

CURRICULUM VITAE

DR. JOSEPH MAINGI MAITHA

B.Pharm. (UoN), M.Pharm. (Pharmacognosy & Comp. Med.) (UoN)
(Pharmacognosist, Pharmaceutical Researcher, Consultant Pharmacist & Lecturer)

CAREER OBJECTIVE

To work in a vibrant, dynamic and intellectually stimulating environment that provides complex, comprehensive and challenging opportunities where my skills, knowledge, attitude and work experience could be further developed and applied.

1.0: PERSONAL INFORMATION

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SUMMARY

I am a Pharmacognosist possessing Master of Pharmacy Degree in Pharmacognosy and Complementary Medicine from the University of Nairobi (UoN) and Bachelor of Pharmacy Degree from the same university. I am currently undertaking a PhD degree program in Pharmacognosy and Complementary Medicine (PCM) at the UoN. I am a Registered Pharmacist by the Pharmacy and Poisons Board of Kenya and dedicated to generation of knowledge, skills advancement and research in the areas of PCM. I have wealth of working and teaching experience. In aggregate, I have twenty years work experience in pharmaceutical matters, both in academia and hospital set-up. I have at least nine years teaching experience as a full-time Lecturer of PCM. Currently I am a full-time Lecturer at Kenyatta University (KU). I have headed the department of Pharmacognosy and Complementary Medicine at KU. Previously, I taught PCM as full-time lecturer at the School of Pharmacy, Mount Kenya University (MKU). I have also taught PCM as a part-time Lecturer at Jomo

Kenyatta University of Agriculture and Technology, The Kenya Medical Training College Mombasa, The Mombasa Polytechnic University College, The Nairobi Institute of Business Studies and the Lake Institute of Tropical Medicine, Kisumu. I have worked for the Ministry of Health (MoH) from 2001 to 2011 as the Hospital Pharmacist in-charge in the following Hospitals: Machakos Provincial General Hospital; New Nyanza Provincial General Hospital; Tigoni District Hospital and PortReitz District Hospital. I have worked in Defence Forces Memorial Hospital, Nairobi as a Pharmacist intern. When working for MoH, due to diligence and hard work, I rose through the ranks from Job Group “L” (Pharmacist Intern) to Job Group “P”

(Assistant Chief Pharmacist) within a period of six years. I have taught in Makueni Boys High School after excelling in my form four exams in Mang’u High School. Previously, before I joined Mount Kenya University in 2013 to carry out full-time teaching and research, I worked as Hospital Pharmacist in The Mater Hospital, Nairobi. Teaching in KU and MKU as Full-time Lecturer for more than nine years and as Part-time Lecturer in the above mentioned Pharmacy program offering Universities and Colleges for over ten years has given me a wealth of skills in training young and dynamic aspiring pharmacy professionals. I have headed the department of Pharmacognosy and Pharmaceutics in MKU. I was the Chair, Academic advisory and Mentorship Committee of the School of Pharmacy in MKU. I was the Chair, School of Pharmacy Research Committee and the School representative to the MKU Research Committee. My passion is service to humanity through creation, transmission and utilization of knowledge by developing effective, safe, affordable, environment friendly and sustainable solutions to health problems.

2.0: EDUCATIONAL BACKGROUND

2016 –To date	University of Nairobi
	Doctor of Philosophy Degree in Pharmacognosy and Complementary Medicine (ongoing)

2011-- 2014	University of Nairobi Masters of Pharmacy in Pharmacognosy and Complementary Medicine
1996- 2001	University of Nairobi Bachelor of Pharmacy Obtained Bachelor of Pharmacy degree
1991-1994	Mang`u High School Kenya Certificate of Secondary Education (K.C.S.E.) Obtained Grade A (PLAIN) of 93 out of 96 points
1983-1990	Kiluluini Primary School, Makueni County Kenya Certificate of Primary Education (K.C.P.E.)

3.0: WORKING AND PROFESSIONAL EXPERIENCE

Oct 2017 - To date **Full- time Lecturer of Pharmacognosy**, School of Pharmacy, Department of Pharmacognosy and Pharmaceutical Chemistry Kenyatta University, Main Campus.

July 2019- 2020 **Section Head of Pharmacognosy and Complementary Medicine**, Kenyatta University, School of Pharmacy, Main Campus.

June 2013 – Dec 2017 **Full- time Lecturer of Pharmacognosy**, Department of Pharmacognosy, Mount Kenya University, School of Pharmacy, Main Campus, Thika.

2016-2017 **Head of Department, Pharmacognosy and Pharmaceutics**, Mount Kenya University, School of Pharmacy, Main Campus, Thika.

Sept 2014 – Dec 2016 **Lecturer (part-time) of Pharmacognosy**, Department of Pharmacology and Pharmacognosy, Jomo Kenyatta University of Agriculture and Technology

Feb 2013 – June 2013 **Hospital Pharmacist**, The Mater Hospital, Nairobi.

Jan 2010 – Sep 2011 **Hospital Pharmacist-** Port Reitz District Hospital Responsibilities

❖ Hospital pharmacist in-charge of the hospital

Jan 2011-August 2011 Part-time Pharmacy Lecturer at Mombasa
Polytechnic University College, Mombasa.

Subject taught:

❖ Pharmacognosy

Jan 2011 –Aug 2011 Part-time Pharmacy Lecturer at Kenya Medical
Training College, Mombasa Campus.

Subject taught:

❖ Pharmacognosy

Dec 2007-Dec 2009 Hospital Pharmacist- Tigoni District Hospital
Responsibilities

❖ Hospital Pharmacist in-charge of the hospital

Jan 2009-Aug2009 Part-time Pharmacy Lecturer, at Nairobi Institute of
Business Studies

Subjects taught:

❖ Pharmacology

❖ Pharmacognosy

❖ Drug Supplies management

Dec 2005-Dec 2007 Hospital Pharmacist- New Nyanza Provincial General
Hospital

Responsibilities:

❖ Hospital pharmacist in-charge, Out-Patient Drug
Services

Dec 2005-Dec 2007 Part-time Pharmacy Lecturer- at The Lake Institute of
Tropical Medicine, Kisumu

Subjects taught:

❖ Pharmacology

❖ Pharmacognosy

❖ Drug Supplies Management

Nov2002-Dec2005 Hospital Pharmacist- Machakos level 5 Hospital
Responsibilities:

❖ Hospital pharmacist in-charge of the hospital

Nov 2001-Nov 2002 Internship Training Programme:

❖ Hospital pharmacy- 6 months at Armed Forces Memorial
Hospital, Nairobi

- ❖ Industry- 3 months at Pharmaceutical Products Ltd, Nairobi
- ❖ Community pharmacy- 3 months at Pentapharm Ltd, Nairobi
- ❖ **Registered as Pharmacist** by Pharmacy and Poisons Board after successfully completing my internship and passing the Pharmacy and Poisons Board Professional Exams

May 1995- Dec 1998 Teaching: Untrained Teacher-Makueni Boys High School

- ❖ Teaching at Makueni Boys High School, from May 1995, after excelling in my K.C.S.E. in 1994 at Mang'u High School, as I awaited to join the University of Nairobi for my Bachelor of Pharmacy Degree course from October 1996.
- ❖ Teaching at Makueni Boys High School during the University vacations from Sept to Dec in both 1997 and 1998, while I was a Bachelor of Pharmacy student at the University of Nairobi.

4.0: OTHER PROFESSIONAL/SPECIAL SKILLS, COMPETENCIES AND TALENTS

- Visionary , innovative and capable of establishing an effective, dynamic and motivated management team
- Ability to learn and adapt to new environment
- Capacity to plan and manage complex administrative activities and processes and ability to demonstrate initiative and sound judgment
- Capacity to make quality decisions, to resolve conflicts, to communicate effectively, delegate wisely and set and achieve goals
- A person of integrity, with excellent interpersonal skills capable of establishing effective working relationships with all people in the institution
- Dynamic, well- organized, result-oriented, clear-minded, open to continuous learning and a problem solver
- Strong organizational skills and attention to detail
- High level of professionalism, commitment to duty and transparency
- Excellent decision making and judgement skills with outstanding creativity and innovativeness.
- Excellent performance management, leadership and negotiation skills
- High levels of accountability, client orientation and technological awareness
- Extraordinary resource mobilization skills

- Ability to work for under pressure and meet deadlines and the capacity to work with minimum supervision while performing duties
- Understanding and adherence to work ethics and ability to carry out instructions and instruct others
- Proficiency with MS Office suite: Outlook, Word, Excel and Powerpoint

5.0: ADDITIONAL RESPONSIBILITIES

Previous and Current

- Section Head of Pharmacognosy and Complementary Medicine, Kenyatta University, School of Pharmacy
- Head, Department of Pharmacognosy and Pharmaceutics, Mount Kenya University
- Chair- Mount Kenya University School of Pharmacy Research Committee
- Representative of Mount Kenya School of Pharmacy to the University Research and Development Committee
- Chair – Mount Kenya University School of Pharmacy Budgetary Committee
- Chair- Mount Kenya University School of Pharmacy Admissions, Registration and Indexing Committee
- Internal Quality Auditor- Mount Kenya University Quality Management Systems based on ISO 9001: 2008
- Member- Mount Kenya University School of Pharmacy Post-graduate Programmes, Projects, Thesis, Research and Seminars Committee
- Member- Kenyatta University School of Pharmacy Undergraduate Studies Committee
- Member –Mount Kenya University School of Pharmacy Verification of Result Slips Committee
- Chair, Student Academic Advisory Services, School of Pharmacy, Mount Kenya University

6.0: AWARDS, HONORS AND MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- **2011-2013:** Awarded University of Nairobi Scholarship, funded by the University of Nairobi, and administered through the Board of Post-graduate Studies of the same University to pursue a Masters degree in Pharmacognosy and Complementary Medicine at the university's Department of Pharmacology and Pharmacognosy at the School of Pharmacy.
- **2015:** Awarded Full Scholarship by Chinese Government Administered through Chinese Scholarship Council to pursue PhD Degree in Pharmacognosy and Complementary Medicine in Tianjin University of Traditional Chinese Medicine (TUTCM) in China. I decided, however, to pursue the PhD degree course at the University of Nairobi. ➤ Member, Pharmaceutical Society of Kenya (MPSK).

7.0: CONFERENCES, SYMPOSIA, WORKSHOPS AND TRAINING

- Training course: *Research Ethics*, Thika, Kenya: April 2016
- Training course: *An internal Quality Auditors course based on ISO 9001: 2008 and ISO 19011:2011*, Thika, Kenya: Feb-March 2014
- Training course: *Training of Trainers in TB Commodity Management*, Thika, Kenya: August 2009
- Training course: *Supportive Supervision for Health Commodities Management in Kenya*, Limuru, Kenya: March 2009
- Training course: *Basic Techniques for Managing Medicines and Supplies in Support of ACT Policy Implementation in Kenya*, Kisumu, Kenya: February 2006
- Training course: *Rational Use of ARV Drugs*, Nairobi, Kenya: November 2003

8.0: INTERESTS

(i) RESEARCH INTERESTS

- Current research interests in drug discovery from natural sources, principally plants, with particular emphasis on ethnopharmacological approach to drug discovery and the application of modern drug discovery tools and technologies to complement conventional drug discovery approaches.
- Specifically:
 - The application of high throughput virtual screening techniques in the identification of novel bioactive compounds from plants and other natural sources
 - *In vitro* and *in vivo* pharmacological evaluation of bioactive compounds from plants and other natural sources
 - Ethnopharmacological approach to drug discovery coupled with conservation of biodiversity for sustainable supply of phytopharmaceutical resources

(ii) OTHER RESEARCH RELATED INTERESTS

- Reading magazines and scientific journals on ethnopharmacology and current trends on phytomedicines
- Watching television documentaries on nature's biodiversity with regard to animals and plants as well as documentaries on science, technology and innovations.

9.0: ACADEMIC RESEARCH PROJECT SUPERVISORY WORK

I have supervised at least **Ten (14) Bachelor of Pharmacy Degree** students for their final year **pharmacognosy-related research projects**, as outlined below:

(i) Name of Student: KELVIN KASAINI NJERI

Title of Research Project: Phytochemical screening and investigation of antibacterial activity and resistance patterns of *Tagetes minuta* leaf extract

Status of project: COMPLETED (2019)

(ii) Name of Student: LAILA A. KASUMBA

Title of Research Project: Preparation and formulation of Pumpkin seed granule nutraceutical for the management of worm infestation.

Status of project: COMPLETED (2019)

(iii) Name of Student: IKOL MARKCHAVEZ

Title of Research Project: Investigation of phytochemicals contained in *Salvia Hispanica*.

Status of project: COMPLETED (2019)

(iv) Name of Student: LILY WAITHERA MWANGI

Title of Research Project: Investigation of the influence of socioeconomic factors on ibuprofen abuse among patients visiting community pharmacy in Nairobi, Kenya.

Status of project: COMPLETED (2019)

(v) Name of Student: MOHAMUD KHADIJA NOOR

Title of Research Project: Evaluation of the phytochemistry and antimicrobial activity of extracts of *Nigella sativa* (Ranunculaceae) seeds.

Status of project: COMPLETED (2016)

(vi) Name of Student: ANNE B. MATHEKA

Title of Research Project: Phytochemical screening and investigation of antimicrobial activity of *Solanum incanum*.

Status of project: COMPLETED (2016)

(vii) Name of Student: JACQUELYNE MBINYA NGOTHO

Title of Research Project: Phytochemical screening and antimicrobial activity of *Persea americana* seed extracts.

Status of project: COMPLETED (2014)

(viii) Name of Student: IVY NELLIE ONYONA

Title of Research Project: Phytochemical screening and antimicrobial activity of crude extract of *Catha edulis* (Khat).

Status of project: COMPLETED (2014)

(ix) Name of Student: PATRIC KASINA

Title of Research Project: Evaluation of the prevalence and attitudes of complementary alternative medicine use among patients with diabetes mellitus in Rift Valley Provincial Hospital, Nakuru.

Status of project: COMPLETED (2014)

(x) Name of Student: KARIUKI ANDREW KARIUKI

Title of Research Project: To qualitatively and quantitatively determine the label claim of various amoxicillin brands in the market by using HPLC assay method by comparison with standard amoxicillin U.S.P.

Status of project: COMPLETED (2013)

(xi) Name of Student: JULIUS KIPTUM ROTICH

Title of Research Project: Evaluation of the incidence, prevalence and therapeutic management of breast cancer patients at Moi Teaching and Referral Hospital, Eldoret :

Status of project: COMPLETED (2014)

(xii) Name of Student: BERYL AKINYI OKELLO

Title of Research Project: Patterns of antibiotic use in the treatment of urinary tract infections at Kenya Medical Training Clinic, Nairobi

Status of project: COMPLETED (2014)

(xiii) Name of Student: ROSELINE ADHIAMBO OYUGA

Title of Research Project: Correlation between dispensing instructions and actual medication use practices at the household level in Seme East Division of Kisumu County :

Status of project :COMPLETED (2013)

(xiv) Name of Student: WALTER ODONGO OWAKO

Title of Research Project: Prevalence and management of adverse drug effects associated with antiretroviral therapy on HIV-infected adult patients in Defence Forces Memorial Hospital.

Status of project: COMPLETED (2013)

10.0. RESEARCH, PUBLICATIONS, THESIS AND DISSERTATIONS

a) MSc (Pharmacognosy and Complementary Medicine), Title: J.M. Maitha [2014]. Determination of withaferin A content of root, stem and leaf extracts of *Withania somnifera* (L) Dunal collected in Kenya. MSc. Thesis 2014, University of Nairobi.

b) PhD (Pharmacognosy and Complementary Medicine), Title: J.M. Maitha [Ongoing]. The effect of agronomical features on withaferin A from root extracts of *Withania somnifera* (L) Dunal cultivated in Kenya , (University of Nairobi)

- c) **Maitha M J [2018]**. Determination and comparison of the effect of different seed priming methods on germination and seedling growth of *Withania somnifera* (University of Nairobi).
- d) **Maitha M J [2018]**. Determination of the comparative effect of different fertilizers sources on growth, yield and root quality of *Withania somnifera* (University of Nairobi).
- e) **Maitha M J [2018]**. Evaluation of how withaferin-A content of the root of *Withania somnifera* varies with age and agronomical growth conditions (University of Nairobi).

- f) **Maitha M J [2018].** Determination of the optimum agronomical conditions for the cultivation of *Withania somnifera* (University of Nairobi).
- g) **Maitha M J, Kelvin K N, [2019].** Phytochemical screening and investigation of antibacterial activity and resistance patterns of *Tagetes minuta* leaf extract
- h) **Maitha M J, Laila A K, [2019].** Preparation and formulation of Pumpkin seed granule nutraceutical for the management of worm infestation.
- i) **Maitha M J, Ikol M, [2019].** Investigation of phytochemicals contained in *Salvia Hispanica*.
- j) **Maitha M J, Lily W M, [2019].** Investigation of the influence of socioeconomic factors on ibuprofen abuse among patients visiting community pharmacy in Nairobi, Kenya.
- k) **Maitha M J, Mohamud K N, [2016].** Evaluation of the phytochemistry and antimicrobial activity of extracts of *Nigelia sativa* (Ranunculaceae) seeds.
- l) **Maitha M J, Anne B M, [2016].** Phytochemical screening and investigation of antimicrobial activity of *Solanum incanum*.
- m) **Maitha M J, Ngotho J M [2014].** Phytochemical screening and antimicrobial activity of *Persea americana* seed extracts.
- n) **Maitha M J, Ivy N O, [2014].** Phytochemical screening and antimicrobial activity of crude extract of *Catha edulis* (Khat).
- o) **Maitha M J, Kasina P [2014].** Evaluation of the prevalence and attitudes of complementary alternative medicine use among patients with diabetes mellitus in Rift Valley Provincial Hospital, Nakuru.
- p) **Maitha M J, Kariuki A K [2013].** To qualitatively and quantitatively determine the label claim of various amoxicillin brands in the market by using HPLC assay method by comparison with standard amoxicillin U.S.P.
- q) **Maitha M J, Rotich K J, [2014].** Evaluation of the incidence, prevalence and therapeutic management of breast cancer patients at Moi Teaching and Referral Hospital, Eldoret
- r) **Maitha M J, Beryl A O, [2014].** Patterns of antibiotic use in the treatment of urinary tract infections at Kenya Medical Training Clinic, Nairobi

- s) **Maitha M J, Oyuga A R, [2013].** Correlation between dispensing instructions and actual medication use practices at the household level in Seme East Division of Kisumu

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- t) **Maitha M J, Owako W O, [2013].** Prevalence and management of adverse drug effects associated with antiretroviral therapy on HIV-infected adult patients in Defence Forces Memorial Hospital.

11.0. REFERENCES

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