



CURRICULUM VITAE

KENYATTA UNIVERSITY
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NAME: PROF. PAUL OKEMO OWUOR PhD.

POST-DOC: FULBRIGHT SCHOLAR (Colorado State University 2001-2002)

QUALIFICATIONS: B.SC. (Biochemistry/Microbiology) M.SC. PhD. (Microbiology)

HIGHER EDUCATION

Kenyatta University- PhD. (Medical Microbiology)-1992-1996

Wyoming State University (U.S.A)-B.SC, (Biochemistry/Microbiology)- (1976) M.SC
(Microbiology)-1976-1978

EARLY EDUCATION

Maseno National School,(H.S.C)- 1970-1971- Physics, Chemistry,

Biology Maseno National School,(C.S.C)-1966-1969 – 15points

Ebusakami Primary School (K.P.E)- 1958-1965

PROFESSIONAL PROGRESSION

Ag. DVC (Academic) – Feb.2020to date

Acting Deputy Vice- Chancellor (academic)- 2015, 2018, 2019, and 2020

Deputy Vice-Chancellor (F&D)- 5times

Acting Deputy Vice- Chancellor (Administration)- (once) 2018.

Appointment by Cabinet Secretary on Biosafety Appeals Board- 2014- 2017

Full Professor from 2010and (Dean Graduate School (2011- Octo.2018)

Associate Professor-August 2004 to 2010

Senior lecturer-July 1999- July 2004

Lecturer-June1992-June1999

Tutorial Fellow- September1989-June1992

Deputy Director (Q.A)- Sterling Winthrop- International pharmaceutical Company- 1984 July-Aug. 1989

Head of Microbiology Laboratories (Kenya Bureau of Standards) 1982 July-1984 June.

Production and Q.A Manager (Delmonte –International food processing company)

1978Nov.-1982 June

SENIOR ADMINISTRATIVE POSITIONS HELD

- (i) **AG.** Deputy Vice-Chancellor (DVC)-Academic KU
- (ii) **AG.** Deputy Vice-Chancellor (DVC)- Finance & Development KU
- (iii) **AG.** Deputy Vice-Chancellor (DVC)- Administration KU
- (iv) **Dean** Graduate School at KU (**8 years**)
- (v) **C.E.O,** African Biological Safety/Security-**8 years**
- (vi) **Ag Director** ACU (**3months**, then left for Fulbright Scholarship to USA)
- (vii) **Deputy Director (QA)** Sterling Winthrop (International Pharmaceutical Company)- **5 years**
- (viii) **Head of Microbiology Labs (KEBS)- 2years**
- (ix) **Production and QC Manager (Delmonte, Kenya Cannery)-4years**

DRAFTING OF STRATEGIC PLANS

Was involved in drafting of a few strategic plans:

1. The strategic plan for Biosafety Appeals Board. This was a ministerial appointment by the then Cabinet secretary for Education Prof. J. Kaimeny.
2. I was
3. I was appointed a member of the Board for three years and during that time one of the terms of Reference was to draft a strategic plan for the Board.
4. The strategic plan for The African Biological Safety Association. As the CEO of the Association I had to be involved in drafting the strategic plan for the Association. I had to share the strategic plan with all the Regional bodies ie. At Azalai Hotel Bamako, Mali on 15th oct. 2010, Sundon Hotel Johannesburg South Africa on April 17th 2012 and Hilton Hotel Addis Ababa Ethiopia on 14th March 2011

IMPLIMENTATION OF STRATEGIC PLANS

As Dean of Graduate School and many times as Acting DVC (Acad) I have been involved in a lot of implementation of Strategic plans ie. For The graduate School and for the Academic Division of the University

COLLABORATIVE RESEARCH IN THE AREA OF SPECIALISATION

Muhumbili University (Dar salaam-Tanzania), Makerere University (Kampala-Uganda)- March 2007 to 2012

- **Lead Research Scientist** for the VicRes project on medicinal plants Research on the search for plants used by the local people in the three countries for the treatment of Tuberculosis- (**See publications**)
- **Lead scientist and Researcher** on Samburu community Medicinal plants and worked with Earth watch volunteers from around the world USA, UK, Germany, Argentina and France (8 years) (**See publications**)

Colorado State University USA- August 01-June 02.- (See publications)

- **Novel techniques** for focused compound production by plants to provide needed therapeutic drugs

University of Essen Medical School, Germany- Sept 1994- April 1995 (See publications)

- Extraction and efficacy testing of Plant compounds used for treatment of pathogens in man

Robert Koch Medical Institute (Berlin Tech. University-West Germany)-may 1984-July 1984.

- Microbiological screening of urine, stool, body swabs and blood of patients with resistant infections to isolate the infective agent and to determine alternative antimicrobial chemotherapy.

At “Landesuntersuchungsinstriint”(West Germany)-February 1984-April 1984.

- Isolation and identification of various *mycotoxins* in foods using T.L.C, and Histamin and histidine screening in canned fish.

RESEARCH GRANT AWARDS

- **African Research Grant on COVID-19-Ksh. 20Million 2020-2022**
- **World Bank Grant- USD 1,879,00** for Conservation and management of medicinal plants in Kenya 2010-2015. This included outreach to communities in Kenya to determine what each community uses, record the plants used, Methods of harvesting, preparation and mode of administration. It was followed by training each community on cultivation, conservation, sustainable harvesting, and Laboratory determination of efficacy for the plants used (**See publications**). We **trained and disseminated information to 46/47 Counties in Kenya**. We only left out Wajir because of the EL Shabab threats in the Region.
- **Eathwatch Research Grants- USD 54,000 per year** for Samburu conservation of Medicinal plants 2010-2013
- **Horticultural Crops Development** Authority Research award (HRE). Management of bean rust on French beans with selected plant extracts (2008-2009).
- **Earth watch Research award** for work among the Masai of Likipia and Samburu. (2004-2013)
- **VicRes research award-USD 405,000** for Research in antimycobacterial compounds from medicinal plants used by indigenous people in Siaya, Kisii, Busia and Teso, Kenya.(2006-2009).
- **Collaborative Research award-60,000Rand** with the University of Fort Hare South Africa on microbiological water pollution (2004-2005).
- **VicRies Research awards** for the Lake Victoria Research on heavy metal pollution and microbial gene transformation (2003-2004).
- **Fulbright award for post-doc Research** for one academic year at Colorado state University in USA (2001-2002).
- **DAAD visiting scholar award** to do research at the University of Essen Medical School in Germany (1994-1995).
- **Carlduisberg Centran (CDG) professional award** to do research at Robert Koch Technical Institute in Berlin (1984-1985).

HONOUS AND ACCOLLADES

- **Chairman-Full Professors Caucus- Kenyatta University**

- UN 1540 Consultative committee- leader of the African delegation
- Africa's representative on the IFBA Board
- Fulbright Scholar
- Recognized by Institute of American Bibliographic society in "WHO IS WHO" in the world , 2003
- Member of the Kenya Academy of Sciences
- DAAD Scholar.
- Member of the Phi, Gamma Honor role USA
- Member of Alpha, Epsilon honor role USA

SHARING SCIENTIFIC RESEARCH WITH THE COMMUNITY (COMMUNITY OUTREACH)

- Siaya District, (5th- 14th April 2004). Heavy metal pollution of the Lake Victoria region. Talking to the community about the importance of environmental conservation.; Seme, Alego, Ugenya and Gem.
- Laikipia District working with the community on medicinal plants (13th - 18th March 2005), Ngare Ndare, Kisima and Subuiga.
- Laikipia District working with herbalists on medicinal plants (Sept. 6th-10th , 2006). Lewa conservancy on medicinal plants
- Samburu District (13th-27th May, 2007). Connecting Earthwatch volunteers to communities in Samburu for investigations on medicinal plants of the Samburu.
- Samburu District (3rd- 20th Sept. 2007). Collecting Indigenous knowledge of the Samburu on medicinal plants.
- Samburu District (15th- 18th April 2008). Talking to the communities; Namunyak, Nkaroni, Ludung- Okwe, Ngetuk-Ongeron, and Ngilai East on scientific findings of their medicinal plants.
- Machakos District Herbalists Association: Training District herbalists on Medicinal plant Conservation and field Management at the Tea Tot Hotel. Sept 27th to Oct 2nd 2010
- North Rift herbalist Association, at Serikwa Hotel in Eldoret, 14th to 18th 2010
- Nyanza Community Health attendants and Herbalists, at Kisumu Hotel, 3rd to 8th February, 2011
- Western Kenya Herbal practitioners Association, at Bishop Stam Hotel in Kakamega, March 10th to 14th 2011
- Meru Herbal practitioners Association April, 20th-24th 2011
- Upper Eastern Herbal practitioners Association, at Embu Agricultural training centre, May 4th to 8th 2011
- Coast Regional herbal practitioners association, at Milele Hotel, June 10th to 18, 2011
- Kisii Herbal practitioners Association, June 26th -29th 2011
- Isiolo and Garisa Herbal practitioners, Moiben Hotel, Isiolo, July 2011
- Kilifi and Malindi Farmers, in Malindi, on Biosafety and impact of GMOS, sponsored by The Government of Kenya under the Biosafety/Biosecurity program 2016
- Kitale farmers on Biosafety and GMOs, at the Kitale Research centre 2016
- Embu farmers at the Embu Government training Centre 2016
- Nyeri farmers Association on GMOS at the Nyeri polytechnic, 2017
- Makueni farmers Association on GMOs, at the Voi Technical College, 2017
- Kwale County Agricultural professionals, at the Kwale polytechnic, 2017
- Kisumu Farmers and community, at Tom Mboya Centre, 2017

SEMINARS ORGANIZED

- Emerging and Re-emerging infectious Agents on the African Continent,

- **Casablanca, Morocco, March, 23rd to 25th , 2015**
- Laboratory Agents use and control, to effectively monitor Biosafety and Biosecurity in Africa, **September, 2014, Cape Town, South Africa**
- Utilization of Biosafety primary and secondary barriers, for prevention of occupational hazards, **Johannesburg South Africa, March, 2013**
- Biorisk management Seminar in **Accra, Ghana, October, 2012**
- Seminar for Franco-phone speaking countries of Western African Continent, sponsored by the US Department for Biosafety Engagement programme on Biosafety/Biosecurity at the Azalai Hotel, **Bamako, Mali. Oct. 15th-23rd, 2010**
- 1st annual International Biological Safety Conference on handling of infectious material in Biological Labs **March 8th-, 2010 at the KEMRI Training Centre, Nairobi, Kenya**
- International Seminar on Biosafety and Biosecurity CDC/KEMRI sponsored at the KEMRI headquarters, **Nairobi, Kenya. March 16-18, 2009.**
- National seminar in applied microbiology-**April 1999-Methodist conference hall in Nairobi, Kenya.**
- Regional seminar (for the African Region) **in microbiology- April 2001.**
- Proposal writing seminar for Kenyatta University **Faculty of science-Sept 1999.**
- International seminar in microbiology- **April 2004 at The Kenya school of Monetary studies, Nairobi, Kenya.**

SEMINARS AND WORKSHOPS ATTENDED

- World Bank training workshop for herbalists in Kenya at Nakuru Kenya for the Kericho and Bomet Herbalists, July 6-July 15, 2012
- African Workshop for establishment of Laboratory maintenance Center for Africa at **Enugu, Nigeria, June 14-18, 2012**
- IFBA and AfBSA Conference held at the **Sundon Hotel Johannesburg, South Africa**, on Biosafety and Biosecurity **April 17- 22, 2012**
- World Bank Consultant (Medicinal and aromatic Plants) – Training Rural Herbalists at **Bishop Stam Hotel Kakamega, 19th March – 25th March 2011**
- Conference on Laboratory Medicine organized by The African Society for Laboratory Medicine (ASLA)- **Hilton Hotel Addis Ababa, Ethiopia 14th March – 16th March 2011**
- World Bank Consultant (Medicinal and aromatic plants)- Workshop at **Polyview Hotel in Kisumu, 5th to 10th March 2011**
- Workshop (World Bank Consultant) Training herbalists on Conservation and field Management of Medicinal plants, **Pigmy Hotel, Maua Meru 21st-25th Feb 2011.**
- International Conference on Global Biosafety and Bio-security, "Taking action" **Power Hotel, Bangkok, Thailand, Feb 15th-17th 2011**
- Workshop (World Bank Consultant). Training herbalists on Conservation and field Management of medicinal plants, **EAST college Embu, 5th-11th Jan 2011**
- UN Workshop on "The beyond Bounderies Initiative: Development and Capacity Building in Kenya with International Security Assistance- The UN 1540, 1373 Initiative"- **Serena Hotel Nairobi, Kenya. 6th Dec. 2010**
- Biosafety/Biosecurity workshop for dealing with zoonotic pathogens at the **Azalai Hotel, Bamako, Mali. 15th Oct.-23rd Oct 2010**
- Workshop (World Bank Consultant) to train herbalists in methods for conservation and sustainable management of medicinal plants, **Machakos Garden Hotel 21st-23rd July 2010.**

- The Asia- Pacific Biosafety Association meeting held in **Seoul, South Korea from 24th May to 1st June 2010**
- Consultative workshop organized by the American Civilian Research and Development Foundation (CRDF) in **Arlington Chicago and Washington DC from 5th to 15th May 2010**
- The 13th Annual Conference of the European Biosafety Association (EBSA) in **Ljubljana, Slovenia from 18th-26th April 2010**
- African Regional UNSCR 1540 workshop on Biosafety and Biosecurity at **UN Offices in Gigiri, Nairobi- Kenya, 2nd to 4th Feb 2010.** □
- Lake Victoria Research Initiative (VicRes), annual forum at **Kenya school of monetary studies from, May 27-30, 2009 Nairobi, Kenya.**
- Biosafety and Biosecurity Awareness workshop, organized by CDC/KEMRI at the **KEMRI headquarters in Nairobi, Kenya, March 16-18, 2009.**
- VicRes donors workshop to present Research findings & to retool the proposals to be more focused on poverty alleviation and environmental restoration in the Lake Victoria Basin **Nile Resort Hotel, Jinja, Uganda 27th May-31st May 2008.**
- Lead Scientists workshop at Entebbe Uganda to discuss cluster position paper April 8th-11th 2008.
- Workshop on lead Scientists for the VicRes research project in the East African region held at the **Nile Resort in Jinja, Uganda. 9th- 13th March 2008.**
- Workshop on Medicinal plant search for indigenous knowledge and plant compound analysis, **Makerere University Uganda 11th – 14th Oct. 2007.**
- Workshop on Lead VicRes researchers at the **Nile Resort in Jinja , Uganda, 19th May- 25th May 2007**
- Workshop on the Scientists, partners and Community fellows to work out specific Research and educational mechanisms to carry out in Samburu using existing resources, held at **Bomen Hotel , Isiolo April 5th -7th 2006.**
- Conference of Stakeholders on Intellectual property Rights (IPR) held at **Hilton Hotel from 3rd-4th of March 2006.**
- Workshop on the review of papers on the Millenium Development Goals (MDGs), **at Utalii on 2nd March 2006.**
- African Programme for Health Innovation –APHI KEMRI IP and Technology Transfer Management Workshop KEMRI Training Facility, **KEMRI HQ, Nairobi, Kenya. 30th January- 3rd Feb. 2006.**
- Intellectual property and Transfer of Technology (IP and TT) organized by ASARECA, at **Imperial Beach Hotel Resort in Entebbe Uganda, from 31st July-6th August 2005.**
- Kenya DAAD Scholars Association Conference on Re-Invigorating the University mandate in a globalizing environment: Challenges, obstacles and way **Forward May 26th-27th 2005.**
- Establishment of the Kenya Biological Resource Centre at the National Agricultural Research Laboratories (**KARI**) in **Nairobi Kenya, 25th -26th January 2005.**
- Attended a workshop at the Monsanto gene transformation center in **St. Louis**

Missouri USA, 19th-20th July 2004.

- Attended seminar on Intellectual property Rights at **Michigan State University USA 9th –15th July 2004.**
- Lake victoria Research Initiative workshop in **Jinja Ugand- 11-15th May 2004**
- Samburu conservation Research initiative (CRI) at **Sportsman Arms Hotel, Nanyuki, August 1st-3rd- 2003.**
- Strategic planning for conservation of the Samburu ecological system-**Panafric Hotel Nairobi, April 14th-16th-2003.**
- Handling and disposal of hazardous waste for a friendly environment **Fort Collins Colorado, USA, Feb.10th-15th the year 2002.**
- Fulbright scholars conference- **Houston, Texas USA- Oct. 24th _27th, 2001.**
- International conference in Biotechnology at **Fort Collins USA,-Feb. 2nd-7th, 2002.**
- Fulbright scholars conference, **Washington DC. 2nd-6th April 2002.**
- Regional seminar in microbiology-**April 2001.**
- National seminar in Applied microbiology- **April- 1999.**
- National conference on higher Education **April 17th-20th 2000.**
- African women conference on HIV/AIDS, **June 15th-20th 2001.**
- Seminar on successful product development and marketing, **Manchester Metropolitan University, UK,-June 10th-20th 1997.**
- Seminar on 2nd MSDN sponsored by Bioinformatics at the **National Museum of Kenya, Dec.14th-15th 1995.**
- Seminar on “managing people” organized by **Ashridge Management college, UK. August 5th-9th, 1988.**
- African Regional Organization for Standardization (RSO) **Oct .and Nov. 1985.**
- FAO/WHO Seminar on Food contamination. **Feb.1985.**
- Seminar on company Standardization, **Oct. and Nov 1982.**
- Standardization and quality control of industrial products, **July 10th- 14th, 1982, Mombasa, Kenya**

NATIONAL APPOINTMENTS

- Appointed to the **Task Force on alignment of Education to the Kenyan Constitution and Vision 2030, 2016**
- Appointed and Gazetted by the Cabinete secretary, Education on the **Appeals**
- **Board for the National Biosafety Board (NBA), 2014**
- Appointed **National Chairman** for Drafting the National Biosafety ACT 2013
- Head of Drafting the National Program on **Occupational Safety and Health (2012)** (Appointed by DOSH)
- Appointment as **National Coordinator** for training Herbalists in Kenya on Conservation and field management of Medicinal plants- **A Kenya Government and World Bank Project 2010-2013**
- **Chief Executive officer** of the African Biosafety Association (AfBSA) Feb. 2010 to date
- Appointment to serve on the **National advisory panel** to develop Mombasa polytechnic to University status (**Ministrial appointment- Oct. 2006**)

- **Chairman of BOG for Ebusakami secondary school in Vihiga, District 2006 to date**
- **National chairman-Alliance for prudent use of antibiotics (APUA)-March 2004.**
- **Executive committee member** of the National Council of Science and technology (**Ministerial appointment**) Aug.14th1997
- **Executive committee member (BOG)- Milimani Boys High school (State House-Ministrial appointment).**
- **National secretary** to the Kenya Society of Microbiology (KSM).
- Member of KU primary school PTA committee and chairman of the sub-committee on discipline.

RESPONSIBILITY AT THE UNIVERSITY

- **Acting DVC (Academic) January 2016**
- **Dean (Graduate School-2011-2016)**
- Chairman: Promotions and appraisal committee (PAC) Non-Teaching Staff
- **Chairman of the Faculty Board** of Undergraduate studies-**1995-2002**
- Member of the **University committee to Establish Pwani University** and write course curricula to be taught at the University
- Member of the Board for Centre of Research
- Member of the committee to establish the making of power alcohol by using sorghum produced in arid areas of Kenya
- Member of the committee for the establishment of a medical school at Kenyatta University
- Member of Curriculum development for the school of pharmacy
- Member and Chairman of the committee for the establishment of the Centre for Natural product Research
- Director of the AIDS CONTROL UNIT (ACU)-5 Months
- Member of students disciplinary committee
- Member of committee for the IPR establishment
- Member of the University Board for ICT establishment
- Member of the University committee for HIV/AIDS curriculum development

FACULTY RESPONSIBILITIES

- Secretary for the Faculty of Science biomedicine research proposal writing.
- Chairman , Board of Undergraduate studies(School of pure and applied sciences)
- Member of Faculty Board of Income Generation.
- Faculty of Science Students Advisor.
- Member of the school Board for the structuring of the science Workshop

DEPARTMENTAL RESPONSIBILITIES

- Departmental Head of microbiology section
- Departmental postgraduate students advisor
- Secretary Departmental Advisory committee
- Chairman conference publication committee
- Departmental advisor to 1st year students.
- Departmental advisor to 4th year students
- Chairman Botany Dept. Board of Undergraduate Studies.
- **Acting Departmental Chairman** (Four times, when Prof. Newton was on leave, Prof. Muthuri, Dr. Aloo-Obudho and Dr. Gitonga)
- Departmental seminar co-coordinator
- Chairman of Curriculum Review Committee
- Member of Departmental Board of Postgraduate Studies.
- Member of Departmental Board of Examination Co-coordinators.
- Departmental Librarian.
- Member of Departmental Board of Income Generation.
- Chairman committee for drafting proposal on extension of Tissue culture Laboratory.
- Member of the committee on assessing teaching constraints in the Department.
- Member of the committee for Nature reserve proposal writing.
- Chairman for Review of curriculum.
- Chairman of the conference proceedings preparation committee
- Member of the Departmental Exhibition/ Publicity committee.

EXTERNAL EXAMINATION

- External examiner for Jomo Kenyatta University of Agriculture and Technology-Botany Department, Department of Microbiology
- Makerere University- Department of Geology
- External Examiner for Maseno University- Department of Zoology
- External Examiner for the University of Nairobi College of Health sciences
- External Examiner for the University of Eldoret
- External Examiner for the University of Ghana at Legon

UNDERGRADUATE PROJECT SUPERVISION

- Have successfully supervised **27 project students** at Kenyatta University
- Have supervised another **11 projects at JKUAT** in medical Microbiology

POSTGRADUATE STUDENT SUPERVISION

Completed supervision for Masters Degrees

- **Joseph Matofali-Msc.(1999)**. Intramammary infection in the one humped Kenyan camel *Camelus dromedarius* with Streptococcus species and its influence on subclinical mastitis.
- **Daniel Mungai-Msc.(1999)**. Analysis of microbial hazards of lake Victoria Nile perch (*Lates niloticus*) processing at industrial level in Kenya.
- **Ochieng Mark Ongochi Msc.(2000)**. Heavy metals: cadmium, copper, iron, lead, manganese and zinc in well water Resources in Kisumu municipality.
- **Andrew Nyerere-Msc.(2003)**. Characterization of antimicrobial resistance in salmonella enterica serovar Typhi isolates from recent outbreaks in Kenya.

- **Davis Mukwabi- Msc (2003).** Occurrence and population changes of pathogens, Salmonella and Vibrio spp.in the Nile perch and Nile tilapia at selected markets in Nairobi.
- **Perpetual Wangui Ndungu Msc. (2005).** Bacterial and Rotaviral causes of diarrhea in children under 5 years and genetic basis of antibiotic resistance.
- **Benear Apollo Obanda, Msc. (2005).** Evolutionary relationship between Trypanosome evansi and Trypanosoma brucei with respect to specific mitochondrial antigen and phenotype knockout analysis.
- **Alice A. Odundo, Msc. (2006).** Hygienic practices of the street food vendors and microbiological quality of selected cooked street vended foods in Mombasa Island.
- **Lilly W. Gathu, Msc. (2006).** Antimicrobial activity of selected medicinal plants from central province
- **Josephine M. Ngari, Msc. (2006).** A study on the efficacy of Nakuru Town sewage treatment works..
- **Monica A. Wandolo, Msc. (2007).** Food safety and Hygienic practices in the informal food outlets: A case study of food Kiosks in Kibera slums, Nairobi.
- **Davis Asanga, Msc. (2007).** Evaluating plants used traditionally for the control of Fungal diseases for use as pesticides.
- **Margaret Githiri, Msc.(2007).** Food handling practices at Kenyatta National Hospital, Nairobi Kenya: A study of *Salmonella*, *Escherichia coli* and Staphylococcus food poisoning.
- **Raphael Mathaka, Msc. (2007).** Antibiotic resistance arising from stressed environments- A comparison of Githurai clinics and Nairobi Hospital
 - **Wesonga Stephen, Msc. (2007).** Examination of antibiotic resistance arising from the use of prophylactic antibiotics in chicken feed.
- **Wenslaus Makhatsa Luvonga. Msc. (2008)** Evaluation of antimicrobial activity of some plants used by traditional healers in Kakamega District for treatment of microbial infections..
- **Enock Bichanga Amboga Msc.(2008)** Anti-mycobacterial efficacy of selected medicinal plants used by herbal Doctors in Kisii to treat respiratory infections.
- **Ernest Kiprono Ruttoh Msc (2008).** Anti-microbial efficacy of selected plants used by traditional medical practitioners in Keiyo District, Kenya.
- **Adelaide Ayoyi Ogutu Msc.(2009).** Detection of antibiotic resistant and virulent factors in *Escherichia coli* from broiler chicken at Tigoni processing plant in Limuru, Kenya.

- **Sifuna Anthony Wawire Msc. (2009).** Microbiological quality and safety of *Rastrineobola argentea* (Omena) sold on Kisumu town markets, Kenya
- **Njue Lucy Gicuku Msc. (2009).** Efficacy of onion (*Allium cepa* L.) and garlic (*Allium sativum* L.) Juice as meat preservatives.
- **Kimando,J. Maina Msc. (2008).** Resistance to Antibiotics in Urinopathogenic Bacteria Isolated in patients attending Kenyatta University clinic
- **Theddeus Muange Kiswii (2009).** Incidence of *Aspergillus flavus* and aflatoxin levels in Maize in Eastern Kenya and efficacy of Plant extracts against the fungus.
- **Omor Eric Omwenga (2009).** The efficacy of selected medicinal plants used to treat diarrhoeal diseases by the Samburu community.
- **Mutuku Christopher Sikuku Msc (2010).** Association of metal tolerance with multiple antibiotic resistance in bacteria isolated from wetlands of Lake Victoria basin_ Kenya.
- **Jeophita June Mwajuma Msc. (2010).** Bacteriological quality of water and antimicrobial susceptibility of pathogenic isolates from selected water sources in Samburu South community.
- **Jacinta Emacar Msc. (2010).**Antibiotic susceptibility and genotypes of *Escherichia coli* isolated from HIV sero-positive adults at Mbagathi District Hospital- Nairobi
- **Kirui Kibii Julius (Msc.) (2010).** Efficacy of common medicinal plants used by Samburu community to treat waterborne diarrheal diseases.
- **Judith Inoti (Msc.) (2010).** Assessment of Microbial and Chemical Safety of selected Urban-grown vegetables: A Case of Thika Municipality.
- **Richard Mariita Mongare Msc. (2010).** Efficacy of medicinal plants used for treatment of Tuberculosis by communities around the Lake Victoria Region and Samburu District against *Mycobacterium* and *candida* spp.
- **Khayota Grace Tago Reg. I56/CE/15668/05; (2012)** Prevalence of HSV-2, syphilis and Hepatitis B in HIV-1 individuals in selected Health facilities in Nairobi, Kenya
- **Sila Onesmus Nzunga' Reg. I56/1472/2007 (2011)** Physico-chemical and Bacteriological Quality of selected water sources in Kithimani area, Yatta District, and efficacy of common water treatment methods
- **Henry Omondi Samson Reg. No N50/13388/2009; (2011)** Conservation of indigenous Medicinal plants among the Samburu Pastoral community in Kenya.
- **Mutsami Anne Naliaka Reg. No i56/CE/15622/2005 (2011).** A comparative study of antibiotic Resistance profile among enteric bacteria in broilers and traditional chicken from selected farms in Kericho, Kenya
- **Dominic Menge Shane Nyasetia. (2011)** Antifungal activity of selected crude plant extracts on bean rust (*Uromyces appendiculatus*) and their effects on physiological activities of French beans
- **Edson K. Kemoi (2012).** Isolation and characterization of Yeasts from *Gallus gallus* Droppings in Kabigeriet village, Olenguruone.
- **Elizabeth K. Kago (2012).** Effects of Cabbage plant residues and chemical soil fumigation on Bacterial wilt caused by soil-Borne *Ralstonia solanacearum*

- **Josephine Odhiambo Anyango (2012).** Isolation and identification of Pathogenic and spoilage Bacteria and Fungi found in preserved Crustaceans and Fish sold in Mombasa, Kenya.
- Shem Joab Ochieng-Msc.- Biochemistry Dept.
- **Josephine N. Wokabi (2012).** Establishment of *in-vitro* micropropagation protocol for farmers preferred cocoyam [*Colocasia esculenta* (L) schott] and *Xanthosoma saginifolium* (L) Schott. Cultivars grown in Kenya.
- **Caroline Nyawira Wahome (2013).** Contamination levels of underground water, antimicrobial resistance patterns, plasmid profiles and chlorination efficacy in Ongata Rongai, Kajiado North County, Kenya
- **Nyamboya Rosemary Atieno (2013).** Antibioqram, metal tolerance and plasmid profiles of pathogens isolated from wastewaters and sludge of Abattoirs in Nairobi, Kenya.
- **Maureen K. Luvanda (2014).** Validation of DI-Electric Heating as a potential food safety intervention
- **Shem Joabh Ochieng (2014).** Isolation and molecular characterization of composting Bacteria from Municipal solid waste disposal sites in two Kenyan Cities, Nairobi and Kisumu
- **Jacinta Emacar (2013).** Antibiotic susceptibility and genotypes of *Escherichia coli* isolated from HIV sero-positive adults at Mbagathi District Hospital, Nairobi
- **Abuga Samwe Onyambu (2014).** Antimicrobial activity of some medicinal plants used by the Samburu Community of Northern Kenya against selected Bacterial and fungal pathogens
- **India Jacqueline (2015).** Efficacy of some Medicinal Plants used in various parts of Kenya in treating selected Bacterial and Fungal Pathogens.
- **Dennis N. Mose (2015).** Isolation, Identification and characterization of Microbial contaminants in selected Biosafety Laboratories in Kenya
- **Kogo Kipchumba Kenneth (2015).** Culturing, characterization and identification of Candidate Micro-organisms in Cattle ear, Responsible for producing volatile constituents attractive to the Brown Ear Tick

PhDs;

- **Kago K. Elizabeth (2020)** Molecular diversity of *Ralstonia solanacearum* isolated from Kenya Highlands and Lowlands and effects of selected organic and inorganic amendments
- **Lem A. Edith (2019)** HIV drug resistance profile to first line antiretroviral therapy regimen in native patients in the Northwest region (NWR) of Cameroon
- **Mwajuma June Jeophita, (2016)** Metagenomic analysis of bacterial communities in drinking water distribution systems in Mombasa County, Kenya
- **John Muriithi Mathenge, (2016)** Food Handlers perception on food safety, occurrence and characterization of Enterotoxigenic *Staphylococcus aureus* isolated from foods of animal origin in Nairobi, Kenya
- **Ogao Alfred PhD-** Biochemistry Dept. (2013)
- **Amuka Omari Reg. I84/7069/2003; (2012)** Efficacy of medicinal plants used by the Ogiek community against Microbial related conditions.
- **Silas Kiruki, Egerton University (2011);** Molecular characterization of Enteropathogenic Bacteria and Protozoa in River Njoro and Nakuru Municipal waters and their Drug Resistance Levels

Current supervision at various stages of completion.

- Fidensio K. Ndegwa- PhD-Pharmacy Dept

- Mutsami Anne Naliaka-Msc.- Botany Dept
- Samwel Abuga Onyambu- Msc.-Botany Dept..
 - Dominic Menge-Msc. Botany Dept. JKUAT
 - Ndungu Duncan K. Msc. PMS Dept.
 - Jack Masinde Wasike Msc. PMS Dept
 - Jacklyne India Msc. PMS Dept
 - Mulaa Mary Kanini Msc. PMS Dept.

EXAMINATION OF THESES FROM OTHER UNIVERSITIES

Have examined most of the thesis for my students since I have been the first supervisor for most of them. In some cases I have been the only supervisor. In addition I have examined many from other Universities including the following:

University of Nairobi College of Health Sciences

- **Dr. Peter Ndirangu Karimi** (Msc.Medical microbiology)-Etiology and risk factors of bacterial wound infection.
- **Dr. Salinah Jeptoo Rono** (Msc. Medical microbiology)- Bacteriological quality of drinking water supplies: A comparative study of Eldoret and Kitale

Makerere University, Uganda

- **Musisi Lubowa Nathan** (Msc. Molecular Biology and Biotechnology)- Multiple drug resistance determinants in sediment-based *E. coli* of wetlands in Northern shores of Lake Victoria and their transferability in association with heavy metals
- **Nadunga Irene** (Msc. Environment and Natural Resource). The Ethnobotany and Conservation Status of Herbal Medicinal plants used to treat Zoonotic Diseases in Mabira Forest Reserve

Jomo Kenyatta University of Agriculture and Biotechnology

- **Andrew Nyerere Kimanga (PhD Microbiology)**- Prevalence of *Helicobacter pylori* infection, the virulence Genotypes and Host immunological Responses in Disease Outcomes among Kenyan Dyspeptic patients
- **Hellen Adhiambo Ogot** (Msc. Microbiology)-Isolation characterization and identification of pesticide degrading Bacteria from soil and intestinal tract of termites from around Juja town in Thika District.
- **Romano Muturi** (Msc. Microbial physiology)- Isolation of bacteria from the gut of termites and determination of their fermentation products
- **Andrew K. Nyerere** (Msc. Medical microbiology)- Antimicrobial resistance patterns and transfer of resistance genes within and outside the species.
- **Akenga Jacqueline Ongachi** (Msc. Medical Microbiology)- Screening of selected antidiarrhea medicinal plants for In-vitro antimicrobial activity against Enterobactriaceae from clinical and environmental sources.
- **Harriette E. Sande** (Msc.Institute of Tropical medicine)- Mapping *Trichomonas vaginalis* among women living in Kisumu, Kenya.
- **Lango Marcella Owuor** (Msc.Medical microbiology)- Molecular characterization of Antibiotic Resistance in non-typhi *Salmonella* from Adults with bacteraemia admitted at the Aga Khan University Hospital

- **Julius Kinuthia Mwangi** (Msc.- Biotechnology)- Enrichment and isolation of dichlorodiphenyl trichloroethane, DDT, microbial degraders from uncontaminated tropical soils.
- **Fred O. Orina (Msc-Medical Microbiology)**-Effects of Temperature and Media On Preservation and Recovery Of *Mycobacterium tuberculosis* Strains
- **Regina Mongana Ntabo (Msc. Microbiology)**- Influence of culture media and incubation conditions on the pollution of cultivable microorganisms in soils and termite guts and isolation of antibiotic and enzyme producing strains.
- **Salome O. Gitari (Msc.Public Health)**-Aetiology and antimicrobial susceptibility patterns of bloody diarrhea at Tabitha Medical Clinic in Kibera, Kenya.
- **Victoria Dinda (Msc. Public Health)**-Surveillance of surgical site infections at the Aga Khan University Hospital, Nairobi, Kenya.
- **Sheila konga Emmanuel (Msc.)**. Prevalence and associated factors for syphilis in pregnant women in Juba, Southern Sudan.
- **Robert Onsare Sanaya(Msc.)** Plasmid and integron analysis of multi-drug resistant strains of non-typhoid Salmonella isolated from patients in Nairobi Kenya
- **Victor Oduor Omballa (Msc.)**. Incidence and subtype of human metapneumovirus among selected rural and urban populations of Kenya, 2006-2009
- **Ndegwa, Doris Wangari (Msc)**. Characterization of Aminoglycoside resistant strains of Escherichia, Klebsiella, Pseudomonas and Acinetobacter implicated in invasive infections in Nairobi, Kenya
- **Moses Mucugi Njire (Msc.)**. Antimicrobial effects of selected herbal extracts on multi-drug resistant Gram-negative bacteria
- **Ahenda Petronella Achieng (Msc.)** Prevalence and Epidemiology of Enteric viruses in children attending Lwak Mission Hospital, Western Kenya
- **Nerry Jephircher Kittur (Msc.)**. Factors Associated with uptake of voluntary counseling and HIV testing among pregnant women attending antenatal clinic at Kenyatta National Hospital, Kenya
- **Muhonja N. Christabel (Msc.)**. Characterisation of antibiotic Resistance among environmental enteric pathogens in Gatwekere village of Kibera Slum-Kenya.
- **Eliud Nalinya Wafula (Msc.)**. Molecular and culture-based analyses of soil bacteria in Ngare Tea catchment area of Murang'a County, Kenya.
- **Caroline Mbogori (Msc.)**. Detection and characterization of methicillin resistant *S. aureus* from toilets and classroom door handlers in selected secondary Schools in Nairobi County Kenya.

Maseno University

- **Sarah Awuor Wandili (Msc)**. Phenotypic and Genotypic Characterization of Salmonella Isolated from *Oreochromis niloticus* (Nile Tilapia) along Lake Victoria in Western Kenya.
- **Elizabeth Ockeyo Otieno (Msc. Hospitality and tourism)**- Post harvest fish quality safety and socio economic conditions of small scale traders in Kisumu City.
- **Scolastica Auma (PhD. Zoology)**.-Pollution in Lake Victoria and determination of effects of pollutants on the microbial flora of the lake and the dynamics of gene transfer and resistance in the wetlands of the Lake region

University of Eldoret

- **Lydia Nyamuamu** (PhD. Biological Sciences)- *In vitro* and *in vivo* antiamoebic activity, citotoxicity, phytochemical screening and acute toxicity of *Senna dydymobotria (fresen)* Irwin crude extract

University of Ghana at Legon

- **Maame Ekua Akowa- (Mphil)** – Molecular characterization of Group A Rotaviruses in Farm Animals

PhD Thesis examined at Kenyatta University:

- **Tom K. O. Olielo (PhD)** –Nutrition and Dietetics)- Availability, Nutritional quality and safety of processed fruit products in Nairobi, Kenya.
- **John Muthini Maingi (PhD-** Plant and microbial Sciences)- Nitrogen fixation in promiscuous soybean (*Glycine Max (L.)* varieties in Eastern Kenya.
- **Bonventure Wachekone Juma (PhD)** Molecular Epidemiology of Enterotoxigenic *Escherichia coli* and other Enteric pathogenic Bacteria isolated in Machakos District Hospital, Machakos County, Kenya
- **Amuka Omari (PhD)-** Plants of the Ogiek community and their anti- microbial efficacy

Review of external journals

- Journal of Applied Science and Technology
- East African Medical Journal
- Journal of Tropical Microbiology and Biotechnology
- African journal of Environmental studies and Human Sciences (AJESHS)

PUBLICATIONS IN INTERNATIONAL JOURNALS

1. Kago E. K. Kinyua M., Maingi J.M. **Okemo P. O. (2020)**.Greenhouse soil amendments on Bacterial wilt incidence, Growth and yields of selected solanaceous crops. *Journal of Agriculture and Ecology Research International. (Paper under review)*
2. Kago E. K. Kinyua M., Maingi J.M. **Okemo P. O. (2020)**. Kago E. K. Kinyua M., Maingi J.M. **Okemo P. O. (2020)**. Effect of field treatment with selected soil amendments on bacterial wilt incidences in Tomatoes, Capsicum and Potatoes. *Journal of Experimental Agriculture International (Accepted, going through correction)*
3. Kago E. K. Kinyua M., Maingi J.M. **Okemo P. O. (2020)**. Control of *Ralstonia solanacearum* on selected solanaceous crops in the Greehouse by selected soil amendment Techniques. *International Journal of Recent Research in Science (Paper accepted)*

4. Kago E. K. Kinyua M., Maingi J.M. **Okemo P. O.** (2020). D.N.A. analysis of *Ralstonia solanacearum* based on 270-bp-amplified fragment from the Lowlands and Highlands of Kenya . *World Journal of Research and Review (Accepted)*
6. D.M. Mukwabi, **P.O.Okemo**, S.A. Otieno, R.O.Oduor, Z.W.Okwany (2019). Antibiotic Resistant pathogenic Bacteria isolated from aquaculture systems in Bungoma County, Kenya. *Journal of Applied and Environmental Microbiology 7 (1) : 25-37*
7. D.M. Mukwabi, **P.O. Okemo**, S.O. Otieno, R.O.Oduor, and C.M Macharia (2019). Temperature and pH influence on bacterial pathogens infecting farmed Nile tilapia in aquaculture systems in Bungoma County, Kenya. *International Journal of Fisheries and Aquatic studies 7(1): 190-197*
8. D.M.Mukwabi, S.O. Otieno **P.O. Okemo**, R.O. Oduor and B. Agwanda (2019). Parasites infecting Nile tilapia grown in aquaculture systems in Kenya. *Livestock Research for Rural Development 31(2) 132-143*
9. Lem E. A. Nyamache A. K. Fokunang C. Judith T. Irene D and **Okemo P.O** (2019). Risk factors of severe hepatotoxicity among HIV-1 patients initiated on highly active antiretroviral therapy in the northwest region of Cameroon (PO 8190). *British Medical Journal of Global Health 4 (Sppl. 3): A21.3-A22.*
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11. Lem E. A. Nyamache K.A, Fokunang C. Torimiro J.N **Okemo P.O.** (2018). Cytokines associated with antiretroviral induced hepatotoxicity in people infected with the human immunodeficiency virus type 1 in the Northwest region of Cameroon. *Immunology Research (14)001-015.*
12. Lem E. A, Nyamache A.K, Fokunang C, **Okemo. P.o,** (2018). Hepatotoxicity and related Risk Factors of severe Hepototocicity among HIV-1 infected individuals initiated on highly active antiretroviral therapy (HAART) in Cameroon. *Journal of Gastrointestinal & digestive System, ISSN: 2161-069X 8:38*
13. Dennis N.M., Omwoyo O, Mgtutu J A. and **Okemo P.** (2018). Sources of Microbial contaminants in Biosafety Laboratories I Kenya. *Journal of Advances in Biology and Biotechnology 17(2): 1-11, 2018*

14. Muthoni K. P., Njoroge S. Kiiru J. **Okemo P.** Kariuki S., (2017). Trends in Antibiotic Resistance of *Vibrio cholera* isolates in Kenya (2006-2015). *International Journal of Recent Research in Science*. 4(2): 33-37
15. E.K.Kago, Z.m.Kinyua, J.M. Maingi and **P.O. Okemo** (2017). Diversity of *Ralstonia solanaceum* strains in Solanaceous Crops Production Regions of Central Kenya. *Journal of Experimental Agriculture International* 16(1) 2017.
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22. Theddeus M. Kiswii, Ethel O. Monda, **Paul Okemo**, Christine Bii and E. Alakonya (2014). Efficacy of selected medicinal plants from Eastern Kenya against *Aspergillus flavus*. *Journal of plant Science*, 2014,2(5): 226-231
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34. Nyamboya R. A. **Okemo P.O**, Ombori O. (2013). Antibiotic Resistance of Fecael Bacterial indicators and pathogens isolated from sludge and wastewaters of Abottoirs in Nairobi, Kenya. **Journal of Biology 1(5)**
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37. Nyamboya Rosemary Atieno, **Okemo Paul Owuor**, and Ombori Omwoyo (2013). Heavy metal and associated antibiotic resistance of fecal coliforms, fecal streptococii and pathogens isolated from wastewaters of abattoirs in Nairobi, Kenya. **Journal of Applied Biosciences 64:4858-4866**
38. Margaret Githiri, Judith Kimiywe and **Paul Okemo** (2013). Knowledge in food hygiene and hygienic practices differ-in food handlers at a hospital in Nairobi, Kenya. **African Journal of food Science and Technology 4(1):19-24.**
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40. Omwenga E.O, **Okemo P.O**, and Mbugua P.K. (2012). *In- Vtro* antimicrobial and preliminary Phytochemical sceening of some Samburu Anti-diarrhoeal medicinal plants-Kenya. **South Asian Journal of Experimental Biology, 2(5): 217-226**
41. Joseph J. Magadula, Joseph N. Otieno, Ramadhani S. Nondoi, Claude Kirimuhuzya, E. Kadukuli, John A. Orodho and **Paul Okemo** (2012). Anti-Mycobacterial and Toxicity Activities of some priority medicinal plants from Lake Victoria Basin, Tanzania. **European Journal of Medicinal Plants 2(2): 125-13**
42. Eric Omwenga Ogol Calistus Paul Mbugua and **Paul Okemo**, (2012). Ethnobotanical identification and anti-microbial Evaluation of some anti-diarrhoeal plants used by the Samburu Community, Kenya, 8(2): 68-74. **Malaysian Journal of Microbiology**
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44. Kirimuhuzya C., Bunalema L., Waako P., Tabuti J., Orodho J., Magadula J., Otieno N., **Okemo P.**, (2012). Efficacy of *Cryptolepis sanguinolenta* root extract on slow-growing rifampicin resistant *Mycobacterium tuberculosis*. **Journal of Medicinal Plant Research** 6 (7): 1140-1146.
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47. Bunalema L., Kirimuhuzya C., Tabuti J., Waako P., Magadula J., Otieno N., Orodho J., **Okemo P.** (2011). The efficacy of the crude root bark extracts of *Erythrina abyssinica* on Rifampicin *Mycobacterium tuberculosis*. **African Health Sciences** 2 (4): 587-593.
48. Ngari , J. M. K. Kotut., and **P. Okemo** (2011). Threat to wildlife posed by enteric pathogens from Nakuru sewage treatment plant.. **African Journal of Health Sciences** 18(1-2): 85-95)
49. Marita R. M., Orodho, J. A, **Okemo, P. O.** Kirimuhuzya C. Otieno J. N. And Magadula J. J. (2011). Methanolic extracts of Aloe secundiflora Engl. Inhibits in-vitro growth of tuberculosis and diarrhea-causing bacteria. **Pharmacognosy Research**. 3(2):100-104
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57. Marita R. M, C. K. P. Ogol, N. O. Oguge and **P. O. Okemo** (2010). Methanol Extracts of three Medicinal plants in Northern Kenya show significant Antimycobacterial and Antifungal properties. **Research Journal of Medicinal Plants. 5(1): 54-64**
58. Jacinta Emacar, **Okemo P.** Gatheri G, and Kariuki S. (2010). Antibiotic resistance patterns of Escherichia coli isolated from HIV-sero positive adults at Mbangathi District Hospital, Nairobi, Kenya **Journal of Applied Biosciences. 27: 1705-1714.**
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- associated with meat. **Journal of Tropical Microbiology and Biotechnology**, **5: 8-13**
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84. Oguge, N. Ndungu, D. **Okemo, P. (1997).** Effects of Neem plant (*Azadiratcha indica juss, Meliaceae*) on maize grain consumption by three common pests in Kenya. *Belgium Journal of Zoology*, 127:129-135.

85. **Okemo, P.**, Fabry W, Wanjiru, M. Chhabra, S. C. and Ansorg, R. (1996). Susceptibility of *Helicobacter pylori* and *Candida spp.* to the East African plant, *Terminalia spinosa*. *European Journal of Drug Research*, 46(1).5:539-540.
86. **Okemo p.**, Fabry, W. and Ansorg, R (1996) Fungistatic and Fungicidal activity of East African medicinal plants. *European Journal of Mycoses*, 39: 67-70.
87. **Okemo, P**, Fabry, W and Ansorg, R. (1996). Activity of East African medicinal plants against *Helicobacter pylori*. *European Journal of Chemotherapy*, 42:315-317.

SEMINARS AND WORKSHOPS ATTENDED

- World Bank training workshop for herbalists in Kenya at Nakuru Kenya for the Kericho and Bomet Herbalists, July 6-July 15, 2012
- African Workshop for establishment of Laboratory maintenance Center for Africa at **Enugu, Nigeria, June 14-18, 2012**
- IFBA and AfBSA Conference held at the **Sundon Hotel Johannesburg, South Africa**, on Biosafety and Biosecurity **April 17- 22, 2012**
- World Bank Consultant (Medicinal and aromatic Plants) – Training Rural Herbalists at **Bishop Stam Hotel Kakamega, 19th March – 25th March 2011**
- Conference on Laboratory Medicine organized by The African Society for Laboratory Medicine (ASLA)- **Hilton Hotel Addis Ababa, Ethiopia 14th March – 16th March 2011**
- World Bank Consultant (Medicinal and aromatic plants)- Workshop at **Polyview Hotel in Kisumu, 5th to 10th March 2011**
- Workshop (World Bank Consultant) Training herbalists on Conservation and field Management of Medicinal plants, **Pigmy Hotel, Maua Meru 21st-25th Feb 2011.**
- International Conference on Global Biosafety and Bio-security, "Taking action" **Power Hotel, Bangkok, Thailand, Feb 15th-17th 2011**
- Workshop (World Bank Consultant). Training herbalists on Conservation and field Management of medicinal plants, **EAST college Embu, 5th-11th Jan 2011**
- UN Workshop on "The beyond Boundaries Initiative: Development and Capacity Building in Kenya with International Security Assistance- The UN 1540, 1373 Initiative"- **Serena Hotel Nairobi, Kenya. 6th Dec. 2010**
- Biosafety/Biosecurity workshop for dealing with zoonotic pathogens at the **Azalai Hotel, Bamako, Mali. 15th Oct.-23rd Oct 2010**
- Workshop (World Bank Consultant) to train herbalists in methods for conservation and sustainable management of medicinal plants, **Machakos**

Garden Hotel 21st-23rd July 2010.

- The Asia- Pacific Biosafety Association meeting held in **Seoul, South Korea from 24th May to 1st June 2010**
- Consultative workshop organized by the American Civilian Research and Development Foundation (CRDF) in **Arlington Chicago and Washington DC from 5th to 15th May 2010**
- The 13th Annual Conference of the European Biosafety Association (EBSA) in **Ljubljana, Slovenia from 18th-26th April 2010**
- African Regional UNSCR 1540 workshop on Biosafety and Biosecurity at **UN offices in Gigiri, Nairobi- Kenya, 2nd to 4th Feb 2010 .**
- Lake Victoria Research Initiative (VicRes), annual forum at **Kenya school of monetary studies from, May 27-30, 2009 Nairobi, Kenya.**
- Biosafety and Biosecurity Awareness workshop, organized by CDC/KEMRI at the **KEMRI headquarters in Nairobi, Kenya, March 16-18, 2009.**
- VicRes donors workshop to present Research findings and to retool the proposals to be more focused on poverty alleviation and environmental restoration in the Lake Victoria Basin Nile **Resort Hotel, Jinja, Uganda 27th May-31st May 2008.**
- Lead Scientists workshop at Entebbe Uganda to discuss cluster position paper April 8th-11th 2008.
- Workshop on lead Scientists for the VicRes research pNroject in the East African region held at the **Nile Resort in Jinja, Uganda. 9th- 13 th March 2008.**
- Workshop on Medicinal plant search for indigenous knowledge and plant compound analysis, **Makerere University Uganda 11th – 14th Oct. 2007.**
- Workshop on Lead VicRes researchers at the **Nile Resort in Jinja , Uganda, 19th May- 25th May 2007**
- Workshop on the Scientists, partners and Community fellows to work out specific Research and educational mechanisms to carry out in Samburu using existing resources, held at **Bomen Hotel , Isiolo April 5th -7th 2006.**
- Conference of Stakeholders on Intellectual property Rights (IPR) held at **Hilton 3rd-4th of March 2006.Hotelfrom3**
- Workshop on the review of papers on the Millenium Development Goals (MDGs), **at Utalii on 2nd March 2006.**
- African Programme for Health Innovation –APHI KEMRI IP and Technology Transfer Management Workshop KEMRI Training Facility, **KEMRI HQ, Nairobi, Kenya. 30th January- 3rd Feb. 2006.**

- Intellectual property and Transfer of Technology (IP and TT) organized by ASARECA, at **Imperial Beach Hotel Resort in Entebbe Uganda, from 31st July-6th August 2005.**
- Kenya DAAD Scholars Association Conference on Re-Invigorating the University mandate in a globalizing environment: Challenges, obstacles and way **Forward May 26th-27th 2005.**
- Establishment of the Kenya Biological Resource Centre at the National Agricultural Research Laboratories (**KARI**) in **Nairobi Kenya, 25th-26th January 2005.**
- Attended a workshop at the Monsanto gene transformation center in **St. Louis Missouri USA ,19th-20th July 2004.**
- Attended seminar on Intellectual property Rights at **Michigan State University USA 9th –15th July 2004.**
- Lake victoria Research Initiative workshop in **Jinja Uganda- May 2004**
- Samburu conservation Research initiative (CRI) at **Sportsman Arms Hotel,Nanyuki,August 1st-3rd- 2003.**
- Strategic planning for conservation of the Samburu ecological system-**Panafric Hotel Nairobi, April 14th-16th-2003.**
- Handling and disposal of hazardous waste for a friendly environment **Fort Collins Colorado, USA, Feb.10th-15th the year 2002.**
- Fulbright scholars conference- **Houston, Texas USA- Oct. 24th _27th, 2001.**
- International conference in Biotechnology at **Fort Collins USA,-Feb. 2nd-7th,2002.**
- Fulbright scholars conference, **Washington DC. 2nd-6th April 2002.**
- Regional seminar in microbiology-**April 2001.**
- National seminar in Applied microbiology- **April- 1999.**
- National conference on higher Education **April 17th-20th 2000.**
- African women conference on HIV/AIDS, **June 15th-20th 2001.**

- Seminar on successful product development and marketing, **Manchester Metropolitan University, UK,-June 10th-20th 1997.**
- Seminar on 2nd MSDN sponsored by Bioinformatics at the **National Museum of Kenya, Dec.14th-15th 1995.**
- Seminar on “managing people” organized by **Ashridge Management college, UK. August 1988.**
- African Regional Organization for Standardization (RSO) **Oct .and Nov. 1985.**
- FAO/WHO Seminar on Food contamination. **Feb.1985.**
- Seminar on company Standardization, **Oct. and Nov 1982.**
- Standardization and quality control of industrial products.

PAPERS PRESENTED AT CONFERENCES

1. **Okemo P. (2019).** Changing status of industry driven research within academia- New opportunity, Risks and Governance 28th June 2019, Villa Rosa Kempinsky, Nairobi, Kenya
2. Lem E.A., Nyamache K.A. Fokunang C, Torimiro J.N. Djukouo L, and **Okemo P.O. (2018).** Cytokines associated with antiretroviral induced hepatotoxicity in people infected with the human immunodeficiency virus type 1 in the Northwest region of Cameroon. 34th Annual Clinical Virology Symposium, May 6th-9th in West Palm Beach, Hotel, Florida USA.
3. Lem, E. A. Nyamache A. K., Fokunang C. Judith T. Nashom E, Irene D, and **Okemo P.O (2018).** Hepatotoxicity and related Risk Factors of Severe Hepatotoxicity among HIV-1 infected individuals initiated on highly active

- antiretroviral Therapy (HAART) in Cameroon. 14th- 16th June 2018, at Grad Hyatt Incheon, South Korea.
4. Lem E.A. Nyamache A.K. Fokunang C, Judith T. Nshom E, Erene D, and **Okemo P. O. (2018)**. Risk Factors of severe Hepatotoxicity among HIV-1 patients initiated on highly antiretroviral therapy in Northwest Region of Cameroon. Ninth EDCTP Forum, September 1st-2nd, 2018, Lisbon, Portugal
 5. Lem E. A. Nyamache K. A. Fokunang C. Torimiro J, N, **Okemo P.O. (2018)**. HIV drug resistance profile to first line antiretroviral therapy regimen in native patients in the Northwest region (NWR) of Cameroon. 25th International HIV dynamic & evolution. April 22-25 at Sleeping Lady Mountain Resort Leavenworth, Washington ppg. 79
 6. **Okemo P. (2018)** Roles and responsibilities for Supervision and co—supervision of Graduate Students Kisumu Hotel- 26th April 2018
 7. **Okemo P. (2017)** Biological exposure gaps in Kenya. Can we bell the CAT? 5th oct.2017. Tunis Tunisia North Africa.
 8. **Okemo P. (2017)** Roles of University Supervisors for postgraduate stakeholders- Mt. Kenya University-Thika 16th Nov. 2017.
 9. **Okemo p. (2017)** Best practices and approaches in Supervision-Natural and Applied Sciences. Karatina University. 19th june 2017
 10. **Okemo P. (2016)** Quality Doctoral Education and supervision. Sarova Panafric Hotel, Nairobi, Sept. 26th-28th 2016
 11. **Okemo P. (2016)** Regional collaboration, partnerships and capacity building towards meeting International obligations in Biosafety. Kenya school of Monetary studies Nairobi, Kenya
 12. **Okemo P. (2015)**. Keynote Speech, “Understanding danger as we face the coming plague”. 4th Biosafety Conference in Casablanca Morocco.
 13. **Okemo P. (2014)**. Flora of economic importance to the Samburu Community. 9th Sept. 2014. University of Nairobi.
 14. **Okemo P. (2014)**. The State of Biosafety/Biosecurity in the East African Region. An International Conference on the Review of the Cartagena Protocol 1540. The Hilton Hotel Addis Ababa, Ethiopia. April. 4th-7th, 2014
 15. **P. Okemo (2013)** . Overview of African Biological Safety Association (AfBSA)-presentation at AFENET Conference United Nations Addis-Ababa Ethiopia 17th-22nd Nov. 2013

16. **P. Okemo (2013).** Personal Learning Environment for P2P PhD Supervision- Catalunya University Bcelona, Spain, 4th July 2013
17. Kago, E.K., Kinyua, Z.M, **Okemo, P.O.** and Maingi, J.M (2012). Effects of Brassica tissue, chalinTM , Metham sodium on soil physical chemical properties and yields of selected solanaceous crops pp.24, PACN Congress on Agricultural Productivity, water and waste management, United Nations Conference Centre, **Addis Ababa, Ethiopia, 26th-27th November 2012**
18. Kago, E.K, Kinyua, Z.M, **Okemo, P.O.**, and Maingi, J.M, (2012). Management of Bacterial wilt (*Ralstonia solanacearum*) of selected solanaceous crop species using organic and inorganic pesticides, 101, 13th KARI Bioennial Scientific Conference, Kaptagat Road Loresho, Nairobi, **22nd to 26th October 2012.**
19. Okemo P. (2012). “The State of Present day Research Laboratories in Africa” presented at **Enugu, Nigeria, June 14-18, 201**
20. **Okemo P. (2010)** Biosafety/Biosecurity for dealing with zoonotic pathogens in Work places and Research Laboratories , **Azalai Hotel, Bamako, Mali. 15th Oct.-23rd Oct**
21. **Okemo P.** (2009). Issues of indigenous knowledge and Intellectual property Rights- sponsored by Institute of policy Analysis and Research (IPAR), PanAfric Hotel, Nairobi, Kenya. 30th Nov. 2009.
22. Mutwiri S.P. **Okemo P. O.** and Makobe M. N. (2007). Comparison of Antibiotic resistance patterns in enteric pathogens due to heavy metal pollution in the wetlands of Lake Victoria. Proceedings of JKUAT Scientific Technological and Industrialization Conference Nairobi, Kenya, 25th-26th October 2007 pp.234-253.
23. Olila **D.** Orwa J. **Okemo P. O.**, Ondigi A, Imbuga, M, Owuor, B, (2007).Indigenous knowledge and determination of efficacy in the lake Victoria Wetland basi..Proceedings of the 4th VicRes Annual conference held at the Jinja Nile Resort, Jinja, Uganda. 22nd To 25th May 2007. pp. 52-87.
24. **Okemo P. O.** (2005). Research: The elusive scorecard and the way Forward. DAAD scholars conference on Re-invigorating the University mandate in a Globalising Environment: Challenges,obstercles and way Forward. Nairobi, Kenya 26th-27th May 2005.

25. Obanda B. A, Inoue N. **Okemo, P. O.** Kabiru E. Pelle R. (2004). RNA editing ligase MP48 and MP52 genes as a chemotherapy target for drug development in diseases caused by *Trypanosoma evansi* and *Trypanosoma brucei*.. The 25th International Health Science conference, Intecontinantal Hotel Nairobi, Kenya 3rd-8th Oct. 2004.
26. **Okemo, P.** (2004). Heavy metals pollution induced antibiotic resistance in the Lake Victoria Wetlands. The 25th International Health science conference, International Hotel Nairobi , Kenya. 3rd-8th Oct. 2004.
27. Asanga D. O. Monda E. **Okemo P. O.** (2004).Efficacy of selected plant extracts against *Uromyces appendiculatus* var *appendiculatus*(per unger) on French beans (*Phaseolus vulgaris* L). 2nd Regional microbiology conference held at the kenya school of monetary studies Nairabi Kenya. 16th-19th March 2004. Pp21.
28. Asanga D. O. Monda E. **Okemo P. O.** (2004).Efficacy of selected plant extracts against *Uromyces appendiculatus* var *appendiculatus*(per unger) on French beans (*Phaseolus vulgaris* L). 2nd Regional microbiology conference held at the kenya school of monetary studies Nairabi Kenya. 16th-19th March 2004. Pp21.
29. Ngari J. **Okemo P** Kotut K. (2004). Presence of high fecal coliform counts and pathogenic microorganisms in final sewage effluent of the Nakuru sewage treatment plant. 2nd Regional microbiology conference held at the Kenya school of monetary studies in Kenya pp32.
30. Obanda B. A Inoue N. **Okemo P. O.** Kabiru E. W. Pelle R (2004). Evolutionary relationship between *Trypanosoma brucei* and *Trypanosoma evansi* with respect to cell differentiation life cycle,specific antigen and RNA interference.2nd Regional microbiology conference held at the Kenya school of monetary studies Nairobi, Kenya pp43.
31. Ogao A A. Muli F W, **Okemo P.O.** Ndiege I.O and Njagi E.N. (2004). Bioprospecting for antimicrobial medicinal plants in Kenya using bioassay directed methods. 2nd Regional microbiology conference held at the Kenya school of monetary studies ,Nairobi Kenya, pp68.
32. **Okemo P. O.** (2004). Rhizosecretion of plant protective compounds. Second Regional Microbiology Conference held at The Kenya School of Monetary studies Nairobi Kenya.pp.59.

33. **Okemo P. O.** (2000). HIV/AIDS and drug substance abuse in tertiary Institutions in Kenya. The National conference on higher education for Human Development in Kenya. April 17th-20th, Nairobi, Kenya.
34. **Okemo P. O.** Mwatha, E. W. (2001). Activity of *Ximenia caffra* extracts against pathogenic bacteria. Regional conference of applied microbiology April 24th-28th, Nairobi, Kenya.
35. **Okemo, P. O.** Mwatha E. W. Chhabra, S.C. (1999). Activity of some medicinal plant extracts against slow growing *Mycobacteria* . National conference of microbiology. April 17th-20th, Nairobi, Kenya.
36. **Okemo, P. O.**, Fabry, W. Ansorg, R. (1995). Activity of East African medicinal plants against Enteric pathogens, *Salmonella*, *Shigella*, and *Escherichia*. Science Congress of Natural products, Hurburge, Germany Feb. 12th-17th.(posters).

REFEREES

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