



A: Personal Data

Name: Stanley Njagih Ndwigah.

Address: Department of Pharmaceutical Chemistry,
School of Pharmacy, University of Nairobi, P.O. Box 19676-00202, Nairobi.
Private Address: P.O. Box 2149-00202, Nairobi.

Telephone: +254 20 4915026 Cell +254 722 747644

Date of Birth: 20th January 1974

Sex: Male

Nationality: Kenyan

Religion: Christian

Marital status: Married

Email: snndwigah@uonbi.ac.ke; sndwigah@gmail.com or sndwigah@yahoo.com

Languages

Language	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Kiswahili	Excellent	Excellent	Excellent
Kiembu	Excellent	Excellent	Excellent

Computer Software Proficiency

Package	Proficiency
Microsoft Excel	Excellent
Microsoft word	Excellent
Microsoft power point	Excellent
R	Good

B: Occupation

1. Chairman, Department of Pharmaceutical Chemistry, University of Nairobi.
2. Senior Lecturer, Department of Pharmaceutical Chemistry
3. Supervisor and analyst, Drug Analysis and Research Unit (DARU)

I give lectures to both undergraduate and graduate pharmacy students; plus, students doing MSc in Tropical and Infectious Diseases. I lecture in medicinal chemistry, pharmaceutical analysis, epidemiology and regulatory pharmacovigilance. I also supervise undergraduate and graduate students in their research and writing of their dissertations and thesis.

I am also involved in analysis of pharmaceutical products in DARU where I work as an analyst and supervisor in analysis, working closely with technologists. In our work in DARU, we check out if the drugs in Kenyan market are of desired quality as specified in the monographs e.g. the British, the United States and the International Pharmacopoeias. I also carry out field research/market surveillance on quality, availability and pricing of medicines in Kenya.

C) Administrative responsibilities:

2017 – Present: **Chairman**, Department of Pharmaceutical Chemistry, University of Nairobi

2017 – Present: Member, College of Health Sciences Academic Board

2017 – Present: Member, University of Nairobi Senate

2017 – Present: Member, School of Pharmacy Postgraduate Studies Committee

2010 – Present: Chairman, School of Pharmacy Show and exhibition Committee

2016 – Present: Member, Departmental Postgraduate studies committee.

2017 – Present: Chairman, Departmental Postgraduate studies committee.

2007 – 2017: Industrial rotation co-ordinator, school of pharmacy

2006 – Present: **Patron**, Nairobi University Pharmacy Students Association.

Others responsibilities & Board Memberships

2019–present: Member, Training and Assessment Technical Committee (TATC) of
the Pharmacy and Poisons Board

2019–present: Member, The Kenya National Technical Working Group on Pharmacovigilance
and Post Marketing Surveillance (KTWG-PV/PMS)

2019 to date: Member of Parents Association and Member of Board of Management, St Paul's
Kevote High School, Embu County, Kenya.

2015 to date: Chairman, Member of Board of management, St Joseph the Worker, Kathuniri
Day Secondary School, Embu County, Kenya.

2006 to date: Member of Board of Management, St Angela Nguviu Girls High School, Embu County, Kenya.

2006 to 2012: Member of Board of Management, St Joseph the Worker, Kathuniri Secondary School, Embu County, Kenya.

D: Areas of Academic Interest and Research

1. Quality control of drugs
2. Isolation and characterisation of components of medicinal plants
3. Implementation Science
4. Pharmacovigilance
5. Market surveillance of medicines
6. Epidemiology & Biostatistics

E: Educational Background

2018 to date: P-HERT Scholar (Partnership for Health Research and Training in Kenya)

2018 Epidemiology & biostatistics scholar in Department of Global Health, **University of Washington**, Seattle, USA.

2013 PhD in pharmaceutical chemistry, from **University of Nairobi**.

2012 Implementation Science scholar in Department of Global Health, **University of Washington**, Seattle, USA.

2004 Master of Pharmacy Degree in Pharmaceutical Analysis, from University of Nairobi.

2000 Registered as a Pharmacist by Pharmacy and Poisons Board

1998 Graduated with a bachelor's degree in Pharmacy

1991 Kenya Certificate of Secondary Education, **Kangaru School**, P.O. Box 17, Embu

1987 Kenya Certificate of Primary of Education, **Kathuniri Pri. School**, P.O. Box 591, Embu

F: Working Experience

2017 to date: Chairman, Department of Pharmaceutical Chemistry

2014 to date: Senior lecturer, Department of Pharmaceutical Chemistry

2006 to 2014: Lecturer, Department of Pharmaceutical Chemistry, University of Nairobi.

2004 to date: Honorary consultant, Kenyatta National Hospital, Nairobi

2004 to date: Supervisor and analyst, Drug Analysis and Research Unit

- 2003 to 2006: Tutorial Fellow, Department of Pharmaceutical Chemistry
- 2002 to 2003: Hospital pharmacist, the Mater Hospital, Nairobi
- 2000: Community Pharmacist, Pharmaceutica 85' Ltd, UNIPEN House Nairobi.
- 1998 to 1999: Pharmacist Intern, Embu Provincial General Hospital, Embu.
Darol Pharmaceuticals, Am-Bank House, University Way, Nairobi.
Dawa Pharmaceuticals, Nairobi.

G: Theses Published

1. **S.N. Ndwigah**. Phytochemical, antibacterial and antifungal study of *Dombeya torrida* (J.F.Gmel) and *Hydnora abyssinica* (A. Braun). A Doctor of Philosophy (in Pharmaceutical Chemistry). Thesis, **2013**.
2. **S.N. Ndwigah**. Phytochemical investigation and anthelmintic activity of *Dombeya rotundifolia*. A Master of Pharmacy (Pharmaceutical Analysis). Thesis, **2004**.

H: Publications

- 1 J. Kiuri, S. Maru, and **S.N. Ndwigah (2020)**. Product Evaluation of Carbamazepine 200mg Controlled Release Tablets using an in vitro-in vivo Correlation Simulation Model. *The East and Central African Journal of Pharmaceutical Sciences*, **23**(2), 60-66.
- 2 J. K. Murage, B. K. Amugune, P. Njogu and **S. N. Ndwigah (2020)**. Development and application of a spectrophotometric method in quality evaluation of benzimidazole anthelmintics in Nairobi City County. *Future Journal of Pharmaceutical Sciences* **6**:74. <https://doi.org/10.1186/s43094-020-00103-4>
- 3 **Stanley N. Ndwigah (2020)**. Advocacy for pharmacy practice and pharmacy education in Kenya. In International Pharmaceutical Federation (FIP). FIP pharmacy education in sub-Saharan Africa. The Hague: International Pharmaceutical Federation; 2020. Eds, Nilhan Uzman, Alison Ekwere Williams and Ralph J. Altieri. Pg 56-57. Available at: <https://www.fip.org/file/4812>

- 4 **Stanley N. Ndwigah**, Kennedy O. Abuga, Daniella Munene and Eric Muringu (2020). Pharmacy education country profile: Kenya. *In International Pharmaceutical Federation (FIP). FIP pharmacy education in sub-Saharan Africa. The Hague: International Pharmaceutical Federation; 2020. Eds, Nilhan Uzman, Alison Ekwere Williams and Ralph J. Altieri. Pg 74-81. Available at: <https://www.fip.org/file/4812>*
- 5 **Stanley N. Ndwigah** and Dennis S. Ongarora (2020). Education trends, innovation, transformations and current drivers of the pharmacy curriculum in Kenya. *In International Pharmaceutical Federation (FIP). FIP pharmacy education in sub-Saharan Africa. The Hague: International Pharmaceutical Federation; 2020. Eds, Nilhan Uzman, Alison Ekwere Williams and Ralph J. Altieri. Pg 71-73. Available at: <https://www.fip.org/file/4812>*
- 6 **Stanley Ndwigah**, Andy Stergachis, Kennedy Abuga, Hannington Mugo, Isaac Kibwage (2019). Availability and prices of antimalarials and staffing levels in health facilities in Embu County, Kenya. *East and Central African Journal of Pharmaceutical Sciences. 22:26-34.*
- 7 **Stanley N. Ndwigah** (2019). Herbal medicines require regulation like conventional medicines. *Pharmaceutical Journal of Kenya. 24*
- 8 R. Cherogony, S. M. Maru and **S. N. Ndwigah** (2018). Pre-formulation Study on Enhancing the Solubility of Albendazole. *East and Central African Journal of Pharmaceutical Sciences. 21:10-15.*
- 9 **Stanley Ndwigah**, Andy Stergachis, Kennedy Abuga, Hannington Mugo and Isaac Kibwage (2018). The quality of anti-malarial medicines in Embu County, Kenya. *Malaria Journal 17:330. <https://doi.org/10.1186/s12936-018-2482-3>*
- 10 Vivian Rakuomi, Faith Okalebo, **Stanley Ndwigah**, Levi Mbugua (2017). Cost effectiveness of pre-referral antimalarial treatment in severe malaria among children in sub-Saharan Africa. *Cost Eff Resour Alloc. 15:14. <https://doi.org/10.1186/s12962-017-0076-5>*

- 11 J. K. Mubiu, **S.N. Ndwigah**, K.O. Abuga and D.S.B. Ongarora (2017). Antimicrobial activity of extracts and phytosterols from the root bark of *Lonchocarpus eriocalyx*. East and Central African Journal of Pharmaceutical Sciences. **20**:13-16.
- 12 Lucia Keter, Richard Too, Nicholas Mwikwabe, Charles Mutai, Jennifer Orwa, Lizzy Mwamburi, **Stanley Ndwigah**, Christine Bii, and Richard Korir (2017). Risk of Fungi Associated with Aflatoxin and Fumonisin in Medicinal Herbal Products in the Kenyan Market. *The Scientific World Journal* 2017: 1-6.
- 13 Alex O. Okaru, Kennedy O. Abuga, Franco N. Kamau, **Stanley N. Ndwigah** and Dirk W. Lachenmeier (2017). A Robust Liquid Chromatographic Method for Confirmation of Drug Stability of Azithromycin in Bulk Samples, Tablets and Suspensions. *Pharmaceutics* **9**(1):11.
- 14 Alice N. Gichobi, **Stanley N. Ndwigah**, Kipruto A. Sinei, Eric M. Guantai (2017). Clinical audit of Heparin use in Rift Valley General Hospital, Nakuru County, Kenya. *Afr. J. Pharmacol. Ther.* **6**(1): 27-37
- 15 Boniface M. Thuo, Grace N. Thoithi, Ndichu Maingi, **Stanley N. Ndwigah**, Rose N. Gitari, Rebecca W. Githinji, and Richard O. Otieno (2017) *In vitro* anthelmintic activity of *Albizia gummifera*, *Crotalaria axillaris*, *Manilkara discolor*, *Teclea trichocarpa* and *Zanthoxylum usambarense* using sheep nematodes. *Afr. J. Pharmacol. Ther.* **6**(1): 38-42.
- 16 Lucia Keter, Richard Too, Charles Mutai, Nicholas Mwikwabe, **Stanley Ndwigah**, Jennifer Orwa, Elizabeth Mwamburi and Richard Korir (2016). Bacteria contaminants and their antibiotic sensitivity from selected herbal medicinal products from Eldoret and Mombasa, Kenya. *American Journal of Microbiology.* **7** (1): 18.28.
- 17 Susan W Maina, George O Osanjo, **Stanley N Ndwigah**, Sylvia A Oponga (2016). Determinants of discontinuation of contraceptive methods among women at Kenyatta National Hospital, Kenya. *Afr. J. Pharmacol. Ther.* **5**(1), 28-34.

- 18 D. Minyeto, P. M. Njogu, **S. N. Ndwigah** and H. K. Chepkwony (2015). Quality and *in vitro* pharmaceutical equivalence of ciprofloxacin tablets brands in Kenya. *East and Central African Journal of Pharmaceutical Sciences*. **18**: 75-85.
- 19 Nicholas C. Mulwa, George O. Osanjo, **Stanley N. Ndwigah**, Albert N. Kaburi and Gichuru Muriuki (2015). Patterns of prescribing practices in Makueni County Referral Hospital, Kenya. *Afr. J. Pharmacol. Ther.* **4**(4): 161-168.
- 20 A.O. Maima, **S.N. Ndwigah**, G.N. Thoithi, F.N. Kamau and I.O. Kibwage (2014). Antimicrobial Properties of Some Medicinal Plants of the Luo Community of Kenya. *Afr. J. Pharmacol. Ther.* **3** (4), 112-115.
- 21 S.K. Kerama, F.A. Okalebo, D.G. Nyamu, E.M. Guantai, **S.N. Ndwigah** and S M. Maru (2014). Risk factors and management of stress ulcers in the critical care unit in a Kenyan referral hospital. *Afr. J. Pharmacol. Ther.* **3** (2). 51-61.
- 22 **S.N. Ndwigah**, B. K. Amugune, G. N. Thoithi, J. W. Mwangi, H. N. Mugo and I. O. Kibwage (2014). Antibacterial and antifungal study of *Dombeya torrida* (J.F. Gmel) and *Hydnora abyssinica* (A. Braun). *Afr. J. Pharmacol. Ther.* **3** (1), 14-18.
- 23 G.A. Mugendi, D.G. Nyamu, F.A. Okalebo, N.N. Nyamweya, **S.N. Ndwigah**, M Mwangi (2014). Comparison of losartan and enalapril effects on renal function in hypertensive adults with chronic kidney disease at a Kenyan Referral Hospital. *E. Afri. Med. J.* **91** (4), 125-132.
- 24 **S.N. Ndwigah**, G.N. Thoithi, J.W. Mwangi, B.K. Amugune, H.N. Mugo and I.O. Kibwage (2013). Phytosterols from *Dombeya torrida* (J. F. Gmel). *East Cent. Afr. J. Pharm. Sci.* **16**(2), 44-48.
- 25 E.W. Karumi, C.K. Maitai, F.A. Okalebo, N.N. Mungai, **S.N. Ndwigah** and N.A. Mukungu (2013). Phytochemical, Anthelmintic and Antimicrobial activity of *Hagenia abyssinica* (Bruce). *East Cent. Afr. J. Pharm. Sci.* **16**(3), 77-82.
- 26 K.O. Abuga, B.K. Amugune, **S.N. Ndwigah**, F.N. Kamau, G.N. Thoithi, J.O. Ogeto, A.O. Okaru, J.M. Nguyo, O.K. King'onde, H.N. Mugo and I.O. Kibwage (2013). Drug quality

control in Kenya: observations in the Drug Analysis and Research Unit (DARU) during the period 2006-2010. *East Cent. Afr. J. Pharm. Sci.* **16**(2), 33-43.

- 27 A.O. Maima, G.N. Thoithi, **S.N. Ndwigah**, F.N. Kamau and I.O. Kibwage. (2008). Phytosterols from the stem bark of *Combretum fragrans* F. Hoffm. *East Cent. Afr. J. Pharm. Sci.* **11**(2). 52-54.
- 28 **S.N. Ndwigah**, G.N. Thoithi, J.W. Mwangi and I.O. Kibwage. (2005). The constituents of the stem bark of *Dombeya rotundifolia*, Hochst. *East Cent. Afr. J. Pharm. Sci.* **8**(2). 40-42.

J: E-content and E-learning Modules

1. **S. N. Ndwigah** (2018). UPE 708 Regulatory pharmacovigilance. Distance learning Study module, University of Nairobi.
2. **S. N. Ndwigah** and Alex O. Okaru (2013). UPC 413: Pharmaceutical Chemistry III Module 11: *Anthelmintics*. Distance learning Study module, University of Nairobi.
3. **S. N. Ndwigah** and G. N. Thoithi (2012). UPC 213: Pharmaceutical Chemistry III Module 1: *Antifungals*. Distance learning Study module, University of Nairobi.
4. **S. N. Ndwigah** and G. N. Thoithi (2012). UPC 213: Pharmaceutical Chemistry I Module 3: *Antihistamines*. Distance learning Study module, University of Nairobi.
5. G. N. Thoithi and **S.N Ndwigah** (2013). UPC 213: Pharmaceutical Chemistry I Module 1: **Non-Steroidal Anti-inflammatory Drugs**. Distance learning Study module, University of Nairobi.
6. Alex O. Okaru and **S. N. Ndwigah** (2013). UPC 213: Pharmaceutical Chemistry I Module 4: **Prostaglandins**. Distance learning Study module, University of Nairobi.

K) Conference Presentations:

1. **S. N. Ndwigah**, A. Stergachis, K. O. Abuga and I. O. Kibwage (2016). Staffing levels, availability and pricing of antimalarial medicines among health facilities in Embu County,

Kenya. The Annual 2016 MEPI/NEPI Symposium held on 2-4th August 2016 at Laico Regency Hotel in Nairobi, Kenya.

2. A. O. Okaru, K.O. Abuga, F.N. Kamau and **S.N. Ndwigah** (2014). HPLC Analysis of Azithromycin Suspensions and Tablets. Kenyatta National Hospital/College of Health Sciences, UoN Symposium 16th May 2014, College of Health Sciences, Nairobi, Kenya.
3. I. O. Kibwage, G. N. Thoithi, K. O. Abuga, B. Amugune, K. Bosire and **S. N. Ndwigah**, Measuring drug prices in low and middle income countries. The Kenya Report. Measuring drug prices in low- and middle-income countries: The development of a methodology manual. Project meeting. Bellagio, Italy, 3rd -7th December 2001.

M: Masters Supervision

1. Stephen Makori Gichana. Determinants and management of cardiac toxicities induced by anthracycline-based regimens in adult patients with cancer at Kenyatta National Hospital. Master of Pharmacy (Clinical Pharmacy). Thesis **2020**. *Supervisors*: Dr P. Karimi, Dr. I. Weru and **Dr. S. N. Ndwigah**.
2. Johnson Kibira Murage. Development and application of a photometric method in quality evaluation of benzimidazole anthelmintics in Nairobi city county. Master of Pharmacy (Pharmaceutical Analysis). Thesis **2020**. *Supervisors*: Dr. B.K. Amugune, Dr P. M. Njogu and **Dr. S. N. Ndwigah**.
3. Kiuri Julius Ngunjiri. In vitro simulation of blood concentration-time (C-t) profile of carbamazepine tablets using IVIVC model. Master of Pharmacy (industrial pharmacy). Thesis **2019**. *Supervisors*: Dr S.M. Maru and **Dr. S. N. Ndwigah**.
4. Dr. Khadija M. Hassan. Evaluation of heavy metals and microbial contamination in herbal medicines used for chronic illnesses in Nairobi Metropolis. Master of Pharmacy (Pharmaceutical Analysis). Thesis **2019**. *Supervisors*: **Dr. S. N. Ndwigah**, Dr P. M. Njogu and Dr. N. N. Mwaura.

5. Dr. Steven N. Wachira. Assessment of the quality of sodium hypochlorite and hydrogen peroxide products in Nairobi City County. Master of Pharmacy (Pharmaceutical Analysis) ongoing. Thesis **2019: Dr. S. N. Ndwigah** and Dr. D.S.B. Ongarora.
6. Dr. Nyambane Irene Mokeira. Compliance with clinical trials with regulatory requirements for drug safety reporting in Kenya. Master of Pharmacy (Pharmacoepidemiology and Pharmacovigilance). Thesis **2018. Supervisors: Dr. S. N. Ndwigah** and Dr. G. O. Osanjo.
7. Dr. Mubiu Jediel Kiria. Antimicrobial activity and bioactive constituents of the root bark extracts of *Lonocarpus eriocalx*. Master of Pharmacy (Pharmaceutical Analysis). Thesis **2018. Supervisors: Dr. S. N. Ndwigah**, Dr. D.S.B. Ongarorora and Dr. K. O. Abuga.
8. Dr. Karim Wanga. Medicine utilization evaluation of heparin at Kenyatta National Hospital. Master of Pharmacy (Pharmacoepidemiology and Pharmacovigilance). Thesis **2018. Supervisors: Dr. S. N. Ndwigah**, Dr. K. Sinei and Dr. E. Guantai.
9. Dr. Cherongony Robert Kiplagat. Preformulation study to enhance solubility of albendazole. Master of Pharmacy (industrial pharmacy). Thesis **2017 Supervisors: Dr. S. M. Maru and Dr. S. N. Ndwigah.**
10. Dr. Wambu wangari. Evaluation of the risk management system for medicinal plants in Kenya. Master of Pharmacy (Pharmacoepidemiology and Pharmacovigilance). Thesis **2017 Supervisors: Dr. S. N. Ndwigah** Dr. G. Osanjo and Dr. K. Sinei.
11. Dr. Susan W. Maina. Determinants of discontinuation of contraceptive methods among women in KNH. Master of Pharmacy (Pharmacoepidemiology and Pharmacovigilance). Thesis **2016. Supervisors: Dr. G. O. Osanjo, Dr. Sylvia Oponga and Dr. S. N. Ndwigah.**
12. Dr. Martha Were Mandale. Analysis of individual case safety reports on adverse drug reactions to antiretroviral therapy from the spontaneous reporting database in Kenya. Master of Pharmacy (Pharmacoepidemiology and Pharmacovigilance). Thesis **2015. Supervisors: Dr. S. N. Ndwigah**, Dr. G. O. Osanjo and. Dr. M. Oluka.

13. Vivian Masiga Rakuomi. Assessment of the cost-utility of pre-referral malaria treatments in Kenyan children using decision analytic modeling. Master of Pharmacy (Pharmacoepidemiology and Pharmacovigilance). Thesis **2015**. *Supervisors:* Dr. F. A. Okalepo and **Dr. S. N. Ndwigah**.
14. Dr. Minyeto Daniel. Comparative in vitro evaluation of the bioequivalence of twenty generic ciprofloxacin hydrochloride tablets in Kenya. Master of Pharmacy (Pharmaceutical Analysis) Thesis **2014**. *Supervisors:* **Dr. S. N. Ndwigah**, Dr. P. M. Njogu and Dr. H. K. Chepkwony.
15. Dr. Imbuki Evans. Quality of prescribing in type 2 diabetes ambulatory care at Wembuye District Hospital. Master of Pharmacy (Pharmacoepidemiology and Pharmacovigilance). Thesis **2014**. *Supervisors:* Dr. M. Oluka, Dr. E. Guantai and **Dr. S. N. Ndwigah**.
16. Dr. Nicholas Mulwa. Patterns of prescribing practices in Makueni District Hospital. Master of Pharmacy (Pharmacoepidemiology and Pharmacovigilance). Thesis **2014**. *Supervisors:* Prof. G. Muriuki, Dr. G. O. Osanjo and **Dr. S. N. Ndwigah**.
17. Dr. Alex Okaru. Development and validation for a liquid chromatographic method for analysis of azithromycin. Master of Pharmacy (Pharmaceutical Analysis) Thesis **2013**. *Supervisors:* Dr. K. O. Abuga, Prof. F. N. Kamau and **Dr. S. N. Ndwigah**.
18. Dr. Esther Karumi. Phytochemical, anthelmintic and antimicrobial investigation of *hagenia abuyssinica* (Bruce) Gmelin. Master of Science in Pharmacognosy and complementary medicine Thesis **2013**. *Supervisors:* Prof. C.K. Maitai, Dr. F. A. Okalepo, Dr. N.N. Mungai and **Dr. S. N. Ndwigah**.
19. Dr. Boniface Thuo. *In vitro* anthelmintic activity of *Albizia gummifera*, *Crotolaria axillaris*, *Manilkara discolor*, *Teclea trichocarpa* and *Zanthoxylum usambarense* extracts. Master of Pharmacy (Pharmaceutical Analysis) Thesis **2013**. *Supervisors:* Prof. G. N. Thoithi, Prof. N. Maingi and **Dr. S. N. Ndwigah**.

N: Ongoing Ph. D. Supervision

1. Kellen Karimi, MPH. Contamination of groundwater sources with antibiotics in Kisumu, Kenya. Doctor of Philosophy in Public Health. *Supervisors:* Prof M.A. Mwanthi and **Dr. S. N. Ndwigah**.
2. Dr. Robert Cherogony, B. Pharm, Formulation development of Albendazole nano particles for ovarian cancer. Doctor of Philosophy in Pharmaceutics. *Supervisors* Dr. Shital. Maru, Dr. **S.N. Ndwigah** and Dr. Lucy Tirop.
3. Dr. Boniface M Thuo, M.Pharm. Phytochemical and antiproliferative activity of *Cyphostema maranguese* and *Cyathula polycephala*. Doctor of Philosophy in Pharmaceutical Chemistry. *Supervisors* **Dr. S.N. Ndwigah**, Dr. B. Amugune, Dr D. Ongarora and Dr. P.Njogu.

P: Ongoing Masters Supervision

1. Dr Lameck Gisairo. Quality of mouthwashes in Nairobi City County, Kenya. Master of Pharmacy (Pharmaceutical Analysis) ongoing. *Supervisors:* **Dr. S. N. Ndwigah**, Dr K.O. Abuga and Dr. A.O. Okaru.
2. Dr. Jane Michuki. Investigation of the quality of herbal contraceptives in Nairobi City County, Kenya. Master of Pharmacy (Pharmaceutical Analysis) ongoing. *Supervisors:* Dr. B. K. Amugune, **Dr. S. N. Ndwigah** and Dr P. M. Njogu.
3. Dr. Kefa Bota. A comparative dissolution profiling of erythromycin oral formulations in the Kenyan market. Master of Pharmacy (Pharmaceutical Analysis) ongoing. *Supervisors:* **Dr. S. N. Ndwigah** and Dr. J. O. Ogeto.
4. Abubakar Kassim Famau. Evaluation of heavy metal content in lipstick and eyeshadow products in Mombasa county and associated health risk to consumers. Master of Pharmacy (Pharmaceutical Analysis) ongoing. *Supervisors:* Dr. A.O. Okaru , Dr D. Ongarora and **Dr. S. N. Ndwigah**

Q: External thesis examined

1. Nelson Enos Masota. Assessment of pesticidal potential of extracts from selected Tanzanian indigenous mushroom species in stored grains. *Master of Science (MSc)*. Muhimbili University of Health and Allied Sciences (MUHAS), April **2017**.
2. Raphael Jonathan Shedafa. Stability indicating assay for determination of lamivudine and tenofovir in fixed dose combination formulation and selection of their packaging materials. *Master of Science by Research Dissertation*. MUHAS, July **2016**.
3. Nampenda M. Zehirwa. Comparative *in vitro* dissolution studies of selected generic essential medicines in Tanzania. *Master of Pharmacy in Quality Control & Quality Assurance Dissertation*. MUHAS July **2016**.
4. Seraphina C. Omolo. A stability indicating assay method for determination of artesunate and amodiaquine tablets using HPTLC densitometric method. *Master of Pharmacy in Quality Control & Quality Assurance Dissertation*. MUHAS, July **2016**.
5. Siya Ringo. Assessment of medicines cold chain storage conformity with WHO requirements in public health facilities in Tanzania. *Masters of Pharmacy (Quality Control and Quality Assurance) Dissertation*. MUHAS July **2016**.

R) External examiner-ships***Postgraduate:***

March 2016 to September 2018- External examiner in School of Pharmacy, Muhimbili University of Health and Allied Sciences (MUHAS), Dar es Salaam, Tanzania.

Undergraduate:

1. March 2016 to September- External examiner in School of Pharmacy, MUHAS, TZ,
2. April 2016 to August 2018- External examiner in School of Pharmacy, Catholic University of Health and Allied Sciences, Mwanza, Tanzania.
3. 2015 to 2017- External examiner in School of Pharmacy, Kenya Methodist University, Meru, Kenya.
4. 2017 to date: External examiner in School of Pharmacy, Mt Kenya University, Kenya.
5. 2008 to 2013- External examiner, Kenya Medical Training College, Nairobi, Kenya.

S: Funded Research Projects and Awards

1. 2017-2022: Developing Nano medicines. School of Pharmacy, University of Nairobi in collaboration with Africa Centre for Excellence in Materials, Product Development and Nanotechnology of School of Pharmacy, Makerere University. World Bank funded project. *PI* for Kenyan project: Dr Shital Maru Co-PI. Dr. K.O. Abuga, Role Research fellow. Ksh 25,000,000.00.
2. 2003 to date: Supervisor and analyst in Drug Analysis and Research Unit (DARU). Currently DARU generates over six (6) million shillings yearly. Its facilities and resources are used to teach students and when carrying out market surveillance.
3. 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 bio-prospecting. National Council for Science and Technology. KSh. 1,500,000.00.
4. 2012-2014: Implementation Science Fellow under Partnership for Innovative Medical Education in Kenya. Ksh 3,300,000.00.
5. 2004-2007: Deutscher Akademischer Austausch Dienst (DAAD) PhD Scholarship. Ksh 2,500,000.00.
6. 2002 (October, November): Development and pre-testing of tools for measuring access to anti-malarial medicines in Kenya. World Health Organization funded study. (Role: Researcher. Principal investigator: I. O. Kibwage).
7. 2001 (October, November): Measuring drug prices in low and middle-income countries; the Kenya Study. Health Action International and World Health Organisation co-funded study. (Role: Researcher. Principal investigator for Kenyan study: I. O. Kibwage).
8. 2000-2002: Katholischer Akademischer Ausländer-Dienst (KAAD) - Master of Pharmacy Scholarship. Ksh 500,000.00.

T: Professional Consultations/Activities

1. July 2019 to date: Member of Training and Assessment Technical Committee, **Pharmacy and Poisons Board**, Ministry of Health, Kenya.
2. 2015: Training of private health workers in **malaria case management** in Mombasa County, Kenya.
3. 2013: Training of private and government health workers in malaria case management in Migori and Homabay Counties, Kenya.
4. 2009 to 2012: Member of Expert Committee for Drug Registration, **Pharmacy and Poisons Board**, Ministry of Health, Kenya.
5. 2010: Training of government health workers in malaria case management in the then Central Province. These included workers from Kiambu, Muranga, Nyandarua, Nyeri and Kirinyaga Counties. Kenya.
6. 2006-2007 - Member of Editorial board, Pharmaceutical Society of Kenya Journal.
7. 2005 to 2010: Member, Pharmacy Awareness Committee of the Pharmaceutical Society of Kenya.

U: Short Courses Attended

1. May 30th to June 19th **2015**-Tianjin University of Traditional Chinese Medicine, Tianjin, China. 4th Advanced Training Program on *Acupuncture and Moxibustion* for African medical practitioners sponsored by Ministry of Education of P.R. of China.
2. March to June **2012**, University of Washington, Seattle, USA. Courses taken during this training included Fundamentals of Implementation Science in Global Health, Policy Development and Advocacy for Global Health; Management and Leadership.
3. 20th -23rd February **2012**: Responsible Conduct of Research Course sponsored by Partnership in Innovative Medical Education for Kenya (PRIME-K) and implemented jointly by University of Nairobi, University of Washington and UoN IEARD/ORP. Olive Gardens, Nairobi, Kenya.
4. 16th -20th January **2012**: Principles of HIV research training workshop, sponsored by the International AIDS Research and Training Program and Center for AIDS Research at the

University of Washington and Medical Education Partnership Initiative at the University of Nairobi, Kenya.

5. 1st -15th November **2010**: 8th Advanced Training Program of Research and Development of Medicinal Plants for African Countries sponsored by Ministry of Education of P.R. of China and organized by Tianjin University of Traditional Chinese Medicine and University of Nairobi, Nairobi Kenya.
6. October **2007**: Unleash the power within you. A Self-Management Training Course by Peak Performance International Limited, Nairobi
7. 21st-22nd May **2006**: Making African journals more visible (and more used). A Joint International Network for the Availability of Scientific Publications (INASP)-HINARI Workshop. Nairobi.
8. Sept to Nov **1999**: Silverline Management Services. Computer programs taught: MSDOS, MSWord, Excel, MS Powerpoint. Self-taught: Chemwindows, Isis Draw, Macromedia Dreamweaver & Fireworks.

V: Workshops and Conferences Attended

1. 7th- 9th April **2014**. University of Nairobi Faculty mentorship training workshop, Naivasha.
2. 26th -29th May 2014. E-Learning joint writers' workshop for CHS, CAVS and CEES, Nairobi.
3. 25-28th February 2013: E-Learning training orientation for tutors to support students both face to face and on-line. Nairobi.
4. 27th -29th April **2012**: At Crossroads: Choosing Hidden Paths in Global Health- 9th Annual Western Regional International Health Conference. University of Washington, Seattle Campus, USA.
5. 26-30th March 2012: E-Learning writers and reviewers workshop, Naivasha.
6. 10-16th June 2012: E-Learning writing, review and revision of instructional materials workshop for Schools of Medicine, Pharmacy, Dental Sciences and Nursing, Naivasha.
7. 26th August- 1st September 2012: E-Learning writers and reviewers workshop. Naivasha.

8. 22nd -26th Sept, 2014: School of Pharmacy Undergraduate and Postgraduate Curricular Review Workshop.
9. 29th August 1st September **2011**: Medical education Innovative Methodologies Workshop conducted by PACE; a program of University of Maryland and University of Nairobi, Kenya.
10. 14-16th March 2011: Leadership and management curriculum Integration. Organizers: School of Pharmacy, UON and Management Sciences for Health (MSH). Elementaita.
11. 22nd to 26th February **2010**: World Health Organization/ Pharmacy and Poisons Board Drug Registration Workshop. Silver springs hotel, Nairobi.
12. 14th to 19th December **2009**: Training and Inception Workshop of Expert Committees for Drug Registration, Pharmacy and Poisons Board, Ministry of Medical services at Kenya School of Monetary Studies, Nairobi Kenya.
13. 26th -29th March **2008**. Kenya Agricultural Productivity Project (KAPP) inception workshop. Project Title: Evaluation and commercialization of medicinal plants' extracts for improved livelihoods: A case study of East Coast Fever.
14. 18th to 19th September **2007**: Afri-health 2007 Conference, Nairobi. Theme; 'Advancing ICT for Patient Safety in Healthcare in Africa.' A CPD Points Award Conference.
15. 10th -14th September **2006**: Post Graduate Diploma in Drug Management and Supply Curriculum Development Workshop, Embu.
16. 16th to 21st July **2006**: Strategic Plan Formulation, Pharmacy and Poisons Board, Kenya School of Monetary Studies, Nairobi Kenya.
17. 21st to 26th Sept **2003**: 13th International Conference on AIDS and STI's in Africa. Nairobi, Kenya.
18. 1st to 3rd April **2004**: WHO/ TDR Good Laboratory Practice Training, Nairobi, Kenya

W: Hobbies

Traveling, History, Philosophy and Chess

X: Referees

Prof. James Machoki M'imunya. The Principal, College of Health Sciences and Professor, Department of Obstetrics and Gynaecology, P.O. Box 9919, Nairobi – 00100.

Tel. 0722 524 174. mmachoki@uonbi.ac.ke

Prof. Julius Mwangi, Professor of Pharmacognosy, Department of Pharmacology and Pharmacognosy, School of Pharmacy, University of Nairobi, P.O. Box 19676-00202, Nairobi. Tel. 0722 825 966. julius.mwangi@uonbi.ac.ke

Prof. Andy Stergachis, Ph.D., R.Ph. Professor of Epidemiology & Global Health; Adjunct Professor of Pharmacy and Director, Global Medicines Program, School of Public Health, University of Washington. Health Sciences Building, F-342 Box 357236 Seattle, WA 98195. Tel: 206-221-0703 Fax: 206-543-852. stergach@u.washington.edu

Fr. Agapius Kamau. Father in-charge, Kevote Parish, Diocese of Embu, P.O. Box 1802, Embu. Tel 0713 871 720.

Z: Certification:

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications and experience

A handwritten signature in blue ink, appearing to read 'Agapius Kamau', is centered within a rectangular box. The signature is fluid and cursive, with a long horizontal stroke extending to the left.