Seline Omondi** (Msc 2013); “Annotated checklist of the vascular plants conservation, phytochemical analysis, educational and economic values of the University botanical garden, Maseno Kenya” (Maseno University)

16. **Carren Atieno Odhiambo** (Msc 2012); “Nutritional effects of fresh and composted agricultural wastes on native wood ear mushroom (*Auricularia auricular* L.)” (Maseno University)

17. **Benson Odhiambo Onyango** (Msc 2010); “Evaluation of phonetic characters and growth performance of native wood ear mushrooms (*Auricularia* spp.) on partially composted agricultural wastes in western Kenya” (Maseno University)

18. **Ruth Kerubo Kebati** (Msc thesis in Plant pathology), “Effect of canopy management and shading on severity of coffee berry disease in Kiambu County, Kenya”. (Degree awarded in 2015 by Kisii University, Kisii Kenya).
19. **Nyang’au Evans Kebaso** (Msc thesis in Plant pathology), “Identification of Bean rust (*Uromyces appendiculatus*) races and evaluation of selected bean cultivars for tolerance to bean rust in Nyamira and Narok South, Kenya”. (Degree awarded in 2015 by Kisii University, Kisii Kenya).
20. **Stella Kemunto Atuti** (Msc thesis in Plant pathology); “Effect of staggered dates and determination of tolerant maize varieties, in management of maize lethal necrosis disease in Kisii County, Kenya”. (Degree awarded in 2016 by Kisii University, Kisii Kenya in 2016).
21. **Jackson Ombuna Gitange** (Msc thesis in Plant Pathology); “Effects of hot water seed treatment, mulching and pruning of black rot disease in cabbage” (Degree awarded in 2019 by Kisii University, Kisii Kenya)

MEMBERSHIP OF ORGANIZATIONS AND ASSOCIATIONS,

- Member *American Phytopathological Society (APS)*.
- Member *International society of Horticultural Sciences (ISHS)*.
- Member *Horticultural Association of Kenya (HAK)*.

WORKSHOPS AND CONFERENCES ATTENDED.

1. *10th KEMRI Annual scientific & health conference (KASH)* held at the Safari Park Hotel Nairobi, Kenya 11th -13th February 2020
2. *1st Health, Environment & Climate change international conference* at the Safari Park Hotel 2nd – 3rd December 2019
3. *“NRF research project partners conference for analysis of status of project and way forward”* at the Heritage resort, Naivasha Kenya 15th - 17th August 2019
4. *“To develop a pre-proposal on ecosystem services, conservation and land use changes in Mount Elgon national park”* CREATE-PPW1/3-2016 workshop at Kibos rice mills, LBDA facility, Kisumu 16th -17th March 2016.
5. *“Climate change, ecological interactions, land use management and social impacts”* University botanical garden, Maseno University (February 19 2014)

6. “1st international symposium on ornamentals in Africa”, theme; Ornamentals for people, planet and profit, Morendat, Naivasha Kenya. (September 9-14, 2013)
7. *Sub-regional symposium on conservation of the bio-diversity of Lake Victoria and Other East African Lakes; Application of Biotechnology and Aqua culture* (17-22 January 1993).
8. *UNESCO/DAAD-ALUMNI conference “water in Africa”* theme; Sustainable water management in African countries. In; *Maseno University, Kisumu Kenya. 1st – 3rd October 2012.*
9. *Lakeshore2003 conference*; theme; “Ecology. Quality assessment sustainable development”, venue; Konstanz University Limnology institute, Konstanz, Germany 17-21 June 2003
10. *Science teachers’ workshop*; Theme “The analysis of teaching and evaluation of science subjects (with special attention to topics and KCSE questions which pose difficulties to candidates) in Nyanza province (Kenya)”; Tom Mboya Labor College, 15 – 17 September 2003.
11. *8th Living Lakes Conference Climate Change and governance* “Managing impacts on lakes”, University of East Anglia, Norwich England, UK 7 -12 September 2003
12. Lake Victoria Environment Management Program (LVEMP); “*1st National Scientific Conference*” Imperial hotel, Kisumu (Kenya); 15 -19 October 2001

PUBLICATIONS

(a) PhD thesis;

Opande George Timothy; (2002), “Distribution of the water hyacinth *Eichhornia crassipes* [Mart] Solms, its carpet characteristics, some of its diseases and pests in the Winam gulf (L. Victoria).” (*A thesis submitted for award of degree of PhD to Maseno University, Maseno, Kenya.*)

(b) Selected publications in international peer reviewed scientific journals;

1. **Opande GT.,** Onyango JC. and Wagai SO., (2004); “The water hyacinth (*Eichhornia crassipes* [Mart.] Solms.), its socio-economic effects, control measures and resurgence in the Winam gulf”; In *Limnologica* 34 pp 105-109 (2004).
[https://doi.org/10.1016/S0075-9511\(04\)80028-8](https://doi.org/10.1016/S0075-9511(04)80028-8)
2. **Opande GT.,** Were OJ. and Arama P. (2013); “Use of soil streptomycetes from Maseno (Kenya) to inhibit growth of *Pyricularia grisea* invitro cultures”, In; *Journal of Agriculture and Veterinary science*; 6 (1) pp 1-3 (2013). E-ISSN: 2319-2380, P-ISSN: 2319-2372

3. Okach DO., **Opande GT.** and Nyunja AR., (2013), “Phytochemical screening of medicinal *Lamiaceae* and their role in traditional medicine in Uriri District (Kenya)”. In; *International journal of herbal medicine* 1 (6) pp 135-143 (2013) [ISSN 2321-2187](#)
4. **Opande GT.**, Mutebi C. and Arama PF., (2013), “Innundative *biocontrol* of water hyacinth (*Eichhornia crassipes* (Mart.) Solm. Laubach) using zonate leaf spot (*Acremonium zonatum* Sawada Gams) fungal agent”. In; *Journal of Agriculture and Veterinary sciences*; 6 (3) pp 69-71 (2013) [E-ISSN: 2319-2380](#) [P-ISSN: 2319-2372](#) [DOI 10.9790/2380-0636971](#)
5. Mutebi CM, Arama PF., **Opande GT.** and Buyela D. (2014); “Reviewing the sustainable management of water hyacinth in Lake Victoria, Kenya” *Maseno University Journal*; 1 pp 238-244(2015)
6. Nyang’anga HT, Okelo WO, Mugivane FI, Mande JD and **Opande GT.** (2015); “Extension officers requirements in an artificial intelligent system for diagnosis of maize disease, Kenya” In; *Journal of Agriculture and Veterinary sciences*; 8 (10) Ver. II (Oct 2015) pp 13-19 [E-ISSN: 2319-2380](#) [P-ISSN: 2319-2372](#)
7. Nyang’anga HT, Okelo WO, Mugivane FL., Mande JD. and **Opande GT** (2015); “Farmers requirements in an artificial intelligent system for diagnosis of maize diseases, Kenya” In; *Journal of Agriculture and Veterinary sciences*; 8 (10) Ver. II (Oct 2015) pp 20-31 [E-ISSN: 2319-2380](#) [P-ISSN: 2319-2372](#)
8. **Opande GT.**, Musyimi DM, Cherono KL, Jiveri BK. and Buyela DK. (2017): “Antimicrobial activities of crude leaf extract of *Solanum nigrum* on *Fusarium oxysporum* and *Pseudomonas syringae* cultures in Maseno (Kenya). In; *Journal of Asian scientific research* 7(7) pp 271-278 [ISSN: 2223-1331\(p\)](#) [ISSN: 2226-5724](#)
9. **Opande GT.**, Musyimi DM and Kaberia MJ. (2017): “Antimicrobial effects of leaf and root extracts of *Crotalaria brevidens* on *Candida albicans*, *Staphylococcus aureus* and *Escherichia coli*” In; *International Journal of pharmaceutical science Invention* 6 (6) (June 2017) pp 33-40 e- [ISSN 2319-6718](#) [P-ISSN 2319-670X](#)
10. Musyimi DM., **Opande GT.**, Chesire J. and Buyela DK; (2017): “Phytochemical and antimicrobial activities of plant extract from *Lantana camara* Linn on selected soil microorganisms” In: *IJRDO Journal of biological sciences* 3 (6) pp 18- 35 [ISSN: 2455-7676](#)
11. **Opande GT.**, Wagai SO., Onyango JC. and Musyimi DM, (2017) “Carpet characteristics of *Eichhornia crassipes* [Mart.] Solms (Water hyacinth) in the Winam gulf (Lake Victoria, Kenya)”. In; *Journal of Asian scientific research* 7(7) pp 279-287 [ISSN: 2223-1331\(p\)](#) [ISSN: 2226-5724](#)

12. **Opande GT.**, Musyimi DM. and Tirop CS. (2017); “A rich mushroom diversity at Maseno University, Siriba campus, Maseno (Kenya)” In *International journal of microbiology and mycology*. 6 (1) pp 1-8 [P-ISSN: 2309-4796](#)
13. **Opande GT**, Musyimi DM, Buyela DK. and Ouko JO. (2017); “Some pathogenic bacteria associated with fresh and smoked Nile perch (*Lates niloticus*) in Luanda market, Vihiga County (Kenya)”. In; *International Journal of pharmaceutical science Invention* 6(7) (July 2017) pp 13-17. [E- ISSN 2319-6718 P- ISSN 2319-670X](#)
14. **Opande GT.**, Musyimi DM. and Muthoni KC. (2017). “Effects of planting depth on seed germination and emergence of *Crotalaria brevidens* on Maseno soils, Maseno (Kenya)” In; *Journal of Agriculture and Veterinary sciences*; 10 (8). Ver.1 (Aug 2017) pp 30-34. [E-ISSN: 2319-2380 P-ISSN: 2319-2372](#)
15. **Opande GT.**, Musyimi DM. and Nyanganga HT. (2017) “Isolation and identification *Rhizoctonia solani* on the water hyacinth (*Eichhornia crassipes* [Mart] Solms. Laubach) in the Winam gulf (Lake Victoria, Kenya).” In *Journal of Agriculture and Veterinary sciences*; 10 (8) Ver. 1 (Aug 2017) pp 39-43. [E-ISSN: 2319-2380 P-ISSN: 2319-2372](#)
16. **Opande GT.** Mutebi C. and Arama PF. (2017); “Evaluation of selected *Acremonium zonatum* Saw. Gams. Mycoherbicide-oil mixtures for *Eichhornia crassipes* (Mart.) Solms. Laubach) biocontrol in Lake Victoria (Kenya)”. In; *Journal of Agriculture and Veterinary sciences*; 10 (8) ver.1 (August 2017) pp 51-53 [E-ISSN: 2319-2380 P-ISSN: 2319-2372](#)
17. Musyimi DM, Sikuku PA., **Opande GT.** and Korir VJ. (2017), “Allelopathic effects of *Eucalyptus camaldulensis* and *Eucalyptus globules* leaf extracts mixture on germination and growth of *Sorghum*” In; *Journal of biological science* 3 (7) (July 2017) 5 pp 58-78 [ISSN: 2455-7676](#)
18. **Opande GT**, Dida M, Onyango P and Wesonga C (2017); “Incidences and severity of maize ear rot disease in Western Kenya”. In *International journal of biosciences* 10 (2) pp 136-143 [P-ISSN: 2220-6655 E-2222-5234](#)
19. **Opande GT**, Dida M, Onyango P and Wesonga C (2017) “Evaluation and response of selected maize genotypes to *Stenocarpella maydis* in Maseno farm, Maseno (Kenya)”. In *International journal of biosciences*. 10 (2) pp 170-175. [P-ISSN: 2220-6655 E-2222-5234](#)
20. Onyango P, **Opande GT** and Nyunja AR. (2017) “Implications of pollen character coding and their diagnostic value in the determination of taxonomic value in the determination of taxonomic resemblance among some indigofera Linn. Species”. In *International Journal of life sciences research* 5(3) (August 2017) pp 107-115 [ISSN 2250-3153](#)

21. Buyela DK, Musyimi DM, Miruka D, **Opande GT** and Pascaline J (2017) “ Isolation and characterization of *Ralstonia solanacearum* strains of tomato wilt disease from Maseno Kenya” In *Journal of Asian scientific research* 7(9) (October 2017) pp404-420 [ISSN: 2223-1331\(p\)](#) [ISSN: 2226-5724](#)

22. Onyango P, Nyunja AR and **Opande GT**. (2017) “Validation of hierarchical cluster solution based on qualitative pollen characters of some indigofera Linn. Species”. In *International Journal of life sciences research* 5(4) (October 2017) pp 37- 44 [ISSN 2250-3153](#)

23. Buyela DK, Musyimi DM, **Opande GT** and Gichuhi MN (2018) “ Allelopathic effects of *Bidens pilosa* on seed germination and growth of *Amaranthus dubius*” In *Journal of Asian scientific research* Vol. 8 (3) pp 103-112 (e) [ISSN: 2223-1331\(p\)](#) [ISSN: 2226-5724](#) [DOI: 0.18488/journal.2.2018.83.103.112](#)

24. Juma EOA., Musyimi DM. and **Opande GT**. (2018). Enumeration and Identification of Rhizospheric Microorganisms of Sugarcane Variety CO 421 in Kibos, Kisumu County, Kenya. In *Journal of Asian scientific research* Vol. 8 (3) pp 113-127 [ISSN\(e\):2223-1331](#) [ISSN\(p\): 2226-5724](#) [DOI: 10.18488/journal.2.2018.83.113.127](#)

25. Juma EOA, Musyimi DM. and **Opande GT** (2018). Antagonistic Potential Of Selected Fungal and Bacterial Isolates From Rhizosphere of Sugarcane Variety CO 421 against *Sporisorium scitamineum* in Kibos, Kisumu County, Kenya. In *Applied science reports* 23(3) pp 7-15 [E-ISSN: 2310-9440 / P-ISSN: 2311-0139](#) [DOI: 10.15192/PSCP.ASR.2018.23.1.715](#)

26. Otieno Carren, **Opande GT** and Palapala A. Valarie (2018); Evaluation of taro leaf blight disease (*Phytophthora colocasiae*) incidence on Kenyan and Pacific Island taro (*Colocasiae esculenta*) accessions under in-vivo condition in Western Kenya. In *International journal of biosciences*. 12 (6) pp 355-361. [ISSN: 2220-6655](#) (Print) [2222-5234](#) (Online) [DOI: <http://dx.doi.org/10.12692/ijb/12.6.355-361>](#)

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BOOK CHAPTERS

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Author; Dr. George Timothy Opande
Coauthors; Mathews Dida, Phillip Onyango and Christine Wesonga
Publisher; Book Publisher International
Language; English
ISBN; 13 (15)978-93-5547-711-8 (Print) 978-93-5547-714-9 (eBook)
Publication date: September 1, 2022
2. **Title;** A Study of Mushroom Diversity at Siriba Campus, Maseno University Maseno, Kenya
Author; Dr. George Timothy Opande
Coauthors; David M. Musyimi and Tirop C. Sarah
Publisher; Book Publisher International
Language; English
ISBN: 13 (15)978-93-5547-711-8 (Print) 978-93-5547-714-9 (eBook)

Publication date; September 1, 2022

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1. “Impacts of Grazing on Herbaceous Plant Species Diversity and Biomass Production in Borana Rangeland, Southern Ethiopia” for *International Journal of Research and Innovation in Social Science* (IJRISS) ISSN: [2454-6186](#) (Manuscript reviewed on 01 June 2025)
2. “The control of pathogenic infections in *Clarias gariepinus* fish species using medicinal plant extracts supplemented in fish feed.” for *International Journal of Research and Innovation in Social Science* (IJRISS) ISSN: [2454-6186](#) (Manuscript reviewed on 22nd May 2025)
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173. "Virulence spectrum among *Rhizoctonia solani* f. sp. *sasakii* isolates from multi-geographical locations of India" for *International Journal of Environment and Climate Change* (IJECC) [ISSN: 2581-8627](#) (Manuscript reviewed on 10th January 2023)
174. "Morpho-molecular identification and pathogenicity in *Fusarium* pathogens associated with vascular wilt in Cowpea (*Vigna unguiculata* L.)" for *International Journal of Plant & Soil Science* (IJPSS) [ISSN: 2320-7035](#) (Manuscript reviewed on 9th January 2023)
175. "Systematic and evolution of Fungi and Fungi like Organisms: A review" for *International Journal of Plant & Soil Science* (IJPSS) [ISSN: 2320-7035](#) (Manuscript reviewed on 28th December, 2022).
176. "Survey, isolation frequency and pathogenicity of root rot pathogen of *Cedrus deodara* (Roxb.) G. Don in district Solan, Himachal Pradesh" for *International Journal of Environment and Climate Change* (IJECC) [ISSN: 2581-8627](#) (Manuscript reviewed on 19th December 2022)
177. "A study on isolation identification and morphological character of leaf blight caused by *Alternaria brassicae* on Indian mustard" for *International Journal of Plant & Soil Science* (IJPSS) [ISSN: 2320-7035](#) (Manuscript reviewed on 5th December, 2022).
178. "Identification of *Lasiodiplodia pseudotheobromae* causing leaf blight disease of *Thaumatococcus daniellii* (Benn.) Benth (Sweet Prayer Plant)" for *Journal of Advances in Biology & Biotechnology* (JABB) [ISSN: 2394-1081](#) (Manuscript reviewed on 7th December, 2022).

179. "Studies on antimicrobial effect of botanicals on leaf blight of Indian mustard caused by *Alternaria brassicae*" for *International Journal of Plant & Soil Science* (IJPSS) ISSN: 2320-7035 (Manuscript reviewed on 29th September 2022)
180. "Cultural, molecular and genetic variability of *Ustilaginoidea virens* causing rice false smut disease" for *International Journal of Plant & Soil Science* (IJPSS) ISSN: 2320-7035 (Manuscript reviewed on 27th September 2022)
181. "Laboratory Screening Of Management Options Against Fall Armyworm (*Spodoptera Frugiperda*) (J. E. Smith) (*Lepidoptera: Noctuidae*) In Maize at Asossa Zone, Western Ethiopia" for *International Journal of Plant & Soil Science* (IJPSS) ISSN:2320-7035 (Manuscript reviewed on 26th September 2022)
182. "Susceptibility and Characterization of *Vibrio cholerae* obtained from Aqua-based Samples in Selected Local Government Areas, Zamfara State, Nigeria" for *International Journal of Research and Innovation in Applied Science* (IJRIAS) ISSN: 2454-6194 (Manuscript reviewed on 15th September 2022)
183. "Monitoring field virulence of *Xanthomonas oryzae* pv. *oryzae*" for *International Journal of Environment and Climate Change* (IJECC) ISSN: 2581-8627 (Manuscript reviewed on 9th September 2022)
184. "Evaluation of different IDM modules against chilli viral complex" for *International Journal of Environment and Climate Change* (IJECC) ISSN: 2581-8627 (Manuscript reviewed on 20th August 2022)
185. An overview on phenomics applications in different agriculture disciplines in *International Journal of Plant & Soil Science* (IJPSS) ISSN: 2320-7035 (Manuscript reviewed on 17August 2022)
186. "Review: The Carbon Tax Implementation Plan in Indonesia" for *International Journal of Research and Scientific Innovation* (IJRSI) ISSN: 2321-2705 (Manuscript reviewed on 12TH August 2022)
187. "Gummy stem blight disease caused by *Didymella bryoniae* on *Luffa acutangula* and its molecular identification - a first report in Karnataka, India" for *Asian Journal of Agriculture and Allied Sciences* (AJAAS) ISSN: 0972-2025 (Manuscript reviewed on 1ST August 2022)
188. "Physicochemical characterization of *Fusarium moniliforme* isolated from infected maize plants from Faisalabad, Pakistan". *Plant Cell Biotechnology and Molecular Biology* (PCBMB) ISSN: 0972-2025 (Manuscript reviewed on 1ST August 2022)
189. "The efficacy of neem extracts on the control of brown blotch of cowpea in Mubi, Nigeira" for *International journal of research and scientific innovation* (IJRSI) ISSN:2321-270 manuscript reviewed on 13th July 2022)
190. "Suitable management strategies for Sooty mold measurement of citrus decline to the tolerable extent" for *International Journal of Plant & Soil Science* (IJPSS) ISSN: 2320-7035 (Manuscript reviewed on 14th July 2022)

191. "In vitro evaluation of antagonistic potential of native *Trichoderma* spp. against *Cochliobolus heterostrophus* causing maydis leaf blight of maize in Manipur". for *International Journal of Environment and Climate Change* (IJECC) ISSN: 2581-8627 (Manuscript reviewed on 13th July 2022)
192. "Assessment of pull and push technologies in managing *Spodoptera frugiperda* in maize and Multivariate Analysis of Associated Variables" for *Asian Journal of Research in Crop Science* (AJRCS) ISSN: 2581-7167 (manuscript reviewed on 24th June 2022)
193. "Review: Evaluation of the food of red-billed *Quelea* during dry season in Gyawana ecosystem and environs" for *International Journal of Research and Scientific Innovation* (IJRSI) Online ISSN: 2321-2705. (Manuscript reviewed on 17th June 2022)
194. "Efficacy evaluation of abiotic elicitors for the management of black rot disease of cauliflower incited by *Xanthomonas campestris* pv. *campestris* for *International Journal of Environment and Climate Change* (IJECC) ISSN: 2581-8627 (Manuscript reviewed on 17th June 2022)
195. "Bio-mineral Phosphorus Fertilizer for Rice Cultivation" for *International Journal of Latest Technology in Engineering, Management & Applied Science* (IJLTEMAS) ISSN: 2278-2540 (manuscript reviewed on 11/6/2022)
196. "Review on Breeding Approaches, Challenges and Management Options to control and Develop Finger Millet Blast Disease Resistance" for *International Journal of Plant & Soil Science* (IJPS) ISSN: 2320-7035 (Manuscript reviewed on 22nd May 2022)
197. "Effectiveness of Some Bio-pesticides in Managing Major Lepidopteran Insect pests of cabbage (*Brassica oleracea* var. *capitata* L)" for *Asian Research Journal of Agriculture* (ARJA) ISSN: 2456-561X (Manuscript reviewed on 5th May 2022)
198. "Evaluation of Mungbean Advance Lines/Varieties Against Two Major Diseases Of Mymv & Ulcv" for *Plant cell biotechnology and molecular biology* (PCBMB) ISSN: 0972-2025 (Manuscript reviewed on 27th April 2022)
199. "Nitrogen-fixing and phosphate solubilizing potentials of rhizospheric bacteria from the rhizosphere of two cassava varieties in Iyamho community," for *International Journal of Research and Innovation in Applied Science* (IJRIAS) ISSN: 2454 - 6194 (Manuscript reviewed on 22nd April 2022)
200. "A Selective Review of Lipid Autoxidation and Rancidity, Antioxidants, and Dithiooxamide" for *Asian Journal of Medicine and Health* (AJMAH) ISSN: 2456-8414 (Manuscript reviewed on 7th April 2022)
201. "First report of *Phytophthora sansomeana* (e. m. Hansen) causing leaf blight of taro (*Colocasia esculenta* (L.) Schott) in south eastern Nigeria" for *International Journal of Pathogen Research* ISSN: 2582-3876 (IJPR) (Manuscript reviewed on 28th February 2022)
202. "Disrupted brain oxidative stress markers and possible amnesic tendency traceable to *Cannabis* exposure in albino wistar rats" for *Asian Journal of Research and Reports in Neurology* Article no. AJORRIN 83381 (Manuscript reviewed on 13th February 2022)

203. "Exploration of antioxidant effects of crude extract of mangrove plant *Avicennia marina*" for *Journal of Pharmaceutical Research International* (JPRI) ISSN: 2456-9119 DOI: <http://dx.doi.org/10.9734/jpri> (Link) (Manuscript reviewed on 1st December 2021)
204. "Anti-inflammatory and antioxidant activity of white pepper oleores in mediated *Selenium nanoparticles*" for *Journal of Pharmaceutical Research International* (JPRI) (Manuscript reviewed on 1st December 2021) ISSN: 2456-9119 DOI: <http://dx.doi.org/10.9734/jpri> (Link)
205. "Anti-bacterial and anti-oxidant studies of *Moringa oliefera* extracts" for *Asian Journal of Current Research* (AJOCR) (Manuscript reviewed on 31st October 2021)
206. "A Effect of Inoculating *Bradyrhizobium Liaoningense* on Growth, Chlorophyll Concentration, Nodulation and Yield of Soya Beans: Effect of Inoculating *Bradyrhizobium Liaoningense* on Growth, Chlorophyll Concentration, Nodulation and Yield of Soya Beans" for *Bacterial Empire Online* ISSN 2585-9374 (Manuscript reviewed on 18th October 2021)
207. "Competence of Secondary School Teachers' Usage of Bloom's Taxonomy of Education on Lesson Preparation, Presentation and Students' Assessments in Science," for *International Journal of Research and Innovation in Social Science* (IJRISS) ISSN: 2454-6186 Online (Manuscript reviewed on 19th October 2021).
208. "Bacteriological assessment of finger tips of ladies with artificial nails," for *International Journal of Research and Scientific Innovation* (IJRSI) Online ISSN: 2321-2705. (Manuscript reviewed on 23rd September 2021)
209. "The importance of bio fertilizers as alternative soil fertility amendments," for *Bacterial Empire Online* ISSN 2585-9374 (Manuscript reviewed on 14 august April 2021)
210. "Efficacy of methanolic and aqueous extracts of *Thevetia peruviana* (pers.) K.Schum on growth of *Phytophthora colocasiae* Racib, causal agent of taro late blight in Cameroon" for *Journal of Applied Life Sciences International* (JALSI) Online ISSN:2394-1103 (Manuscript reviewed on 16th May 2021)
211. "Antioxidants and biomarkers of inflammation as risk factors of vascular cognitive impairment in adult hypertensives" for *Chemical Science International Journal* (CSIJ) Online ISSN: 2456-706X (Manuscript reviewed on 26th April 2021)
212. "Reviewing the suitability of mulberry (*Morus Alba* L.) for integration into the farming system for the mitigation of climate change" for *International Journal of Horticultural Science and Technology* (IJHST) Print ISSN: 2322-1461 Online ISSN: 2588-3143 (Manuscript reviewed on 20th April 2021)
213. "Citric acid Production by *Aspergillus niger* and *Aspergillus niger* Isolated from soil in Keffi. ," for *International Journal of Research and Innovation in Applied Science* (IJRIAS) ISSN: 2454-6194 6194 (Manuscript reviewed on 20th March 2021)
214. "Evaluation of the antifungal activities of local herbs on dermatophyte species isolated from rice farmers in Ebonyi State, Nigeria," for *International journal of research and innovation in applied science* (IJRIAS) ISSN: 2454-6194 (Manuscript reviewed on 8th March 2021)

215. "Applications of nanotechnology in vaccine development for corona virus (SARS-CoV-2) disease (Covid-19)" for *International Journal of Research and Scientific Innovation* (IJRSI) ISSN: [2321-2705](#) (Manuscript reviewed on 1st March 2021).
216. In-vitro screening for disease resistance in wheat genotypes against *Bipolaris sorokiniana* using callus culture method for *Current Journal of Applied Science and Technology* (CJAST) Online ISSN: [2457-1024](#) (Manuscript reviewed on 21st January 2021).
217. Assessment of forage species on community rangelands, A case study in Tolon District *International Journal of Research and Innovation in Applied Science* (IJRIAS) ISSN: [2454 -6194](#) (Manuscript reviewed on 21st January 2021).
218. "Pesticide Residues in Vegetables Collected from Different Markets of Navsari District" for *International Research Journal of Pure and Applied Chemistry* (IRJPAC) Online; ISSN: [2231-3443](#) (Manuscript reviewed on 3rd January, 2021)
219. "Survey of Microbial contamination of Garri samples sold in Oye Ekiti Local Government area of Ekiti State and their susceptibility to antibiotics" for *International Journal of Research and Innovation in Applied Science* (IJRIAS) ISSN: [2454 - 6194](#) (Manuscript reviewed on 1st January 2021).
220. "Determination of nutrient composition and associated spoilage fungi of different varieties of breadfruit" for *International Journal of Research and Innovation in Applied Science* (IJRIAS) ISSN: [2454-6194](#) (Manuscript reviewed on 11th November 2020).
221. "Role of ascorbate–glutathione (AsA–GSH) pathways in *Phytophthora* leaf blight disease resistance in taro (*Colocasia esculenta* L. Schott)" for *International Research Journal of Pure and Applied Chemistry* (IRJPAC) Online; ISSN: [2231-3443](#) (Manuscript reviewed on August 24, 2020)
222. "Traditional use of plants as medicine and poison by Tagin and Galo tribe of Arunachal Pradesh. " for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed on April 12, 2019).
223. "Evaluation of chemical constituents and antimicrobial activities of *Brackenridgea zanguebarica* olive and approach for its conservation. " for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed on March 20, 2019).
224. "Total phenolic content and antioxidant activities of different extracts of five selected tropical species. " for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed on March 13, 2019).
225. "Mechanism of the anti-oxidative and anti-diabetic potentials of *Elephantorrhiza elephantina* (Burch.) *skeels* root extracts". for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed on January 16, 2019).
226. "Genus *Prismatomeris* (Rubiaceae): phytochemistry and their biological activities" for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed on December 6, 2018).

227. "Pharmacological evaluation of ethnobotanical *Glycosmis Pentaphylla* Lour as an anti-diabetic, anti-oxidant and cytotoxic agent" for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed on August 27, 2018).
228. "Botanical and genetic characterization of *Hibiscus syriacus* L. cultivated in Egypt" for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed on August 21, 2018).
229. "Ethnomedicinal evaluation of medicinal plants used against gastrointestinal disorders in western middle Atlas region (Morocco)". for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed on June 4, 2018).
230. "Screening for different polyphenolic compounds from the selected species of *Osbeckia* L; A search" for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed on May 9, 2018).
231. "HPTLC screening for flavonoids content in leaf extracts of *Syzygium cumini* (Linn.) and its antimicrobial activity" for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed on April 20, 2018).
232. "Chemistry, ethnobotanical uses and biological activities of lichen genus *Heteroderma trevis* (Physciaceae; Lecanorales; Ascomycota) a comprehensive review" for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed on Mar 14, 2018).
233. "Monitoring of essential oil production in Japanese mint (*Mentha arvensis* L) treated with degraded oligomers of sodium alginate under field conditions" for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed on October 28, 2017).
234. "Acquisition of ethnobotanical knowledge on zingiberales from tribal's of Kollam district, Kerala, India" for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed on July 10, 2017).
235. "Microscopic examination of *Clausena dentate* (Willd.) Roem. (Syn *C. willdenovii* Wright & Arn) Rutaceae " for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed in June 12, 2017).
236. "*Paris polyphylla* Smith – A critically endangered, highly exploited medicinal plant in the Himalayan region" for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed on January 24, 2017).
237. "Morphological and anatomical features of *Bauhinia vahlii* Wight & Arnott. Grown in Egypt" for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed on August 13, 2016).
238. "Development of linear model for leaf area measurements of two medicinally important plants *Helicteres isora* L. and *Vitex negundo* L." for *Journal of applied pharmaceutical sciences*; (JAPS) Online ISSN: [2231-3354](#) (Manuscript reviewed on June 4, 2016).

UNIVERSITY ADMINISTRATIVE RESPONSIBILITIES

1. **2022 Jan** to date; **Dean School of Science**
School of Science,
Kaimosi Friends University (KAFU),
Kaimosi, Kenya
2. **2019 - 2022; Chair of Department (COD),**
Department of Biological & Agricultural sciences,
School of Science,
Kaimosi Friends University (KAFU),
Kaimosi, Kenya
3. **2019 (Oct-Dec); Ag. Director for Research & innovation,**
Directorate of research and innovation (DRIO)
Kaimosi Friends University (KAFU),
Kaimosi, Kenya
4. **2013 -2019; Chairman Departmental Post Graduate committee,**
School of biological and physical sciences
Department of Botany,
Maseno University,
Box 333 - 40105 Maseno Kenya.
5. **2013 -2019; Chairman ISO committee,**
School of biological and physical sciences
Department of Botany,
Maseno University,
P. O. Box 333-40105
Maseno, Kenya.
6. **2016 -2019; Member Directorate of Graduate Studies Board (DGS),**
Directorate of Graduate studies
Maseno University,
P. O. Box 333-40105
Maseno, Kenya.

CONSULTANCIES.

1. **2022 – 2025; The Republic of Maldives, Ministry of Fisheries, Marine Resources and Agriculture,** to undertake the following;
 - (i) Acquire *Colocasia esculenta* resistant germplasm that are suitable for Maldives growing conditions;
 - (ii) Conducting necessary field research and assessments to identify the suitability of select varieties.
 - (iii) Finalization of a cultivation plan for selected germplasm for cultivation in the Maldives;

(iv) Provide necessary training's and information to selected island communities and extension personnel from the ministry

2. **2022 – 2025; The Republic of Maldives, Ministry of fisheries, marine resources and agriculture plant protection & quarantine section**
 - i) Importation and introduction of resistant Taro into the Republic of Maldives.
 - ii) Training on sanitary handling and processing of resistant Taro for importation.

RESEARCH FUNDS ATTRACTED

1. **2024 (August) OWSD PG Fellowships** funded by UNESCO for **USD 11,273.47 USD (Eleven thousand two hundred seventy three and forty seven cents only)** for Ms. Gebeyehu Desta Mulu and **Dr George Timothy Opande** research at Kaimosi Friends University (KAFU). Title of research is; *“Production and optimization of bioethanol gel fuel, briquette fuel and biofertilizer from selected agricultural wastes and water hyacinth (Eichhornia crassipes) around Bahir Dar, Northern Ethiopia”*
2. **2022 -2023 African German Network of Excellence in Science (AGNES)**, through the “Programme Advocating Women in Science, Technology, Engineering and Mathematics” for Ms. Gebeyehu Desta Mulu and **Dr George Timothy Opande** research at Kaimosi Friends University College (KAFUCO). Title of research is; *“Production and optimization of bioethanol gel fuel, briquette fuel and biofertilizer from selected agricultural wastes and water hyacinth (Eichhornia crassipes) around Bahir Dar, Northern Ethiopia”*
3. **2022- 2023 (May 22) OWSD PG Fellowships** funded by UNESCO for **USD 7,391.31 (Seven thousand three hundred ninety one and thirty one cents only)** for Ms. Gebeyehu Desta Mulu and **Dr George Timothy Opande** research at Kaimosi Friends University (KAFU). Title of research is; *“Production and optimization of bioethanol gel fuel, briquette fuel and biofertilizer from selected agricultural wastes and water hyacinth (Eichhornia crassipes) around Bahir Dar, Northern Ethiopia”*
4. **2020-2022 (December) OWSD PG Fellowships** funded by UNESCO for **USD 7,391.31 (Seven thousand three hundred ninety one and thirty one cents only)** for Ms. Gebeyehu Desta Mulu and **Dr George Timothy Opande** research at Kaimosi Friends University (KAFU). Title of research is; *“Production and optimization of bioethanol gel fuel, briquette fuel and biofertilizer from selected agricultural wastes and water hyacinth (Eichhornia crassipes) around Bahir Dar, Northern Ethiopia”*
5. **2022 -2023 USD\$ 9684.05** awarded to **George T. Opande & Carren Otieno** by the **Ministry of Finance (Maldives)**, on behalf of the **Ministry of Fisheries, Marine Resources and Agriculture (Maldives)** on behalf of *Kaimosi Friends University (KAFU)* for Identification, acquisition of resistant *Colocosae esculentus* germplasm and introduction to the Republic of Maldives from the Republic of Kenya.

6. **2016-2021 National Research Fund (NRF) Multidisciplinary research grant;** Awarded a grant of **Kshs. 10,234,620.00/= (Ten million Two hundred thirty four thousand six hundred twenty shillings only)** for 3 year research titled; *“Mitigation of climate change through sustainable integration of maize based agro-forestry systems for Food Security and Poverty Reduction in Kisii and Vihiga (Western Kenya)”*.
7. **1997-2001 Federal Republic of Germany competitive grant for in country research studies through DAAD;** Awarded a grant of **750, 000/- (Seven hundred and fifty thousand only)** for a 3 year PhD research scholarship at Maseno University.
8. **1996-1997 United Nations Education and Science Organization (UNESCO);** Awarded grant of **Kshs. 1,000,000/= (One million shillings only)** to **George T Opande & Dr. William Kudoja;** for L. Victoria research study titled *“Studies on the biological control of water hyacinth and its associated limnology in Lake Victoria”*

ACADEMIC REFEREES

1. **Prof. GODFREY WAFULA NETONDO,**
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