

CURRICULUM VITAE

NAME: THOITHI

OTHER NAMES: GRACE NJERI

MARITAL STATUS: MARRIED

DATE OF BIRTH: 18th MARCH 1963

NATIONALITY: KENYAN

PRESENT POSITION: PROFESSOR
DEPARTMENT OF PHARMACY
UNIVERSITY OF NAIROBI

CAREER OBJECTIVE

To provide academic, research and consultation leadership in pharmaceutical chemistry with emphasis on pharmaceutical analysis, phytochemistry, radiopharmacy and medicines regulation.

A. CONTACT INFORMATION

Address (Office) Department of Pharmacy,
University of Nairobi,
P. O. Box 19676-00202,
Nairobi.

Address (Private) P. O. Box 19902-00202,
Nairobi.

Telephone (Office) +254-20-2314294

Telephone (Mobile) +254-722-780302

Fax +254-20-2711132

e-mail gthoithi@uonbi.ac.ke

gthoithi.gt@gmail.com

B. EDUCATION AND TRAINING

1992 - 1996 Doctor of Pharmaceutical Sciences
Katholieke Universiteit Leuven

1990 - 1992 Master of Pharmaceutical Sciences
Katholieke Universiteit Leuven

1981 - 1986 Bachelor of Pharmacy degree
University of Nairobi

C. UNIVERSITY EMPLOYMENT

1. 2014-Date Professor, Department of Pharmacy.
2. 2004-2014 Associate Professor, Department of Pharmaceutical Chemistry, University of Nairobi.
3. 1998-2004 Senior Lecturer, Department of Pharmaceutical Chemistry, University of Nairobi.
4. 1997-1998 Lecturer, Department of Pharmaceutical Chemistry, University of Nairobi.
5. 1988-1996 Tutorial Fellow, (the then) Department of Pharmacy, University of Nairobi.

D. UNIVERSITY TEACHING AND RESEARCH EXPERIENCE

UNDERGRADUATE EXTERNAL EXAMINER

1. 2003 to 2006. Department of Medicinal Chemistry, Faculty of Pharmacy, Muhimbili College of Health Sciences, University of Dar es Salaam. Tanzania.
2. May 2010. Department of Pharmacy. Makerere University. Uganda.
3. 2010-2012. Department of Medicinal Chemistry, Faculty of Pharmacy, Muhimbili University of Health and Allied Sciences. Dar es Salaam. Tanzania.
4. March 2014. Faculty of Pharmacy. Catholic University of Health and Allied Sciences. Mwanza. Tanzania.

THESES SUPERVISION AND EXAMINATION

Completed Masters Theses Supervision at University of Nairobi:

1. Thuo, Boniface Mburu. Master of Pharmacy (Pharmaceutical Analysis). Evaluation for anthelmintic activity of *Albizia gummifera*, *Crotalaria axillaris*, *Manilkara discolor*, *Teclea trichocarpa* and *Zanthoxylum usambarensis* extracts by *in-vitro* and *in-vivo* methods. G. N. Thoithi, N. Maingi and S. N. Ndwigah. December 2013.
2. Muthuma, Dennis Kirubi. Master of Pharmacy (Pharmaceutical Analysis). Acute and sub-acute toxicity tests on *Teclea trichocarpa* root bark extracts. G. N. Thoithi, P. K. Gathumbi and B. K. Amugune. December 2013.
3. Muema, Stanley Mule. Master of Pharmacy (Pharmaceutical Analysis). Phytochemical investigation of root bark of *Teclea trichocarpa* (Rutaceae). K. O. Abuga, A. Yenesew and G. N. Thoithi. December 2013.
4. Ngomo, Jeremiah N. Master of Pharmacy (Pharmaceutical Analysis). Phytochemical and antimalarial investigation of *Casalpinia volkensii*. G. N. Thoithi, J. W. Mwangi and I. O. Kibwage. February 2013.
5. Mwihia, Evalyn. Master of Science in Clinical Pathology and Laboratory Diagnosis. 'Toxicity testing of *Albizia gummiferra* and ethnoveterinary treatment of East Coast Fever'. J. M. Mbaria, P. K. Gathumbi, G. N. Thoithi and A. G. Thaiyah. January 2013.

6. Sifuma, Shaban W. Master of Science (Pharmacognosy and Complementary Medicine) 'Vintex doniana (Verbenaceae) Evaluation of pharmacological basis of its use in Traditional Medicine'. J. W. Mwangi, G. N. Thoithi and F. A. Okalebo. 2011.
7. Onyancha, Jared Misonge. Master of Science (Pharmacognosy and Complementary Medicine). 'Phytochemistry and Biological Activity of Giant St. John's Wort (*Hypericum keniense* Schwein F)'. J. W. Mwangi, G. N. Thoithi and P. K. Gathumbi. 2011.
8. Onyambu, Meshack Ondora. Master of Science (Pharmacognosy and Complementary Medicine). Identification and characterization of microbial contaminants content of herbal medicines in Kenya. G. N. Thoithi, G. O. Osanjo and H. K. Chepkwony. 2011.
9. Amenya, Hesbon Zablon. Master of Science in Pharmacology and Toxicology. Acute and subacute toxicological studies of *Rapanea melanophloes* in laboratory rats. J. M. Mbaria, P. K. Gathumbi, G. N. Thoithi and A. G. Thaiyah. 2011.
10. Mbae, Ernest Gitonga. Master of Pharmacy (Pharmaceutical Analysis). 'Development and validation of a liquid chromatographic method for the simultaneous determination of caffeine, chlorzoxazone, codeine, diclofenac, doxylamine, ibuprofen and paracetamol in analgesic preparations. G. N. Thoithi, K. A. Abuga and H. K. Chepkwony. 2011.
11. Ongarora, Dennis Bwagwasi Sure. Master of Pharmacy (Pharmaceutical analysis). Phytochemical investigation and antimicrobial activity *Blighia unijugata* Bak. Sapindaceae. I. O. Kibwage, G. N. Thoithi and F. N. Kamau. 2009.
12. Mutai, Peggoty C. Master of Pharmacy (Pharmaceutical Analysis). Phytochemical investigation and antimicrobial properties of *Rhus natalensis*. Bernh. Ex Krauss (Anacardiaceae). G. N. Thoithi, I. O. Kibwage and J. W. Mwangi. 2009.
13. Njuguna, Nicholas Mwaura. Master of Pharmacy (Pharmaceutical Analysis). 'Development and validation of a liquid chromatographic method for the simultaneous determination of diphenhydramine, promethazine and ephedrine contained in cold/cough syrups'. G. N. Thoithi, F. N. Kamau and K. O. Abuga. 2009.
14. Njogu, Peter. Master of Pharmacy (Pharmaceutical Analysis). Phytochemical investigation and antimicrobial activity of *Girardinia diversifolia* (Link) Friis (Urticaceae). G. N. Thoithi, J. W. Mwangi and I. O. Kibwage. 2007.
15. Maima, Apollo. Master of Pharmacy (Pharmaceutical Analysis). Antimicrobial and phytochemical properties of some medicinal plants used by the Luo community of Kenya. I. O. Kibwage, G. N. Thoithi and F. N. Kamau. 2006.
16. Keter, Lucia. Master of Pharmacy (Pharmaceutical Analysis). Development of a liquid chromatographic method for the simultaneous analysis of six protease inhibitors. I. O. Kibwage and G. N. Thoithi. 2005.
17. Mwagiru, Philip Mushiri. Master of Pharmacy (Pharmaceutical Analysis). Development of a liquid chromatographic method and its application in the quality assessment of stavudine-containing products. G. N. Thoithi and I. O. Kibwage. 2004.
18. Ndwigah, Stanley Njagih. Master of Pharmacy (Pharmaceutical Analysis). Phytochemical investigation and anthelmintic activity of *Dombeya rotundifolia* Hochst. G. N. Thoithi, J. W. Mwangi and I. O. Kibwage. 2004.
19. Amugune, Beatrice Kagai. Master of Pharmacy (Pharmaceutical Analysis). Development and validation of a liquid chromatographic method for the simultaneous analysis of anticonvulsant drugs. I. O. Kibwage and G. N. Thoithi. September 2002.

Completed Doctor of Philosophy theses supervision

1. Ndwigah, Stanley Njagih. A study of the phytochemistry of *Dombeya rotundifolia* and *Hydnora abyssinica*. University of Nairobi. Supervisors: G. N. Thoithi, J. W. Mwangi and I. O. Kibwage. December 2013.
2. Amugune, Beatrice Kagai. Screening, isolation and characterization of antifungal principles from some traditional herbal medicines in Kenya. University of Nairobi. . Supervisors: I. O. Kibwage, J. W. Mwangi and G. N. Thoithi. December 2013.
3. Mutai, Peggoty C. Medicinal Chemistry Progression of Phytochemicals from *Dalbergia melanoxylon*. University of Cape Town. Supervisors: K. Chibale, A. Yenesew and G. N. Thoithi. December 2013.
4. Vugigi, Sarah Kandesa. Kenyatta University. Assessment of the Pharmaceutical Manufacturing Industry in Kenya in Regard to self Sufficiency in Essential Medicines. Supervisors IJ Ogaji and G.N Thoithi.
5. Onyambu, Meshack Ondora. Kenyatta University. Chromatographic fingerprinting and quality evaluation of *Warbugia ugadensis* based herbal materials in Kenya. Registered 2013. Supervisors: N. K. Gikonyo, H. Nyambaka and G. N. Thoithi.

Doctor of Philosophy External Examiner at Other Universities

Bano, Husan. Biological and chemical studies on *Commicarpus boissieri* (Heimerl) Cufod.; *Salmalia malbarica* (DC) and *Xanthium strumarium* Linn. University of Karachi. August 2009.

Doctor of Philosophy Theses: Member, Board of Examiners at University of Nairobi

1. Amugune, Beatrice Kagai. Screening, isolation and characterization of antifungal principles from some traditional herbal medicines in Kenya. University of Nairobi. 15th November 2013.
2. Ndwigah, Stanley Njagih. Doctor of Philosophy. A study of the phytochemistry of *Dombeya rotundifolia* and *Hydnora abyssinica*. University of Nairobi. 19th April 2013.
3. Odoyo June, Elijah. Doctor of Philosophy. Wound healing and resumption of sex following medical circumcision of adult males in Kisumu, Kenya. University of Nairobi. 8th April 2013.
4. Maru, Shital Mahindra. Doctor of Philosophy. Formulation development of zidovudine-lamivudine fixed dose combination paediatric mini-matrices by hot melt extrusion. Department of Pharmaceutics and Pharmacy Practice. School of Pharmacy. University of Nairobi. February 2013.
5. Nyaboga, Evans Nyaega. Doctor of Philosophy. Genetic Transformation of Cassava (*Manihot esculenta*) for Abiotic Stress Tolerance. Department of Biochemistry, School of Medicine. University of Nairobi. February 2013.

6. Njaanake, Humphrey Kariuki. *Schistosoma haematobium* and soil-transmitted helminthic infections in primary school children in the Tana Delta, Kenya: Assessment of morbidity patterns, treatment and spatial distribution. University of Nairobi Institute of Tropical and Infectious Diseases. 2012.
7. Oluca, Margaret Ngwono. Doctor of Philosophy. Pharmacogenetics of drug metabolizing enzymes and clinical implications in Kenyan populations. Department of Pharmacology and Pharmacognosy, School of Pharmacy. University of Nairobi. October 2012.
8. Abuga, Kennedy Omondi. Doctor of Philosophy. A study of the antimalarial constituents of *Cassia abbreviate* Oliv. and *Strychnos henningsii* Gilg. Department of Pharmaceutical Chemistry, School of Pharmacy. University of Nairobi. 2009.

E. PEER REVIEWED JOURNALS EDITOR/REVIEWER

1. Editor: The East and Central Africa Journal of Pharmaceutical Sciences (2000-Date).
2. Reviewer: Pakistan Journal of Pharmaceutical Sciences (2010-2012).
3. Reviewer: Public Health Journal (2012).
4. Reviewer: Journal of Chromatographic Science (2013).

F. ADMINISTRATIVE EXPERIENCE

1. March 2008-March 2012: Dean, School of Pharmacy.
2. June 2007- March 2008: Acting Dean, School of Pharmacy.
3. June 2007-2012: Member, Deans' Committee.
4. August 2008-Date: Member, Board of Postgraduate Studies.
5. July 2004 to June 2007: Chairman, Department of Pharmaceutical Chemistry.
6. July 2004-March 2012: Member, Senate.
7. 2006 to 2007: Acted as Dean at various times.
8. 1999-2004: Acted as Chairman at various times.
9. 1997 to Date: Member, Various School of Pharmacy Committees.
10. 2004 to Date : Member of College Academic Board.
11. 2007 to 2012 : Member of College Management Board.
12. 2004 to Date : Member of College Appointment Committees at various times.
13. 2006 to Date: Member of Senate Disciplinary and Appeals Committees at various times.

14. 2013 to Date: College of Health Sciences representative to the Center for Open and Distance Learning (CODL) Board.

G. PROFESSIONAL CONSULTATIONS/ACTIVITIES

1. 1999-2005: Technical expert in Committee of Drug (human) Registration of the Pharmacy and Poisons Board, Kenya.
2. 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).
3. 2002 (October, November): Development and pretesting of tools for measuring access to antimalarial medicines in Kenya. World Health Organization funded study. (Role: Researcher. Principal investigator: I. O. Kibwage).
4. 2003 to 2005: Member of Technical Evaluation Committee for Purchase of Drugs. Kenyatta National Hospital.
5. 2003- 2005: Member, Education Technical Committee of the Pharmaceutical Society of Kenya.
6. 2004-2011: Board of Management Member: National Quality Control Laboratory.
7. March 2005: Contributor-Kenya National Guidelines for Research and Development of HIV/AIDS Vaccines. Ministry of Health. Kenya.
8. January 2006-July 2007: Chairman, Technical expert in Committee of Drug (Veterinary) Registration of the Pharmacy and Poisons Board, Kenya.
9. Aug. 2006 to Jan 2007: Task Force Member, Health Research Capacity Strengthening Initiative, Kenya. A joint initiative of Wellcome Trust, Department of Foreign International Development (DFID) and International Development Research Centre (IDRC).
10. Jan. 2007 to 2008: Member, Interim Executive Committee for the creation of a National Health Research Consortium. A joint initiative of Wellcome Trust, Department of Foreign International Development (DFID) and International Development Research Centre (IDRC).
11. 2007 (November, December): Antimalarial Medicines in Kenya: Availability, Quality and Registration Status. A Ministry of Health survey, funded by World Health Organization. (Role: Data analysis and report writing).
12. 2008 : Good governance for medicines (GGM). A Ministry of Health survey, funded by World Health Organization. (Role: Principal investigator and National Assessor).
13. June-July 2010: Reviewer: Curriculum of Bachelor of Pharmacy, University of Namibia. Supported by USAID through Management Sciences for Health.

14. 2010-2011. Quality Assurance Expert Committee of the Pharmacy and Poisons Board.
15. 2012-2014: Representative of the East African Community Partner States in the African Medicines Regulatory Harmonization Advisory committee.

H. PROFESSIONAL MEMBERSHIP

1. 1987 : Registered Pharmacist. Kenya.
2. Member: Pharmaceutical Society of Kenya (PSK).
3. Member: Kenya Women Pharmacists Association (KEWOPHA).
4. Member: The Natural Product Research Network for Eastern and Central Africa (NAPRECA).
5. Member: Kenya National Academy of Sciences
6. Former Member: Pharmaceutical Society of Belgium.

I. AWARDS

1. The Upjohn Company - Certificate of Merit for best University of Nairobi final year student in the Department of Pharmacy, Faculty of Medicine - 1985/86
2. Kamala Memorial - Gold medal for best University of Nairobi final year student in Faculty of Medicine - 1985/86
3. Gandhi Smarak Nidhi Fund - Merit Award for best University of Nairobi final year student in Faculty of Medicine - 1985/86

J. PROJECTS AND FUNDING

1. Project Title: *In vitro* testing of Kenyan medicinal plants for anthelmintic activity (F/3010-1).
Investigator: Grace N. Thoithi.
Funding agent: International Foundation for Science (IFS), Sweden.
Period: 2000-2001.
2. Project Title: Evaluation of medicinal plants for their trypanocidal effects and anthelmintic activity (ARF/LSKP/1001078/1).
Principle Investigator: Peter Gathumbi, Principle Co-investigator: Grace N. Thoithi.
Funding agent: Agricultural Research Fund (ARF), Kenya.
Period: 2000-2003. Won Third National Scientific Award.
3. Project Title: Evaluation of extracts from selected medicinal plants in Kenya for anthelmintic activity (2001 AR 006).
Principal-Investigator: Grace N. Thoithi.
Funding agent: Africa Career Awards (ACA), Rockefeller Foundation, U.S.A.

Period: 2001-2003.

4. Project Title: Screening of some plants used traditionally in Vihiga district, Western Kenya for anti-fungal activity.
Principal Investigator: Grace N. Thoithi.
Graduate Student: Beatrice Amugune.
Funding agent: African Institute for Capacity Development (AICAD).
Period: 2005-2006; 2007-2008.
5. Project Title: Evaluation and commercialization of medicinal plants' extracts for improved livelihoods: A case study of East Coast Fever.
Principal Investigator: Peter Gathumbi.
Co-investigator: Grace N. Thoithi.
Funding agent: Kenya Agricultural Productivity Project (KAPP), Kenya.
Period: 2007-2010.
6. Title: Global Institute for BioExploration (GIBEX-Africa).
Principal Investigator in Kenya: Grace N. Thoithi.
GIBEX-Africa is a component of GIBEX, established by Rutgers, the State University of New Jersey and the University of Illinois at Urbana, Champaign. It is a research and development network that promotes ethical natural product-based bioprospecting of medicines. It provides a unique opportunity for technology transfer, educational and capacity building programs as well as fora for knowledge sharing.
Project has no funding but involves technology transfer
Period: 2008 to Date.
7. Project title: MEDISHARE: Improving Capacity of Health Sector Researchers in ACP HEIs by Sharing Worldwide Recognized IT Tools and Experiences.
Funding agency: European Community.
Lead Partner (No 1): Marisa De Rosa, CINECA (Bologna, Italy).
Partner 2: Grace N. Thoithi, University of Nairobi (Kenya).
Partner 3: Olipa Ngassapa, Muhimbili University of Health and Allied Sciences (Tanzania).
Partner 4: Richard O. Adome, Makerere University (Uganda).
Partner 5: Matteo Sgarzi, Almalaurea (Bologna, Italy).
Period: 2008-2010.
8. RAF 2008: Expanding and strengthening radiopharmaceutical services in Africa.
Country Coordinator: Grace N. Thoithi.
Funder: International Atomic Energy Agency (IAEA).
National Contact: National Liaison Officer (CEO, National Council of Science and Technology).
Project Management Officer: Ms. Thabisile Moleah, IAEA, Vienna.
Project has no funding directly to country but capacity building through training funded by IAEA headquarters.
Period: 2009-2013.
9. Project Title: Kenya/South Africa Collaborative Research: Novel Approaches towards Identification of New Anthelmintic Drugs through Bioprospecting.
Principal Investigator, Kenya: Grace N. Thoithi.

Principal Investigator, South Africa: Kelly Chibale.
Funding Agent, Kenya: National Council for Science and Technology.
Funding Agent, Kenya: National Research Foundation.
Period: May 2011-2013.

10. Health Services and Implementation Research and Clinical Excellence (SIRCLE).
Lead Partner: KEMRI-Wellcome Trust Research Program (Mike English, Sam Kinyanjui).
Partner 2: University of Nairobi (Grace N. Thoithi, Fred Were, Aggrey Wassuna, Koigi Kamau).
Partner 3: Ministry of Medical Services (Rachel Nyamai).
Amount: k
Funder: Consortium for National Health Research.
Period: 2011-2014.
11. RAF 6049: Expanding and improving Radiopharmacy in Africa.
Country Coordinator: Grace N. Thoithi.
Funder: International Atomic Energy Agency (IAEA).
National Contact: National Liaison Officer (CEO, National Council of Science and Technology).
Project Management Officer: Ms. Thabisile Moleah, IAEA, Vienna.
Project has no funding directly to country but capacity building through training funded by IAEA headquarters.
Period: 2014-2017.

K. RESEARCH ACTIVITIES/EXPERIENCE

1. 1985-1986: Undergraduate project on the phytochemistry of twigs of *Croton macrostachyus* found in Kenya. Structural elucidation of the isolated compounds was done and the work has been published.
2. 1988-1990: Collaborative research in the then Department of Pharmacy that was working on the *Croton* species found in Kenya. Many compounds, including the novel compounds chiromodine and epoxychiromodine, were isolated from *C. megalocarpus*. Constituents of *C. sylvaticus* were also isolated and characterized.
3. 1990-1996: Masters and doctoral studies by research on the chemical stability of some sugar-modified nucleosides using liquid chromatography and other methods (gas chromatography, capillary electrophoresis, ultra-violet spectroscopy, infra-red spectroscopy, mass spectrometry, nuclear magnetic resonance and titrimetric methods).
4. 1997-Date: Day to day supervision of research at Drug Analysis Research Unit (DARU) - routine analysis of commercial samples and research on development of methods for analysis of combinations of antituberculosis, antimalarial, antiepilepsy and antiretroviral drugs, amongst others.
5. 1997-Date: Investigation of Kenyan plants containing essential oils. Determination of the chemical composition of oils of various plants and their antimicrobial activity.
6. 2000-Date: Research on evaluation of Kenyan medicinal plants for their anthelmintic activity.

L. SHORT COURSES:

1. Experimental design and analysis of variance (ANOVA). Reken Centrum, Katholieke Universiteit Leuven, Belgium. 1994/1995.
2. Leadership and Development Worker Techniques. 'Stichting-Lodewijk De Raet' - Institution of Public Utility. Brussel, Belgium. 1991/1992.
3. Information Technology (IT) Basics Training Course. Regional IT Training Center. Satellife Healthnet Kenya. KNH Training Center. Nairobi. Kenya. 7-10th December 1999.
4. Information Technology (IT) Trainers Course. Regional IT Training Center. Satellife Healthnet Kenya. Nairobi. Kenya. 5-7th July 2000.
5. Strategic online publishing workshop for African Journal On-Line (AJOL) editors and production staff. Organised by International Network for the Availability of Scientific Publications (INASP). Nairobi. 4th-6th October 2004.
6. HIV/AIDS Pharmaceutical Management Training. By Management Sciences for Health (MSH). Dar es Salaam. 9th-13th January 2006.
7. Making African Journals More Visible (And More Used). A Joint International Network for the Availability of Scientific Publications (INASP)-HINARI Workshop. Nairobi. 21st-22nd May 2006.
8. Outcome Mapping. Organized by Consortium for National Health Research. Nairobi. 4th-9th - February 2008.
9. Advanced Course in Health Research Methods. Organizer: Regional Aids Training Network (RATN). Date: 22-February- 8th March 2010.

M. ORGANIZING OF REGIONAL AND INTERNATIONAL SYMPOSIA, CONFERENCES AND WORKSHOPS

1. Hospital Radiopharmacy – IAEA Operational Levels 1 & 2. A International Atomic Energy Agency Training Course. Organizing Committee Chairman: G. N. Thoithi. Nairobi. 2-6th July 2012.
2. Botanicals: From research to commercialization symposium. Organizing Committee Chairman: G. N. Thoithi. University of Nairobi, Nairobi, Kenya. 15th March 2010.
3. Preserving and Evaluating Biodiversity through Documentation and the Screens-to-Nature Technology. Training Workshop Organizing Committee Chairman: G. N. Thoithi. University of Nairobi, Nairobi, Kenya. March 16-20, 2010.
4. Medishare closing conference. Organizing Committee Chairman: G. N. Thoithi. Nairobi. 26th-27th October, 2010.

5. Eighth advanced training program on research and development of medicinal plants for African countries. Funded by Ministry of Education of the People's Republic of China through Tianjin University of Traditional Chinese Medicine and University of Nairobi. Organizing Committee Member: G. N. Thoithi. 1-15th November 2010.
6. Medishare Regional Conference. Organizing Committee Chairman: G. N. Thoithi. Nairobi. 2009.

N. RECENT SEMINAR, WORKSHOP AND SYMPOSIUM PRESENTATIONS

1. **Grace Thoithi**. Radiopharmacy training in Kenya. Oral presentation at Taskforce meeting on development of academic and clinical training programme for postgraduate training in Radiopharmacy in Africa. Vienna, Austria. 17th-21st March 2014.
2. **Grace Thoithi**. RAF2008 in Kenya: Achievements and Impact 2009-2013. Oral presentation at Final Coordination Meeting for RAF2008 (Strengthening and Expanding Radiopharmacy Services in Africa). Addis Ababa, Ethiopia. 18th-20th November 2013.
3. **G. N. Thoithi**. Strengthening and Expanding Radiopharmacy services in Africa. Oral presentation at Regional (AFRA) Training Course on Hospital Radiopharmacy – IAEA Operational Levels 1 & 2. Oral presentation at IAEA coordinators regional workshop. Nairobi, Kenya. 2-6th July 2012.
4. **Grace N. Thoithi**, P. Mbugua, M. De Rosa, E. Rinaldi, F. Fonju, O. Ngassapa, E. Kaale, R. Adome, P. Kutuyabami. ICT for Health, Clinical Research and Education in Africa. Oral presentation at '2012 Africa-EU Cooperation Forum on ICT'. November 28-29, 2012, Lisbon, Portugal.
5. **E. Kaale**, M. De Rosa, E. Rinaldi, F. Fonju, O. Ngassapa, **G. Thoithi**, R. Adome, Medishare: ICT for Clinical Research in Africa. The 6th International Conference on ICT for Development, Education and Training, May 25-27, 2011, in Dar es Salaam, Tanzania.
6. J. W. Mwangi, **G. N. Thoithi**, I. O. Kibwage. Traditional medicine in Kenya. International Forum on the Development of Traditional Chinese Medicine. Tianjin, China. 21st-23rd September 2011.
7. **M. English**, **G. Thoithi**, F. Were, K. Koigi, A. Wassuna, R. Nyamai. SIRCLE Collaboration: Health Services, Implementation Research and Clinical Excellence Collaboration. Oral presentation at CNHR Conference on Evidence into Policy. Nairobi, Kenya. November 2011.
8. **G.N. Thoithi** and P. M. Mbugua. Medishare Activities in Africa 2008-2010. Oral presentation at Medishare conference. Bologna, Italy. 4th- 10th July 2010.
9. **M. De Rosa**, P. M. Mungai, E. Rinaldi, O. Ngassapa, **G. Thoithi**, R. Adome, E. Kaale, F.N. Fonju, P. Kutuyabami. Improving capacity of Health Sector Researchers in ACP HEIs by sharing worldwide recognized IT tools and experiences. Oral presentation at Medishare conference. Nairobi, Kenya. 26th-27th October 2010.

10. **G. N. Thoithi**, P. M. Mbugua, J. M. Machoki, B. A. Amugune and T. N. Kiama. ICT for Capacity Building in Health Research: Kenyan Experience. Oral presentation at MEDISHARE conference. Nairobi, Kenya. 26-27th October 2010.
11. **G. N. Thoithi**. Medishare Project: The Partners. Oral presentation at MEDISHARE conference. Nairobi, Kenya. 26-27th October 2010.
12. **G. N. Thoithi**. Evaluation of Hospital Radiopharmacy based on self-assessment. Oral presentation at IAEA Coordinators workshop. Vienna, Austria. 29th November-2nd December 2010.
13. **G. N. Thoithi**. Elements of Good Health Research. Oral presentation to Interns. Consortium for National Health Research Internship Orientation Workshop. Nairobi, Kenya. 20th January 2009.
14. **G. N. Thoithi**. Good governance for medicines in Kenya: Oral presentation at Good governance for medicines human resources training. Geneva. Switzerland. 29th June-3rd July 2009.
15. **G. N. Thoithi**. . ICT for Health Research Capacity Building in Kenya. Medishare networking and training course. Padua, Bologna, Rome. 11-18th July 2009.
16. **G. N. Thoithi**. Pharmacy Training. Oral presentation at Radiopharmacy Training in Africa plus Train the Trainers in Competency based Hot-Lab training. Belleville. South Africa. 27-31st July 2009.
17. **G. N. Thoithi**. Bioequivalence studies: A Kenyan perspective. Oral presentation at Second Regional East African Bioequivalence Workshop. Nairobi. August 2009.
18. **G.N. Thoithi**, K.O. Abuga, H. Chepkwony and **I.O. Kibwage**. Drug Quality and Counterfeit Surveillance in Kenya. Oral presentation at CADES Conference, Katholieke University Leuven. Belgium. February 2008.
19. **G. N. Thoithi**. Pharmacy Education and Profession: Kenya Country Case Study. Poster presentation to the Global Pharmacy Education Taskforce Workshop at International Pharmaceutical Federation (FIP) 2008 Congress. Basel, Switzerland. 30th August -4th September 2008.
20. **G. N. Thoithi** and J. Mwenda. Measuring transparency in the public pharmaceutical sector in Kenya. Oral and poster presentation. Good Governance for Medicines Workshop. World Health Organization. Geneva, Switzerland. 7th-10th October 2008.
21. **G. N. Thoithi**. An overview of the University of Nairobi. Oral presentation. Kick-off Workshop for Project MEDISHARE: Improving Capacity of Health Sector Reserchers in ACP HEIs by Sharing Worldwide Recognized IT Tools and Experiences. Bologna, Italy. 21st-24th October 2008.

22. **G. N. Thoithi**. Kenya : The Role of the Educational System, Research, ICT and Collaboration in the Global Fight against Diseases. Oral presentation. Kick-off Workshop for Project MEDISHARE: Improving Capacity of Health Sector Reserchers in ACP HEIs by Sharing Worldwide Recognized IT Tools and Experiences. Bologna, Italy. 21st-24th October 2008.
23. **G. N. Thoithi**, K. O. Abuga and A. Yenesew. Biological Activities and Chemical Constituents of Plants used for Herbal Medicine in Kenya. Oral presentation at Global Institute for Bioexploration (GIBEX)-Africa Conference. Cape Town, South Africa. 3rd-6th November 2008.
24. **G. N. Thoithi**. Antimalarial medicines in Kenya: Availability, Quality and Registration Status in 2006. Oral presentation at Pharmaceutical Society of Kenya symposium. Mombasa. May 2008.
25. **G. N. Thoithi** and I. O. Kibwage. Drug Quality Control in the Kenyan History – The DARU Experience. Oral presentation. Pharmaceutical Society of Kenya Annual Symposium. Mombasa, Kenya. 31st May-2nd June 2007.
26. J. S. Dambolena, M. P. Zunino, A. G. López, J. A. Zygadlo, J. W. Mwangi, **G. N. Thoithi**, I. O. Kibwage, S. T. Kariuki and J. M. Mwalukumbi. Essential oils of *Ocimum basilicum* L. and *Ocimum gratissimum* L. from Kenya: Composition, antiradical and antimicotoxicogenic activity. Oral presentation. The 12th Symposium of the Natural Product Research Network for Eastern and Central Africa (NAPRECA). Kampala. Uganda 22nd-25th July 2007.

O. THESES

1. **G. N. Thoithi**. Investigation of the stability of some sugar-modified nucleosides using liquid chromatography. Doctor of Pharmaceutical Sciences thesis. Katholieke Universiteit Leuven. December 1996.
2. **G. N. Thoithi**. Kinetics of hydrolysis of monoamino analogues of 2'- or 3'- deoxyadenosine and 2'- or 3'-deoxy- 9-(β -D-*lyxo*-pentofuranosyl)adenine. Master of Pharmaceutical Sciences thesis. Katholieke Universiteit Leuven. July 1992.

P. BOOK CHAPTER AND RESEARCH MINI-REVIEWS

1. J. W. Mwangi, **G. N. Thoithi** and I.O. Kibwage (2009). Essential oil bearing plants from Kenya: Chemistry, biological activity and applications. In H.R. Juliani, J.E. Simon and C.T. Ho (eds). African Natural Plant Products: discoveries and Challenges in Quality Control. American Chemical Society Symposium Series 1021. American Chemical Society, Washington D.C. USA. Pp 495-525.
2. **G. N. Thoithi** and B. K. Amugune (2005). Screening of some plants used traditionally for antifungal activity in Vihiga district, Western Kenya. AICAD Research Mini-reviews **4**: 72-75. ISSN 1810-925X www.aicad.or.ke.

Q. PUBLICATIONS

1. M. O. Onyambu, N. K. Gikonyo, N. Hudson and **G. N. Thoithi** (2021). Development of Gas Chromatography-Mass spectrometry fingerprints for *Warbugia ugandensis* herbal materials. *Malaysian Journal of Pharmaceutical Sciences (MJPS)*. 19(2).
2. M. O. Onyambu, N. K. Gikonyo, N. Hudson and **G. N. Thoithi** (2020). Macroscopic and Microscopic features of diagnostic value of *warbugia ugandensis*, Sparague leaf and stem-bark herbal materials. *Journal of Pharmacognosy and phytotherapy*. 112(2):36-43.
3. M. O. Onyambu, N. K. Gikonyo, H. N. Nyambaka and **G. N. Thoithi** (2019). A review in trends of herbal drugs standardization, regulation and intergration to the national healthcare systems in Kenya and the globe. *International Journal of Pharmacognosy and Chinese Medicine*. 3(3).
4. S. K. Vugigi, **G. N. Thoithi**, J. I. Ogaji and S. O. Onuonga (2019). Good Manufacturing Practices in the Kenyan Pharmaceutical Industry and Impact of Facility Upgrading on Domestic and International sales. *East Cent. Afr. J. Pharm. Sci.* 22:77-84.
5. S. K. Vugigi, **G. N. Thoithi**, J. I. Ogaji and S. O. Onuonga (2017). Production Capacity of the Pharmaceutical Manufacturing Industry in Kenya. *East Cent. Afr. J. Pharm. Sci.* 20:3-12.
6. S. K. Vugigi, J. I. Ogaji and **G. N. Thoithi** (2015). Assessment of the Pharmaceutical Manufacturing Industry in Kenya in Regard to self Sufficiency in Essential Medicines. *Pharmaceutical Journal of Kenya*. 22(3): 87-92.
7. B. K. Amugune, J. W. Mwangi, **G. N. Thoithi**, L. K. Omosa and I. O. Kibwage. Antimicrobial activity and bioactive constituents of *Alectra sessiliflora* (Vahl) Kuntze. *East Cent. Afr. J. Pharm. Sci.* 16(2013)63-70.
8. S. N. Ndwigah, **G. N. Thoithi**, J. W. Mwangi, B. K. Amugune, H. N. Mugo and I. O. Kibwage. Phytosterols from *Dombeya torida* (J. F. Gmel). *East Cent. Afr. J. Pharm. Sci.* 16 (2013)44-48.
9. 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 torida* (J. F. Gmel) and *Hydnora abyssinica* (A. Braun). *Afr. J. Pharmacol. Ther.* **3**: 14-18.
10. H. Z. Amenity, P. K. Gathumbi, J. M. Mbaria, A. G. Thaiyah and **G. N. Thoithi** (2014). Sub-acute toxicity of the chloroformic extract of *Rapanea melanophloes* (L.) Mez in Sprague Dawley rats. *J. Ethnopharmacology*. In Press. Available online 13 April 2014. <http://www.sciencedirect.com/science/article/pii/S037887411400275X>
11. 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'andu, H. N. Mugo and I. O. Kibwage (2013). Quality Performance of Drugs Analyzed in the Drug Analysis and research Unit (DARU) during the Period 2006-2010. *East Cent. Afr. J. Pharm.* 16(2013).
12. P. Mutai, M. Heydenreich, **G. Thoithi**, G. Mugumbate, K. Chibale and A. Yenesew (2013). 3-Hydroxyisoflavanones from the stem bark of *Dalbergia melanoxylon*: Isolation,

- antimycobacterial evaluation and molecular docking studies. *Phytochemistry Letters*. **6**: 671-675.
13. M. O. Onyambu, H. K. Chepkwony, **G. N. Thoithi**, G. O. Ouya and G. O. Osanjo (2013). Microbial quality of unregulated herbal medicinal products in Kenya. *Afr. J. Pharmacol. Ther.* **2**: 70-75.
 14. M. Mulaku, N. Opiyo, J. Karumbi, G. Kitonyi, **G. Thoithi** and M. English (2012). Evidence review of hydroxyurea for the prevention of sickle cell complications in low-income countries. *Arch Dis Child* doi:10.1136/archdischild-2012-302387. (<http://adc.bmj.com/content/early/2013/08/30/archdischild-2012-302387.full>).
 15. P. M. Njogu, **G. N. Thoithi**, J. W. Mwangi, F. N. Kamau, I. O. Kibwage, S.T. Kariuki, A. Yenesew, H. N. Mugo and J. M. Mwalukumbi (2011). Phytochemical and antimicrobial investigation of *Girardinia diversifolia* (Link) Friis (Urticaceae). *East Cent. Afr. J. Pharm. Sc.* **14**: 89-94.
 16. H. Z. Ameny, **G. N. Thoithi**, A. G. Thaiyah, J. M. Mbaria and P. K. Gathumbi (2011). *In vitro* and acute in vivo toxicity of the aqueous and chloroformic extracts of *Rapanea melanophloeos* (L) Mez. *Kenya Veterinarian*. Vol 35. Open Access. <http://www.ajol.info/index.php/kenvet/article/view/87551>
 17. J. S. Dambolena, M. P. Zunino, A. G. López, J. A. Zygadlo, J. W. Mwangi, **G. N. Thoithi**, I. O. Kibwage, S.T. Kariuki and J. M. Mwalukumbi (2010). Essential oils of *Ocimum basilicum* L. and *Ocimum gratissimum* L. from Kenya: Composition, antiradical and antimicotoxicogenic activity. *Journal of the Science of Food and Agriculture*. **11**: 410-414.
 18. D. S. B. Ongarora, **G. N. Thoithi**, F. N. Kamau, K. O. Abuga, J. W. Mwangi and I. O. Kibwage (2009). Triterpenoids From the Stem Bark of *Blighia unijugata* Bak. (Sapindaceae). *Ethiop. Pharm. J.* 24:71-74.
 19. L. K. Keter, **G. N. Thoithi** and I. O. Kibwage (2008). Development and validation of a liquid chromatographic method for the simultaneous analysis of six protease inhibitors on a polymer column. *East Cent. Afr. J. Pharm. Sc.* **11**:3-8.
 20. 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. Sc.* **11**: 52-54.
 21. **G. N. Thoithi**, K. O. Abuga, J. M. Nguyo, O. King'ondy, G. G. Mukindia, H. N. Mugo, J. K. Ngugi and I. O. Kibwage (2008). Drug quality control work in Drug Analysis and Research Unit: Observation during 2001-2005. *East Cent. Afr. J. Pharm. Sci.* **11**: 74-81.
 22. R. S. Malele, J. W. Mwangi, **G. N. Thoithi**, I. O. Kibwage, M. L. López, M. P. Zunino, A. G. López, J. A. Zygadlo, M. M. Oliva and M. S. Demo (2007). Essential oil of *Cymbopogon winterianus* Jowitt from Tanzania: Composition and antimicrobial activity. *J. Essential Oil Bearing Plants*. **10**: 83-87.

23. B. K. Amugune, **G. N. Thoithi** and I. O. Kibwage (2006). Liquid chromatographic analysis of phenobarbitone, ethosuximide, phenytoin and carbamazepine on a polystyrenedivinylbenzene column. *East Cent. Afr. J. Pharm. Sc.* **9**: 19-25.
24. J. W. Mwangi, **G. N. Thoithi**, I. O. Kibwage, M. S. Demo, M. M. Oliva, M. P. Zunino and J. A. Zygadlo (2005). Essential oil of *Rhynchosia minima* from Kenya: Composition and antibacterial properties. *J. Essential Oil Res.* **17**: 230-231.
25. J. W. Mwangi, N. N. Mungai, **G. N. Thoithi**, and I. O. Kibwage (2005). Traditional/Herbal Medicine in National Healthcare in Kenya. *East Cent. Afr. J. Pharm. Sc.* **8**: 22-26.
26. I. O. Kibwage, J. W. Mwangi and **G. N. Thoithi** (2005). Quality Control of Herbal Medicines. *East Cent. Afr. J. Pharm. Sc.* **8**: 27-31.
27. S. N. Ndwigah, **G. N. Thoithi**, J. W. Mwangi and I. O. Kibwage (2005). Constituents of the stem bark of *Dombeya rotundifolia*. *East Cent. Afr. J. Pharm. Sc.* **8**: 40-42.
28. M. M. Oliva, M. S. Demo, R. S. Malele, C. K. Mutayabarwa, J. W. Mwangi, **G. N. Thoithi**, I. O. Kibwage, S. M. Faillaci, R. L. Scrivanti, A. G. Lopez and J. A. Zygadlo (2003). Essential Oil of *Brachylaena hutchinsii* Hutch from Tanzania: Composition and Antimicrobial Activity and composition. *East Cent. Afr. J. Pharm. Sc.* **6**: 61-63.
29. S. Malele, C. K. Mutayabarwa, J. W. Mwangi, **G. N. Thoithi**, A. G. Lopez, E. I. Lucini and J. A. Zygadlo (2003). Microbial activity and composition of *Hyptis suaveolens* (L.) Poit. Essential oil from Tanzania. *J. Essential Oil Research* **15**: 438-440.
30. K. O. Abuga, P. M. Mwagiru, **G. N. Thoithi**, J. M. Nguyo, J. K. Ngugi, O. K. Kingondu, H. N. Mugo and I. O. Kibwage (2003). Quality of antiretroviral drugs analyzed in the Drug Analysis Research Unit during 2000-2003, *East Cent. Afr. J. Pharm. Sc.* **6**: 20-23.
31. F. K. Kamau, **G. N. Thoithi**, J. K. Ngugi, O. K. Kingondu and I. O. Kibwage (2003). Quality of amoxicillin preparations in the Kenyan market, *East Cent. Afr. J. Pharm. Sc.* **6**: 57-60.
32. **G. Thoithi**, I. O. Kibwage, O. Kingondu, E. Roets and J. Hoogmartens (2002). Liquid chromatographic separation of isoniazid, pyrazinamide and rifampicin on a reversed-phase silica column. *East Cent. Afr. J. Pharm. Sc.* **5**: 8-14.
33. **G. N. Thoithi**, K. O. Abuga, J. M. Nguyo, G. Mukindia, O. Kingondu, J. K. Ngugi and I. O. Kibwage (2002). Drug quality control work in Drug Analysis and Research Unit: Observation during 1996-2000. *East Cent. Afr. J. Pharm. Sc.* **5**: 28-32.
34. **G. N. Thoithi**, N. Maingi, D. Karume, P. K. Gathumbi, J. W. Mwangi and I. O. Kibwage (2002). Anthelmintic and other pharmacological activities of the root bark extracts of *Albizia anthelmintica* Brongn, *East Cent. Afr. J. Pharm. Sc.* **5**: 60-66.
35. J. W. Mwangi, P. K. Gathumbi, I. O. Kibwage, **G. N. Thoithi** and H. A. Oketch-Rabah. Alternative medicines and prostate enlargement-*Prunus africana* emphasis. *Pharm. J. Kenya*. March 2001. p 26-31.

36. J. W. Mwangi, **G. N. Thoithi**, H. R. Juliani (Jr.) and J. A. Zygadlo (2001). Composition of the essential oil of *Microglossa pyrrhopappa* var. *pyrrhopappa*. *J. Essential Oil Research* **13**: 229-230.
37. F. N. Kamau, **G. N. Thoithi** and I. O. Kibwage (2001). Quality of ampicillin preparations on the Kenyan market, *East Cent. Afr. J. Pharm. Sc.* **4**: 25-29.
38. J. W. Mwangi, **G. N. Thoithi**, I. O. Kibwage, J. A. Zygadlo, M. L. Lopez. M. M. Olivia, M. S. Demo, M. Toyota and J-C. Chalchat (2001). Constituents of the essential oil of *Cymbopogon afronardus* Stapf. *East Cent. Afr. J. Pharm. Sc.* **4**: 43-47.
39. **G. Thoithi**, A. Van Schepdael, R. Busson, G. Janssen, E. Roets and J. Hoogmartens (2000). Investigation of the kinetics of degradation of hexopyranosylated cytosine nucleosides using liquid chromatography. *Nucleosides and Nucleotides* **19**: 189-203.
40. J. W. Mwangi, **G. N. Thoithi**, I. Addae-Mensah, H. Achenbach, W. Lwande and H. Hassanali (1999). Aromatic plants of Kenya IV: Volatile and some non-volatile constituents of the stem bark of *Synadenium compactum* NE Br. Var. *compactum*, *East Cent. Afr. J. Pharm. Sc.* **1**: 5-7.
41. J. W. Mwangi, W. Masengo, **G. N. Thoithi** and I. O. Kibwage (1999). Screening of some Kenyan medicinal plants using the Brine Shrimp Lethality Test. *East Cent. Afr. J. Pharm. Sc.* **2**: 63-71.
42. J. W. Mwangi, **G. N. Thoithi**, W. Lwande and H. Hassanali (1999). Aromatic plants of Kenya II: Volatile constituents of leaf oil of *Psiadia punctulata* (D.C.) Vatke. *J. BiochemiPhysics* **8**: 32-33.
43. **G. Thoithi**, A. Van Schepdael, C. Vinckier, P. Herdewijn, E. Roets and J. Hoogmartens (1999). Evaluation of the kinetics of hydrolysis of diamino analogues of 2'- or 3'-deoxyadenosine and of 9-(2-deoxy- β -D-*threo*-pentofuranosyl)adenine or 9-(3-deoxy- β -D-*threo* pentofuranosyl) adenine by liquid chromatography. *Nucleosides and Nucleotide*. **18**: 1863-1877.
44. J. W. Mwangi, **G. N. Thoithi**, I. Addae-Mensah, H. Achenbach, W. Lwande and H. Hassanali (1998). Aromatic plants of Kenya III: Volatile and some non-volatile constituents of *Croton sylvaticus*. *East Cent. Afr. J. Pharm. Sc.* **1**: 41-43.
45. **G. Thoithi**, A. Van Schepdael, P. Herdewijn, E. Roets and J. Hoogmartens(1997). Liquid chromatographic separation of hexopyranosylated cytosine nucleosides from their degradation products. *J. Pharm. Biomed. Anal.* **16**: 533-540.
46. **G. Thoithi**, A. Van Schepdael, R. Busson, P. Herdewijn, E. Roets and J. Hoogmartens (1995). Kinetics of hydrolysis of monoamino analogues of 2'- or 3'-deoxyadenosine and 2'- or 3'-deoxy- 9-(β -D-*lyxo*-pentofuranosyl)adenine, *Nucleosides and Nucleotides*, **14**: 1559-1579.

47. **G. Thoithi**, A. Van Schepdael, P. Herdewijn, E. Roets and J. Hoogmartens (1995). Liquid chromatographic separation of diamino analogues of 2'- or 3'-deoxyadenosine from adenine on a poly(styrene-divinylbenzene) polymer column , *J. Chromatogr. A*, **689**: 247-254.
48. J. Paesen, I. Quintens, **G. Thoithi**, E. Roets, G. Reybrouck and J. Hoogmartens (1994). Quantitative analysis of quaternary ammonium antiseptics using thin-layer densitometry. *J. Chromatogr. A*, **677**: 377-384.
49. **G. Thoithi**, A. Van Schepdael, P. Herdewijn, E. Roets and J. Hoogmartens (1993). Liquid chromatographic separation of monoamino analogues of 2'- or 3'-deoxyadenosine from adenine, *Chromatographia*, **35**: 451-454.
50. Addae-Mensah, G. Muriuki, **G. Karanja**, C. Wandera, Reiner Waibel and H. Achenbach (1992). Constituents of the stem bark and twigs of *Croton macrostachy(u)s*, *Fitoterapia*, **LXIII**: 81-82.
51. Addae-Mensah, H. Achenbach, **G. Thoithi**, Reiner Waibel and J. Mwangi (1992). Epoxychiromodine and other constituents of *Croton megalocarpus*, *Phytochemistry* **31**: 2055-2058.

REFEREES

1. Prof. Isaac O. Kibwage
Department of Pharmaceutical Chemistry
School of Pharmacy
P. O. Box 19676
00202 Nairobi. Kenya.
Email: okibwage@uonbi.ac.ke
2. Prof. Julius W. Mwangi
Department of Pharmacology and Pharmacognosy
School of Pharmacy
P. O. Box 19676
00202 Nairobi. Kenya.
Email: mupal02@yahoo.com
3. Prof. Charles K. Maitai
Department of Pharmacology and Pharmacognosy
School of Pharmacy
P. O. Box 19676
00202 Nairobi. Kenya.
ckmaitaiwamagana@yahoo.com

Signed: _____

Date: 18th November 2021

Grace Njeri Thoithi