

CURRICULUM VITAE

PERSONAL DETAILS

NAME: Margaret Ng'wono Oluka

NATIONALITY: KENYAN

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ACADEMIC STATUS:

PhD in Pharmacology, University of Nairobi, (2012).
MSc. Pharmacology & Toxicology, University of Nairobi, (1996),
Bachelor of Pharmacy, University of Nairobi, (1981)

PRESENT POSITION: Senior Lecturer in Pharmacology & Toxicology,
Department of Pharmacology & Pharmacognosy,
School of Pharmacy, University of Nairobi.

ACADEMIC BACKGROUND

PhD in Pharmacology, University of Nairobi, 2012

Master of Science in Pharmacology and Toxicology (MSc, Pharmacol & Toxicol),
University of Nairobi, **1996.**

Bachelor of Pharmacy (BPharm), University of Nairobi, 1981.

Registered Pharmacist, Pharmacy and Poisons' Board, 1983.

East African Advance Certificate of Education (EAACE), Kaaga Girls High School
(1975 – 1976).

East African Certificate of Education (EACE), Ng'iya Girls High School, 1971 –
1974.

Certificate of Primary Education (CPE), Siger Primary School, 1964 – 1970.

EMPLOYMENT RECORD

Current Position: Senior Lecturer & Head of Pharmacology section, Department of Pharmacology and Pharmacognosy, School of Pharmacy, University of Nairobi.

Subjects for undergraduates:

Pharmacology & Toxicology

Subjects for Post graduates

Clinical toxicology

Pharmacogenomics

Pharmacovigilance and Pharmacoepidemiology

Molecular Pharmacology

Oct 15th 2014- to present: Senior Lecturer, department of Pharmacology and Pharmacognosy, School of Pharmacy, University of Nairobi

1996-2012: Lecturer, department of Pharmacology and Pharmacognosy, School of Pharmacy, University of Nairobi

1985-1996: Lecturer, Kenya Medical Training College.

Subjects: Pharmacology and Medicinal Chemistry.

1983-1984: Pharmacist in charge, Nyandarua District Hospital.

Duties: Administration, Drug Management, Member of District Health Management Team (DHMT), Resource person in Essential Drug Program Management Seminars

1981-1982: Pharmacist – internship:

Coast Provincial General Hospital, Edward St Rose Community Pharmacy (Mombasa), Boots Pharmaceuticals (currently BetaHealthcare), Nairobi.

ADMINISTRATIVE EXPERIENCE

1. Pharmacist in charge, Nyandarua District hospital
2. Head of Pharmacology section, Department of Pharmacology and Pharmacognosy
3. Acting chairman of department of pharmacology and Pharmacognosy
4. 4th Term Committee Chairman, School of Pharmacy

RESARCH ACTIVITIES

1. Pharmacogenomics of Drug response in African populations: Implications for drug development and clinical trials with respect to African populations.
2. Population Pharmacokinetics of Anti-retroviral drugs in African Populations.
3. Alcohol poisoning: Circumstances, Treatment modalities and Clinical outcomes.
4. Drug utilization studies: Pregnancy and lactation, Antibiotic use in hospital setting, drug use in chronic illness.

EXTERNAL COLLABORATIONS

Medicine Utilization Research in Africa (MURIA)

Drug Utilization studies and trainer in ATC/DDD methodology

African Institute for Biomedical Science and Technology (AiBST)

The UON-AiBST Laboratory for Biomedical Research. (www.aibst.com).

PhD Research collaboration, Molecular Pharmacology Laboratory, Postgraduate projects in Pharmacogenomics

Management Sciences for Health (MSH)

Training and Facilitation for Pharmacovigilance program

Preceptor Mentorship program

Pharmacy and Poisons Board (PPB)

Formulation of Guidelines and Facilitation for the Pharmacovigilance Program.

Member of Expert Committee for Drug Registration (CDR)

Ministry of Health

Member and Facilitator for the National Medicines and Therapeutic Committee.

Member of the National Antimicrobial Stewardship Advisory Committee (NASAC)

Kenyatta National Hospital

Member of the Medicines and therapeutics Committee

Technical Evaluation Committee for Tender drug samples

APPOINTMENTS AND RESPONSIBILITIES

1. College of Health Sciences, Student Mentorship Committee-**2016-**
2. Ministry of Health, Kenya, member, National Antimicrobial Stewardship Advisory Committee (NASAC) -**2015-**
3. College of Health Sciences, Library Committee- **2014 –**
4. College of Health Sciences , member, Multidisciplinary Skills Laboratory Team,– **2013 -**
5. MEDS Formulary Review Committee - **2012**
6. School of Pharmacy, 4th Term Committee Chairman, – **2012-**
7. College of Health Sciences, member, Work Environment Committee - **2012 –**
8. Management Sciences for Health (MSH), Trainer and Facilitator -2009
9. College of Health Sciences, member, College of Health Sciences Health and Safety Committee, **2008**
10. Ministry of Health, Kenya, member, National Medicines and Therapeutics Committee - **2007**
11. Kenyatta National Hospital, member, Medicines and Therapeutics Committee - **2005 to 2010**
12. INRUD-Kenya, Board member, **2005- 2015**. Presently, Vice-chairman from 2015.
13. School of Pharmacy, Vice-Chairman, Undergraduate Curriculum review Committee, **2010 - to date**
14. Pharmacy and Poisons Board, member, Committee for Drug Registration (CDR) of the **1998 to 2011**
15. Pharmaceutical Journal of Kenya , member, Editorial Board, **1997**.
16. Pharmaceutical Society of Kenya, 1996 – 1999. member, Annual Symposium Organizing Committee.

17. College of Health Sciences, member, 25th Graduation Ceremony Planning Committee, **1997**.
18. Department of Pharmacology and Pharmacognosy, School of Pharmacy, Acting Chairman, on various dates.
19. Kenyatta National Hospital, member, Technical Evaluation Committee for tender drugs.
20. Kenya medical Training College (KMTC) External Examiner, for Diploma and Higher Diploma in Pharmacy,

PUBLICATIONS

1. Seth M. Jomo , Beatrice Amugune , Kipruto A. Sinei , **Margaret Oluka** . Assessing the prevalence and severity of potential dru-drug interactions among mentally ill inpatients. *Indian Research Journal of Pharmacy and Science*; **8 331-343, 2016**.
2. Amos Massele, Johanita Burger, Norah L Katende-Kyenda, Francis Kalemeeera, Thatoyaone Kenaope, Dan Kibuule, Ogochukwu Mbachu, Mwangana Mubita, **Margaret Oluka**, Adedunni Olusanya, Bene D Anand Paramadhas, Paulina van Zyl & Brian Godman. Outcome of the first Medicines Utilization Research in Africa group meeting to promote sustainable and rational medicine use in Africa. *Expert Review of Pharmacoeconomics & Outcomes Research* **15(6), 885–888, 2015**
3. **Margaret Ngwono Oluka**, Faith Apolot Okalebo, Anastasia Nkatha Guantai, R Scott McClelland and Susan M Graham. Cytochrome P450 2B6 genetic variants are associated with plasma nevirapine levels and clinical response in HIV-1 infected Kenyan women: a prospective cohort study. *AIDS Research and Therapy* **12:10. DOI 10.1186/s12981-015-0052-0, 2015**
4. Albert N. Kaburi , **Margaret N. Oluka** , Rose J. Kosgei, Nicholas C. Mulwa, and Charles K. Maitai. Herbal remedies and other risk factors for preterm birth in rural Kenya. *African Journal of Pharmacology and Therapeutics* **Vol. 4 No. 4 Pages 135-142, 2015**
5. Jones Makori, Margaret Ambetsa, Kipruto A. Sinei, George O. Osanjo, Anastasia N. Guantai , Scott McClelland , **Margaret N. Oluka**, and Faith A. Okalebo. Patterns and Risk Factors for Alanine Aminotransferase Elevation among HIV

- Patients on Nevirapine Regimens. *African Journal of Pharmacology and Therapeutics Vol. 4 No. 2 Pages 59-66, 2015*
6. Margaret O. Ambetsa , Jones O. Makori , George O. Osanjo, **Margaret Oluka**, Charles K. Maitai , Anastasia N. Guantai, Scott McClelland, and Faith A. Okalebo . Incidence and Risk Factors of Renal Dysfunction in Patients on Nevirapine-Based Regimens at a Referral Hospital in Kenya. *African Journal of Pharmacology and Therapeutics Vol. 4 No. 2 Pages 48-58, 2015*
 7. **Margaret N. Oluka**, Alice Matimba, Faith A. Okalebo, George O. Osanjo , Anastasia N. Guantai, and Collen M. Masimirembwa. Characterization of inter-ethnic genetic variability of CYP2D6, CYP2C19, CYP2B6, NAT2 and GSTs in the Bantu and Nilotic populations of Kenya and implications for the chemotherapy of infectious diseases. *African Journal of Pharmacology and Therapeutics Vol. 3 No. 2 Pages 38-46, 2014*
 8. Marion N. Ong'ayo, George Oyamo Osanjo, **Margaret Oluka**. Determinants of Adherence to Anti-Tuberculosis Treatment among Paediatric Patients in Urban Kenya. *African Journal of Pharmacology and Therapeutics Vol. 3 No. 1 Pages 1-7, 2014*
 9. Benjamin U. Ebeshi, Oluseye O. Bolaji, **Margaret Oluka**, Vaikosen N. Edebi, Julius O. Soyinka and Anastasia Guantai. Simple Reversed-Phase High Performance Liquid Chromatographic Estimation of the Antiretroviral Agent Efavirenz from Human Plasma. *British Journal of Pharmaceutical Research 4(1): 145-157, 2014*
 10. Wata DE, Osanjo GO, **Oluka MN**, and Guantai AN. Predictors of Breast Cancer Treatment Outcomes in Kenyan Women. *African Journal of Pharmacology and Therapeutics, Vol. 2 No. 4 Pages 109-115, 2013*
 11. Okalebo FA, Ngaruiya MN, Changwony P, **Oluka MN**, Karume DW, Maloba KN. The Antinociceptive Effects of Hydrazinocurcumin. *African Journal of Pharmacology and Therapeutic, Vol. 2 No. 2 Pages 66-69, 2013*
 12. Ogola BA, **Oluka MN**, and Osanjo GO. Is it Time to Abandon Stavudine? The Safety and Tolerability of Low Dose Stavudine versus Zidovudine in Urban Kenya. *African Journal of Pharmacology and Therapeutics, Vol. 2 No. 2 38-47, 2013*
 13. **Oluka MN**. Pharmacogenetics of drug metabolizing enzymes and clinical implications in selected Kenyan populations. **PhD Thesis: University of Nairobi, Dec. 2012**

14. Karara, M.W, Okalebo,FA , **Oluka,MN**, Ombega,JN Anastasia Nkatha Guantai, Osanjo,GO. Tolerability and efficacy of stavudine 30 mg versus stavudine 40 mg in patients on combination antiretroviral therapy in Kenya. *Journal of AIDS and HIV Research Vol. 2(2) pp. 024-031, February, 2010*
15. Matimba A., **Oluka M.N.**, Ebeshi V.E., Sayi J. Bulaji O.O., Guantai A.N, and Masimirebwa C.M. Establishment of a Biobank and Pharmacogenetics Database of African Populations, *European Journal of Human Genetics, 2:1-4, April 2008*
16. **Oluka M.N.**, Matimba A. Guantai A N., Masimirebwa C.O., Pharmacogenetics of drug Metabolizing Enzymes in Kenya populations: Implications for Toxicity of Drugs and Environmental Toxicants – *Abstract in Drug Metabolism Reviews, 2007.*
17. **Oluka M.N.**, Hodgkin’s Disease in Kenya: Demographic Characteristics, Epstein -Barr virus and possible environmental etiological factors: *poster abstract in proceedings of the Third International Conference of the Pan African Environmental Mutagen Society, 1999.*
18. **Oluka MN.** Comparative bioavailability in healthy volunteers and an evaluation of some pharmaceutical characteristics of four carbamazepine tablet formulations available in Kenya. **Msc Thesis: University of Nairobi, 1996**
19. **Oluka M.N.**, Mitema S.E., Kibwage I.O., Kwasa T.O., and Kokwaro G.O. Comparative Bioavailability of four Cabamazepine Tablet Formulations on the Kenyan market in healthy human volunteers. *The East African Medical Journal, May, 1996, 323-326.*

PUBLICATIONS IN PRESS

Godman B, Tiroyakgosi C, Matome M, Desta A, Muller M, Amu F, Fadare J, Kibuule D, Madzikwa N, Mbwasia R, Naikaku E, **Oluka M**, Ogunleye O, Truter I. Medicine utilisation capabilities in Africa: current status, implications and future prospects (Submitted to ISPE, Dublin, 2016)

Godman B, Fadare J, Kibuule D, Irawati L, Mubita M, Ogunleye O, Paramadhas BDA et al. Initiatives across countries to reduce antibiotic utilization and resistance patterns; impact and implications (Accepted for publication as a chapter in Drug Resistance. Editors: Andaleeb SAJID, Gunjan ARORA and V. C. KALIA by Springer)

POST-GRADUATE STUDENT SUPERVISION

Masters Students

1. **Jennifer M Mbui:** Treatment of hypertension in adult patients at Ruiru sub-county Hospital in Kenya. **2015**
2. **Martha Were Mandale:** Analysis of individual case safety reports on adverse drug reactions to Antiretroviral therapy from spontaneous reporting database in Kenya. **2015**
3. **Kugo Chepkemboi Linet:** The vaccine pharmacovigilance system of Kenya. **2015**
4. **James Angima Angima:** The effects of CYP2B6 polymorphisms on CD4 count in HIV patients on nevirapine based regimens at Kenyatta National Hospital. **2015**
5. **Imbuki Evan Aketchi:** Quality Prescribing in Type 2 Diabetes ambulatory care at Webuye Hospital, Western Kenya. **2014**
6. **Christabel Nanyama Khaemba:** Incidence and determinants of medication errors among paediatric in-patients at Kisii Level 5 Hospital. **2014**
7. **Seth Manganya Jomo:** Evaluation of potential drug –drug interactions among mentally ill patients admitted at Mathari Mental Hospital. **2014**
8. **Albert Ndwiga Kaburi:** Medication-related risk factors for preterm birth in Kitui County, Kenya. **2014**
9. **Jones Makori Obonyo:** Patterns and risk factors for alanine amino-transaminase elevations among HIV positive patients on nevirapine regimens at Kenyatta National Hospital. **2014**
10. **Ambetsa Margaret Omuronji:** Incidence and risk factors of renal dysfunction among HIV positive patients on nevirapine based regimens at Kenyatta National Hospital. **2014**
11. **David Etale Wata:** Determinants of Breast cancer Treatment outcomes at Kenyatta National Hospital. **2012**
12. **Ronald Mwende Inyangala:** A study of the quality of Ginseng containing products in Nairobi Kenya. **2012**
13. **Beatrice Adhiambo Ogola:** Comparative Tolerability and efficacy of zidovudine versus low dose stavudine in Urban Kenya. **2010**

14. **Marion Nyamokami Ongayo:** Determinants of Adherence to Anti-tuberculosis Treatment among pediatric patients in Urban Kenya. **2010**
15. **Jared Okoyo Nyakiba:** Efavirenz levels and treatment outcomes in Kenyan HIV-TB co-infected patients at Kenyatta National Hospital. **2010**
16. **Maurice Kodhiambo:** A survey of Drug Use in Pregnancy at Kenyatta National Hospital. **2010**

PhD Students

Musa Otieno Ngayu: Factors influencing efavirenz plasma levels among HIV patients responding or failing anti-retroviral therapy in Nairobi, Kenya. **PhD, 2012-on-going**

Frank N. Ndakala: Genetic analysis of adverse effects associated with antiretroviral therapy in Kenyan HIV patients. **PhD, 2013-on going**

GRANTS AND SCHOLARSHIPS

1. International AIDS Research and Training Program (IARTP) visiting Scholar at the University of Washington, Seattle, **Sept- Dec 2007**
2. African Institute of Biomedical Science and Technology (AiBST) Scholarship for laboratory Work towards PhD research (**2005 – 2007**)
3. African Institute of Biomedical Research and Technology (AiBST) Grant for sample collection for PhD Research , **2005**
4. SIDA Scholarship for MSc course in Pharmacology and Toxicology **1992-1994**
5. SIDA Grant for MSc Thesis research work **1993-1995**

REPORTS AND PRESENTATIONS

1. **Oluka M.N.,** Pharmacogenetics and Bioequivalence: The variability in drug response between populations and the case for African populations. Paper presented at the East African Bioequivalence workshop, **7th – 8th October 2008**, Addis Ababa, Ethiopia.

2. **Oluka M.N.** Medical genetics as a tool for optimization of therapeutic outcomes. Paper presented at the Pharmaceutical Society of Kenya Annual Symposium, **31st May – 3rd June 2007** at the White Sands Beach Hotel, Mombasa, Kenya.
3. **Oluka M.N.**, Matimba A., Pharmacogenetics of drug metabolizing: implications for toxicity to drugs and environmental toxicants. Paper presented at the 1st International Conference of the African Society for Drug Metabolism and Development (ASDMD), **21st -24th May 2007**, Johannesburg, South Africa..
4. **Oluka M.N.**, Hodgkin's disease in Kenya: Demographic characteristics, Epstein – Barr virus and possible environmental etiological factors: Poster presented at the PAEMS, **1st – 5th March 1999**, Harare , Zimbabwe.
5. **Oluka M.N.**, A Study on the prescribing practices of clinicians in Nyeri District. presented at the KEMRI/KETRI conference, **1990**, Nairobi, Kenya.
6. **Oluka M.N.** and Ndemo F.A., Proposal on Consumer Education in support of appropriate use of drugs. Prepared for SIDA and Ministry of Health Kenya, **1989**
7. Haveman K and **Oluka M.N.**, A drug utilization study in rural health facilities in three Districts of Kenya: An Impact Evaluation of the Essential Drugs Program sponsored by SIDA and Ministry of Health, Kenya, **1989**.
8. **Oluka M.N.** and Oduol E., A study on Knowledge, Attitude, Practices and disease perceptions that influence Health Seeking Behavior and drug use in the community. sponsored by AMREF, **1989**.
9. **Oluka M. N.** Proposal on safe disposal of expired medical products: Presented to GEF on behalf of the Kenya Women pharmacists Association (KEWOPHA), at Egerton University, Kenya **from 3rd – 8th Feb 1998**.

CONFERENCES AND SYMPOSIA

1. **Margaret Oluka** Oral presentation : Margaret Ambetsa, Charles Mulwa, Faith Okaleb and Margaret Oluka. One-day Drug Utilization Review of Prescribing Practices and Patterns at Kenyatta National Hospital Out-Patient Department. Oral presentation at the First Training workshop and symposium of MURIA Group at the University of Botswana, Gaborone, Botswana, **27 – 29 July 2015**
2. **Oluka MN**, Okalebo FA, Guantai AN, McClelland RS, Graham SM. Cytochrome P450 2B6 genetic Variants, Nevirapine plasma levels and Clinical Response in HIV-1-Infected Kenyan Women. Oral presentation at the World Congress of

Basic and Clinical Pharmacology in Cape Town, South Africa, **13th -18th July 2014.**

3. **Margaret N. Oluca.** Determination of Nevirapine Plasma Levels By High Performance Liquid Chromatographic Method. Oral presentation at the The Second International Scientific Conference of the College of Health Sciences and the Kenyatta National Hospital **19th -21st June 2013.**
4. **Oluca MN.** CYP2B6 pharmacogenetics and nevirapine clinical outcomes in HIV-1 seropositive Kenyan women receiving antiretroviral therapy. Paper presented at the annual review meeting of the University of Nairobi STD/AIDS Collaborative Group. **23rd – 27th Jan, 2012,** Mayfair Court Southern Sun, Nairobi, Kenya.
5. African Society for Drug Metabolisms and Development (ASDMD): 1st International Conference on Drug Metabolism and Development, **21st to 24th May 2007,** Johannesburg, South Africa.
6. Pharmaceutical Society of Kenya Annual Symposium, **31st May – 3rd June 2007,** White Sands Beach Hotel, Mombasa, Kenya.
7. Society for Free Radical Research – Africa 1st International Conference on Biomedical relevance of free radicals: From molecular mechanisms to Therapeutic Interventions **16th – 20th July 2000,** Kruger Park, South Africa.
8. Pan African Environmental Mutagen Society (PAEM): 3rd International conference on “Susceptibility to Environmental Mutagens: Molecular, Epidemiological and Public Health aspects” from **1st – 5th March 1999,** Harare, Zimbabwe.
9. Society for Clinical and Experimental Pharmacology in Eastern and Southern Africa (SOCEPTA): 3rd Biennial Conference from 7th - **9th December, 1998,** Panafric Hotel, Nairobi.
10. The KEMRI/KETRI scientific conference, **1990,** KEMRI Headquarters, Nairobi, Kenya

COURSES, SEMINARS AND WORKSHOPS

1. **International Workshop** on Integrative and Organ Systems Pharmacology (IOSP) African Initiative, School of Pharmacy, University of Nairobi, Kenya, **10th – 13th May 2010.**

2. **Collaborative trial:** Bioanalytical investigations training program in support of bioequivalence studies in East Africa, Supported by WHO and GTZ, **12th and 13th April, 2010** at the School of Pharmacy, University of Nairobi, Kenya.
3. **WHO Training Workshop** on dossier quality assessment at the Silver Springs Hotel on **22nd – 26th Feb, 2010, Nairobi, Kenya**
4. **WHO Training Workshop** on assessment of interchangeable multisource medicines for registration on **10th – 14th Aug, 2009, White Sands Beach Hotel, Mombasa, Kenya.**
5. **WHO Training Workshop** for Pharmaceutical manufactures and regulatory assessors of medicines on: Regulatory requirements for registration of artemisinin-based combined medicines and assessment of data submitted to regulatory authorities, **from 23rd – 27th February 2009, Kampala, Uganda**
6. **GTZ workshop on Bioequivalence** of locally manufactured products in the in East African region , **7th – 8th Oct 2008, Addis – Ababa, Ethiopia**
7. **Visiting Scholar:** In the International AIDS Research and Training Program (IARTP) at the School of Public Health and Community Medicine, University of Washington, Seattle, USA, **from 3rd Sept to 15th December 2007.**
8. **Responsible Conduct of International Research** Course (NIH) at the School of Public Health and Community Medicine, University of Washington, Seattle USA, **from 10th – 21st Sept. 2007.**
9. **Data Handling, Biostatistics and use of STATA 9** Course from held at UNITID, University of Nairobi, Kenya , **from 21st Aug – 1st September 2006,**
10. **Laboratory Animal Science** training Workshop at the department of Veterinary Anatomy and Physiology, University of Nairobi. Kenya, **from 12th – 16th June 2006.**
11. **Nucleic Acid Amplification Technology (PCR),** AiBST Intermediate Course held in Harare Zimbabwe **from 3rd to 8th September 2004**
12. **Ethics and Research** Workshop by the University of Washington and KNH-REC Nairobi, Kenya. **from 24th to 26th May 2004,**
13. **Good Laboratory Practice (GLP),** a WHO/TDR – Training Workshop held in Nairobi, Kenya **from 1st to 3rd April 2004,**

14. **Advocacy on Access, use and control of illicit drugs** in Kenya: Workshop for Health care Providers held by the UONDC Program, Nairobi, Kenya **from 24th – 25th June 2003,**
15. **Pharmacogenetics of Drug Metabolism,** AiBST Training Workshop at the PanAfric Hotel, Nairobi, Kenya **from 25th to 27th August 2003,**
16. **Drug Discovery:** Absorption, Distribution, Metabolism: and Excretion (ADME) AiBST Training Course held in Cape Town, South Africa **from 18th – 23rd August 2002,**
17. **Mothers Union** Training and Induction by the All Saints Cathedral Church, Nairobi Diocese, **2002.**
18. **Drugs and Therapeutic Committees,** International Training Course by WHO/MSH held at the Mt Kenya Safari Club, Nairobi, Kenya **from 18th to 26th October 2001,**
19. **Promoting Rational Drug use** Course Sponsored by INRUD,WHO and University of Zimbabwe held in Harare, Zimbabwe **from 26th August to 8th September, 2001.**
20. **Systematic review on appraising the evidence** workshop held in Harare, Zimbabwe **on the 4th Sept 2001**
21. **Training of Trainers workshop on Reproductive Health** Contraception for Pharmacy Personnel by PATH/MOH / PSK in Nairobi, Kenya **from 6th – 7th September 2001,.**
22. **Femiplan Contraceptives update** Course by KMA held in Nairobi Kenya **on the 16th April 2000,.**
23. **Stakeholder workshop** by GEF small grants program, sponsored by Global Environmental Facility and UNDP held at Egerton University, Kenya **from 3rd – 8th Feb 1998.**
24. **Drug Information Seminar** sponsored by USAID held at the Silver Springs Hotel, Nairobi, Kenya **from 30th Sept to 1st October 1993,**
25. **Computer application to Data Management and Planning** Course (KRES. 120 -09) at the Kenya Institute of Administration, (KIA), Nairobi Kenya, **from 1st October – 23rd Nov 1990**
26. **WHO Senior level Regional Training Course** in Epidemiology and Disease Control held in Nairobi, Kenya **from 1st August to 24th November 1989.**

27. WHO/GTZ Regional Training Course in Drug Regulation, Information and Quality Control held in Yaoundé, Republic of Cameroon. **from Jan 16th – Feb 3rd 1989**

28. Senior Management Seminar (No 79/88) at the Kenya Institute of Administration (KIA), Nairobi, Kenya **from 31 Oct. – 2nd Dec 1988**

PROFESSIONAL ASSOCIATIONS:

1. Pharmaceutical Society of Kenya (PSK).
2. Kenya Women Pharmacists Association (KEWOPHA)
3. Health Action International-Africa, (HAI- Africa)
4. The African Society for Drug Discovery and Metabolism (ASDMD)
5. The Kenya Society for Basic and Applied Pharmacology (Kesobap)
6. The International Network for Rational Use of Drugs Kenya chapter (INRUD-Kenya).
7. Medicine Utilization Research in Africa (MURIA) group

SOCIAL ASSOCIATIONS

1. Enrolled member, All Saints Cathedral Mothers Union
2. Member, Victoria Women of Faith Fellowship
3. Member , Saga Welfare Association
4. Member, Kinda Welfare Association
5. Member, the Nyanza Economic Forum
6. Member Victoria Aquaculture Ltd

REFEREES

Academic

1. **Prof. A. N. Guantai,**
Dept of Pharmacology and Pharmacognosy,
Faculty of Pharmacy,
University of Nairobi,
P.O. Box 19676,
NAIROBI.
2. **Prof. I.O Kibwage,**
Dean, Faculty of Pharmacy
University of Nairobi
P.O. Box 19676
NAIROB
3. **Dr Collen Masimirembwa,**
President and Chief Scientific Officer,
African Institute of Biomedical Research and Technology (AiBST),
Harare, Zimbabwe.

Personal

1. **Mrs. Patricia Rose Oluoch**
Technical Advisor,
HIV/AIDS programme,
Centers for Disease Control (CDC)
P.O. Box 74055,
NAIROBI
2. **Dr. Jennifer A. Orwa,**
Senior Researcher,
Centre for Traditional Medicines Research
Kenya Medical Research Institute,
NAIROBI

Signature _____

Date _____