

CURRICULUM VITAE

Dr. Kennedy Omondi Abuga, PhD

Department of Pharmaceutical Chemistry,
School of Pharmacy, University of Nairobi,
P.O. Box 19676-00202, Nairobi, Kenya.



A) Professional:

Registered pharmacist

Pharmacy specialty Pharmaceutical analysis

Pharmacy trainer - B.Pharm., Masters (MSc., M. Pharm.), PhD

B) Education:

1. **University of Nairobi (UoN), Kenya;** PhD, Pharmaceutical Chemistry, 2009.
2. **Katholieke Universiteit Leuven (KUL), Belgium;** Master of Pharmaceutical Sciences (M. Pharm.), Pharmaceutical analysis, 2000.
3. **University of Nairobi (UoN), Kenya;** Bachelor of Pharmacy (B. Pharm.), 1996.
4. **Sameta Secondary School;** Kenya Certificate Secondary Education (KCSE), 1989.
5. **Biego Primary School;** Kenya Certificate of Primary Education (KCPE), 1985.

C) Other qualifications

1. **Purdue University (USA), Kilimanjaro School of Pharmacy (Tanzania);** Postgraduate Diploma in Industrial Pharmacy, 2010

D) Career progression:

1. Senior Lecturer, Department of Pharmaceutical Chemistry, UoN, 2011.
2. Lecturer, Department of Pharmaceutical Chemistry, UoN, 2001.
3. Graduate Assistant, Department of Pharmaceutical Chemistry, UoN, 1999
4. Pharmacist-in-Charge, Midrift Pharmacy, 1998

E) Administrative responsibilities:

1. Chairman, Department of Pharmaceutical Chemistry, UoN, 2011 - Present
2. Ag Dean School of Pharmacy, UoN, 2016

F) Funded research projects

1. G.N. Thoithi, K. Chibale, G. Mugumbate, A. Yenesew, N. Maingi, P. Gathumbi, **K.O. Abuga**, B.K. Amugune and S.N. Ndwigah (2011). *Novel approaches towards identification of new anthelmintic drugs through bioprospecting*. National Council for Science and Technology. KSh. 1,500,000.

G) Honours & Fellowships:

1. Commonwealth Scholarship and Fellowship Plan (CSFP) scholarship, 2005
2. Deutscher Akademischer Austausch Dienst (DAAD) Scholarship, 2002.
3. Flemish Interuniversity Council (VLIR) scholarship, 1999
4. Certificate of Excellence, Iten Mathematics Contest (IMC), 1988 and 1989.

H) Membership of Professional Societies:

1. Pharmaceutical Society of Kenya (PSK), 2000 - Present
2. British Crystallographic Association (BCA), 2005-2006.

I) Extramural Positions:

1. Member, Board of Postgraduate Studies, University of Nairobi, 2015 - 2017.
2. Editor, East and Central African Journal Pharmaceutical Sciences, 2010-Present.
3. Member, Training and Assessment Technical Committee, Pharmacy and Poisons Board, 2009 - 2012.
4. Member, Board of Management, National Quality Control Laboratory, Kenya, 2008 - 2011.
5. Editorial Assistant, East and Central African Journal Pharmaceutical Sciences, 2003-2010.
6. Member of the Technical Committee on Tea and Coffee, Kenya Bureau of Standards, 2004-2005.

J) Conference Poster presentations:

1. **Abuga O.K.**, Cockcroft J.K., Stephenson R.A., Mwangi J.W. and Kibwage I.O. (2006) Crystal structure of (+)-cycloolivil-ethylacetate solvate. Presented at the British Crystallographic association (BCA) conference, 4th-6th April 2006, Lancaster University, United Kingdom.

K) Conference Presentations:

1. **Kenyatta National Hospital/College of Health Sciences, UoN Symposium.** A.O. Okaru, **K.O. Abuga**, F.N. Kamau and S.N. Ndwigah. HPLC Analysis of Azithromycin Suspensions and Tablets. 16th May 2014, College of Health Sciences, Nairobi, Kenya.
2. **Pharmaceutical Society of Kenya (PSK), Annual Scientific Conference.** **K.O. Abuga**, G.N. Thoithi, H.K. Chepkwony and I.O. Kibwage. Quality Performance of Drugs Analyzed at DARU and NQCL and the Evidence of Counterfeits in Kenya. 30th May ó 2nd June 2008, Sarova Whitesands, Mombasa, Kenya.
3. **Gibex-Africa conference.** G.N. Thoithi, **K.O. Abuga** and A. Yenesew. Biological activities and chemical constituents of plants used for herbal medicine in Kenya. 3rd-7th November 2008, Breakwater Lodge, Cape Town, South Africa.
4. **Cades conference Leuven.** G.N. Thoithi, **K.O. Abuga**, H.K. Chepkwony and I. O. Kibwage. Counterfeiting of drugs and the necessity of quality control systems in developing countries. February 26, 2008, Katholieke Universiteit Leuven, Belgium.

L) Training workshops (Trainee):

1. **Physikalisch-Technische Bundesanstalt/Pharm R&D Lab.** Fifth round EAC pharmaceutical PT-evaluation. 16th-17 November 2016. MUHAS, Dar es Salaam, Tanzania.
2. **University of Nairobi.** PhD Supervision training. 4th -7th May 2015, Maanzoni Lodge, Machakos, Kenya.
3. **United Nations Industrial Development Organization (UNIDO)/Purdue University Kilimanjaro School of Pharmacy/ Saint Luke Foundation.** PGD in Industrial Pharmacy. 8th -20th August 2010, 8th -19th March 2010 2nd -14th August 2009 17-29 May 2009, Kilimanjaro School of Pharmacy, Moshi, Tanzania
4. **International Network for the Availability of Scientific Publications (INASP).** Editorial and on-line peer review for African Journals editors. 4th-6th November 2009, 4th-6th October 2004, Nairobi, Kenya.
5. **UNDP/World Bank/WHO Special for Research and Training in Tropical (TDR).** Good Laboratory Practices (GLP) workshop. 24th-26th October 2007, University of Nairobi, Nairobi, Kenya.
6. **International Union of Crystallography (IUCr) Workshop.** Summer School on Basic Crystallography. 27th August ó 2nd September, Certosa di Pontignano, Siena, Italy.
7. **United Nations Office on Drugs and Crime.** Stake holders awareness workshop on precursor chemicals. , 1st-2nd December 2004, Windsor Golf Club, Nairobi, Kenya.

M) Training workshops (Trainer):

1. **University of Nairobi.** PhD Supervision training. 6th -8th June 2016, e-Learning Centre, College of Health Sciences, University of Nairobi, Kenya.
2. **Division of Malaria Control, Ministry of Public Health and Sanitation.** Malaria Case Management workshop. 22nd-27th June 2015, Pride Inn Hotel, Mombasa, Kenya.
3. **Mission for Essential Drugs and Supplies (MEDS).** Control of impurities and related substances. 20th May 2013, MEDS Centre, Nairobi, Kenya.
4. **Division of Malaria Control, Ministry of Public Health and Sanitation.** Malaria Case Management workshop. 10th-16th April 2013, Guardian Hotel, Nyamira, Kenya.
5. **Medical Sciences for Health (MSH)/National Quality Control Laboratory.** Good Manufacturing Practices (GMP) workshop. 28th-30th July 2008, 2nd-4th July 2008, 4th-5th May 2008, Nairobi, Kenya.

N) Research interests

1. Pharmaceutical analysis ó Development and validation of analytical methods.
2. Market surveillance of pharmaceutical products in the Kenyan market.
3. Phytochemistry and pharmacological activity of Kenyan medicinal plants.

O) Masters theses supervised:

1. **Ngumo P.N.** (2016). Master of Pharmacy (Pharmaceutical Analysis)
2. **Manani R.O.** (2014). Master of Pharmacy (Pharmaceutical Analysis)
3. **Gachangaga P.N.** (2014). Master of Pharmacy (Pharmaceutical Analysis)
4. **Okaru A.O.** (2013). Master of Pharmacy (Pharmaceutical Analysis)
5. **Muema S.M.** (2013). Master of Pharmacy (Pharmaceutical Analysis)
6. **Ayuma N.M.** (2013). Master of Science (Pharmacognosy and Complimentary Medicine)
7. **Inyangara R.M.** (2013). Master of Science (Pharmacognosy and Complimentary Medicine)
8. **Njaria P.M.** (2011). Master of Pharmacy (Pharmaceutical Analysis)
9. **Mbae E.G.** (2011). Master of Pharmacy (Pharmaceutical Analysis)
10. **Mwaura N.N.** (2009). Master of Pharmacy (Pharmaceutical Analysis)

P) External examinations - Postgraduate:

1. Muhimbili University of Health and Allied Sciences (2013, 2014).

Q) External examinations - Undergraduate:

1. Muhimbili University of Health and Allied Sciences (2013, 2014).

R) Publications:

1. Manani R.O., **Abuga K.O.** and Chepkwony H.K (2017). Pharmaceutical equivalence of clarithromycin oral dosage forms marketed in Nairobi County, Kenya. *Sci. Pharm.* 85(2) 20.
2. Okaru A.O., Abuga K.O., Kibwage I.O., Hauslera T., Luy B., Kuballa T., Rehmd J. and Lachenmeier D.W. (2017). Aflatoxin contamination in unrecorded beers from Kenya ó a health risk beyond ethanol. *Food Control* 79, 344-348.
3. Njuguna N.M., **Abuga K.O.**, Kamau F.N. and Thoithi G.N. (2017). A liquid chromatography method for simultaneous determination of diphenhydramine, promethazine, chlorpheniramine and ephedrine in cold-cough syrups. *Pharm. Chem. J.* 51 (2), 153-158.
4. Okaru A.O., **Abuga K.O.**, Kamau F.N., Ndwigah S.N. and Lachenmeier D.W. (2017). A robust liquid chromatographic method for confirmation of drug stability of azithromycin in bulk samples, tablets and suspensions. *Pharmaceutics* 9(1) 11.
5. Njaria P.M., **Abuga K.O.**, Kamau F.K., Chepkwony H.K. (2016). A versatile hplc method for the simultaneous determination of bromhexine, guaifenesin, ambroxol, salbutamol/terbutaline, pseudoephedrine, triprolidine, and chlorpheniramine maleate in cough/cold syrups. *Chromatographia* 79 (21), 150761514.
6. Mukungu N.A., **Abuga K.O.**, Okalebo F.O., Ingwela R.T. and Mwangi J.W. (2016). Medicinal plants used for management of malaria among the Luhya community of Kakamega East sub-County, Kenya. *J. Ethnopharmacol.* 194, 986107.
7. Muema S.M., **Abuga K.O.**, Yenesew A. and Thoithi G.N. (2014). Phytochemical and anthelmintic study of the root bark of *Teclea Trichocarpa*, Engl. (Rutaceae). *East Cent. Afr. J. Pharm. Sci.* 17, 44-47.
8. Gachangaga P.N., Amugune B.K., Ogeto J.O. and **Abuga K.O.** (2014). A liquid chromatographic method for the simultaneous determination of amlodipine, valsartan and hydrochlorothiazide in tablets. *East Cent. Afr. J. Pharm. Sci.* 17, 25-34.
9. Mukungu N.A., **Abuga K.O.**, Mungai N.N., Bosire K.O. and Karumi E.W. (2013). Isolation and structural elucidation of compounds from the non-alkaloidal extract of *Nicandra physaloides* and the antimicrobial activity of withanicandrin. *East Cent. Afr. J. Pharm. Sci.* 16, 49-53.
10. **Abuga K.O.**, Amugune B.K., Ndwigah S.N., Kamau F.N., Thoithi G.N., Ogeto J.O., Okaru A.O., Nguyo J.M., King'ondou O.K., Mugo H.N. and Kibwage I.O. (2013). Quality

- Performance of Drugs Analyzed in the Drug Analysis and Research Unit (DARU) during the Period 2006-2010. *East Cent. Afr. J. Pharm. Sci.* 16, 33-43.
11. Ongarora D.S.B., Thoithi G.N., Kamau F.N., **Abuga K.O.**, Mwangi J.W. and Kibwage I.O. (2009). Triterpenoids from the stem bark of *Blighia unijugata* Bak. (Sapindaceae). *Ethiop. Pharm. J. Sci.* 24, 71-74.
 12. Thoithi G.N., **Abuga K.O.**, Nguyo J.M., King'ondou O.K., Mukindia G.G., Mugo H.N., Ngugi J.K. and Kibwage I.O. (2008). Drug Quality Control in Kenya: Observation in the Drug Analysis and Research Unit During the period 2001-2005. *East Cent. Afr. J. Pharm. Sci.* 11, 74-81.
 13. Kuria K.A.M., **Abuga K.O.**, Masengo W., Govaerts C., Roets E., Busson R., de Witte P., Zupko I., Hoornaert G., Hoogmartens J. and Laekeman G. (2003). *In vitro* Antimalarial Activity of *Ajuga remota* Benth (Labiatae) *East Cent. Afr. J. Pharm. Sci.* 6, 26 -30.
 14. **Abuga K.O.**, Mwangiru P.M., Thoithi G.N., Nguyo J.M., Ngugi J.K., King'ondou O.K., Mugo H.M. and Kibwage I.O. (2003). Quality of antiretroviral drugs analysed in the Drug Analysis and Research Unit during 2000-2003. *East Cent. Afr. J. Pharm. Sci.* 6, 20-23.
 15. Maitai C.K., Njoroge D.K., **Abuga K.O.**, Mwaura A.M., Munenge R.W. (2002). Investigation of possible antidotal effects of activated charcoal, sodium bicarbonate, hydrogen peroxide and potassium permanganate in zinc phosphide poisoning. *East Cent. Afr. J. Pharm. Sci.* 5, 38-41.
 16. Thoithi G.N., **Abuga K. O.**, Nguyo J. M., Mukindia G.G., King'ondou, O.K., Ngugi, J.K., Kibwage I.O. (2002). Drug quality control in Kenya: Observation in Drug Analysis and Research Unit during the period 1996-2000. *East Cent. Afr. J. Pharm. Sci.* 5, 28-32.
 17. **Abuga K. O.**, Chepkwony H.K., Roets E., Hoogmartens J. (2001). A Stability-indicating HPLC method for the separation of clarithromycin and its related substances in bulk Samples. *J. Sep. Sci.* 24, 849-855.
 18. **Abuga K.O.**, Kokwaro G.O., Bosire K.O. (1998). Concomitant administration of theophylline and oxamniquine in rats: Effect on theophylline clearance. *East Cent. Afr. J. Pharm. Sci.* 1, 22-23.