

CURRICULUM VITAE

PERSONAL BACKGROUND

Name: Isaac Mpapuluu Ole-Mapenay
Nationality: Kenyan
Marital status: Married
Date of birth: 18 th April 1966
Place of birth: Meto, Kajiado Central District (Kajiado County)
Religion: Christian (Anglican)
Profession: Veterinary Surgeon/ University Lecturer

Bussiness Address: University of Nairobi,
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EDUCATION BACKGROUND

Meto Primary school; 1973-1979; C.P.E, (A A A ;36 Points)
Oloitokitok Secondary school; 1980 -1983; K.C.E Division I
Nakuru High School; 1984 -1985; K.A.C.E 3 PRINCIPAL PASSES
University of Nairobi; 1987-1991; Bachelor of Veterinary Medicine (BVM)
University of Nairobi; 1991 - 1994 Master of Science (Pharmacology & Toxicology)
University of Nairobi; 2002-2006; Doctor of Philosophy (Pharmacology)

SHORT COURSES

Precision Instrument Development Centre (PIDC),Taiwan (Republic of China).
Oct - Dec.1993; Diploma in Scientific Instrument technology
University of Edinburgh, Scotland; August 1998. Certificate-Scientific communication
KETRI/ ITDG. June 1999. Certificate-Participatory Research Appraisal and Gender and

Stakeholder analysis.

CAREER DEVELOPMENT

March 2011- Intellectual Property Champion for College of Agriculture and Vet Sciences, UON

Dec 2008 – To date; Section Head, Pharmacology and Toxicology, PHPT, UON

Nov 2003- To date; Lecturer, Pharmacology & Toxicology, UON

2003- To date; BSc in Wildlife Sciences Co-ordinator, Dept of PHPT, UON

2002-2004; Assistant Section Head, Pharmacology & Toxicology section and Over-all Co-ordinator, Module II Programmes, Dept of PHPT, UON

1999- 2002; Assistant Lecturer Dept. of Public Health, Pharmacology & Toxicology, University of Nairobi.

1997-1999; Research officer/ Research Scientist, KETRI (Biochemistry/ Pharmacology Divisions)

1996 -1997; Senior Medical Sales Representative (Eli-Lilly & Co., SSA).

1994-1995; Medical Sales Representative (Eli-Lilly & Co., SSA).

1986-1987; Temporary Teacher, Kajiado Central Secondary School.

DUTIES AND RESPONSIBILITIES

- Teaching undergraduate students (3-5th year) clinical Pharmacology, Toxicology and Therapeutics
- Postgraduate students (Msc) Advanced Pharmacology, Advanced Toxicology (Faculty of Vet Medicine) and Food Toxicology (Food Science and Technology, Faculty of Agriculture). MSc in Bioprospecting and Value Chains course Co-ordinator
- Post graduate research supervision-
- Carry out research on antimicrobial resistance in human, primates and food animals, antimicrobial usage in food animals and food safety.
- Co-ordination and teaching Programmes for BSc in Biomedical Technology, BSc in Biochemistry and Bsc in Wildlife and related options.
- Supervise Teaching and Technical staff in the section (teaching, examination and consultancy services)

TRAINING AND RESEARCH ACTIVITIES

1. Agar diffusion and broth dilution (MIC) microbiological assay for antibiotics.
2. Experimental infection models & Drug trial protocols (Efficacy, potency, clinical drug trials and safety/ toxicity)

3. Pharmaco-epidemiology of trypanocidal and antimicrobial resistance in Kenya.
4. Pharmacokinetic drug modelling techniques
5. Application and troubleshooting of scientific instruments:
 - High performance liquid chromatography (HPLC)
 - Gas chromatography (GC),
 - Atomic Absorption Spectroscopy (AAS)
 - Inductive coupled plasma (ICP)
 - Infra Red spectroscopy (IS)
 - Electron Microscopy (EM)
 - Nuclear Magnetic Resonance (NMR)
6. Molecular biology techniques;
 - DNA Plamid isolation and Profiling
 - Polymerase Chain Reaction (PCR)-DNA fingerprinting
7. Antimicrobial assay levels in animal tissues using HPLC analysis
8. Toxicity testing using laboratory animal models
Acute (LD 50), Skin sensitivity, eye irritation, allergenity tests

INTERNATIONAL HONOURS AND AWARDS

Marquis 21st Century edition of **Who is Who in the World**.(2002-2008)

Who is Who in Science and Engineering (2003 -2007)

Consulting Editor (Honorary), **American Biographical institute** (2003-2007).

2000 Outstanding Scientists Award of the **International Biographical Institute**, Cambridge, England (2005).

Member of the electronic working group (Task force) and Intergovernmental Ad hoc committee of the Codex Alimentarius
Committee of **WHO/ FAO** on Genetically Modified Foods.

RESPONSIBILITIES IN PROFESSIONAL AND PUBLIC AFFAIRS

Chairman, East African Portland Cement Company (February 2012- to date)

Chairman, Board of Governors, Masai Technical Training Institute (Sept 2011-to date)

Member, Technical working group on Tsetse and Trypanosomosis Control and Eradication strategy in Kenya (Nov 2009-2011)

Member, Technical working group on National Bioprospecting Policy and Strategy, KWS (2010- 2011)

Member, Board of Governors, Maasai Technical Training Institute, Kajiado (2009 - to date)

Member, Biotechnology Technical committee, Kenya Bureau of Standards (2006- to date)

Treasurer and Executive committee member, University Academic Staff Union (UASU)- UON Chapter (2005- 2008).

Member, District Education Board (DEB)- Kajiado District (2004-2009).

Chairman, Board of Governors, Kiluani New Life Secondary School, Kajiado (2004- 2010).

Presiding Officer of the Electoral Commission of Kenya; 1992- '97 and 2002 General elections and 2005 National Referendum on Constitutional Review.

PUBLICATIONS

Ole-mapenay, I.M. (1994). Influence of *Pasteurella haemolytica* pneumonia in goats on the pharmacokinetic profile of doxycycline. *MSc Thesis*, University of Nairobi.

Ole-Mapenay, I.M and Mitema, E.S. (1995). Some pharmacokinetics of doxycycline in small East African goats after intramuscular administration of a long acting formulation. *Vet.Res.Comm.19*; 425-432.

Ole-Mapenay, I.M., Mitema, E.S and Maitho, T.E. (1997). Aspects of pharmacokinetics of doxycycline in healthy and pneumonic goats. *Vet. Res. Comm.* 21(6) :453-462.

Ole-Mapenay, I.M. and Mitema, E.S. (1997). Efficacy of doxycycline in a goat model of *Pasteurella* Pneumonia. *Journal of South Africa Vet. Association* 68 (2):55-58.

Murilla G.A, **Ole-Mapenay I.M**, and Godiah L.M. (1998). Trypanocidal drug use in selected trypanosomes endemic areas in Kenya: a survey. *Proceedings of the 7th Ketri Annual Internal Scientific Review on 22nd - 26th June 1998, No. 66 Pp 28.*

Maichomo, M.W, Mwendia C.M.T and **Ole-Mapenay, I.M.**(1998). Tsetse and trypanosomosis dynamics at Nguruman for the period July 1997 to May 1998. *Proceedings of the 7th Ketri Annual Internal Scientific Review on 22nd - 26th June 1998, No. 66 Pp 14.*

Maichomo, M.W, Mwendia C.M.T and **Ole-Mapenay, I.M.**(1998). Adaptability of Maasai Zebu/Orma boran calves raised in a trypanosomosis endemic region. *Proceedings of the 7th Ketri Annual Internal Scientific Review on 22nd - 26th June 1998, No. 66 Pp 21-22.*

Maichomo, M.W; Mwendia, C.M.T. and **Ole-Mapenay, I.M.**(2000). Preliminary analysis on the performance of the Orma bull, a trypanotolerant breed at Nguruman. *Proceedings of the Commonwealth Veterinary Association for East, Central and Southern Africa held on 20th – 23rd April 1999, Kenyan Veterinarian.* Vol. 23: 129-131.

Njiru, Z.K., **Ole-Mapenay, I.M.**, Ouma, J.O., Ndung'u, J.M.and Olaho-Mukani, W. (2000). Prevalence of trypanosomosis in camel calves: A pilot study in Laikipia District of Kenya. *Revue*

Elev. Med. Vet. Pays trop., 53: 183-186.

Maichomo, MW, Olubai, W, Mwendia CMT and **Ole-Mapenay, IM**. (2000). Farmer responses on acceptability of the Orma boran, a trypanotolerant breed of cattle introduced into Nguruman, Kajiado District in Kenya. *ISCRTC* publication No. 120 .Pp 293-295.

Njiru, ZK, Bett, B, **Ole-Mapenay, IM**, Githiori, B and Ndun'gu, JM. (2002). Trypanosomosis and helminthosis in Camels: Comparison of ranch and traditional camel management systems in Kenya. *J Camel Pract. Res.* 9(1), 67-71

Miaron, J.O. and **Ole-Mapenay, I.M.** (2004). Maasai ethnoveterinary: an avenue for anthelmintic biosprosecting. *Proc. Fac. Vet. Med. Scientific conf. Kenya Veterinarian* Vol. 6: 34-36

Miaron, J.O., Wahome, P.G. and **Ole-Mapenay, I.M.** (2005). Anthelmintic activity of *Withania somnifera* L. Dunal water extract in sheep. *The East and Central African Journal of Pharmaceutical Sciences.* Vol. 8: 6-9.

Maichomo, M.W. Ndungu, J.M., Ngare, P.M. and **Ole-Mapenay, I.M.** (2005). The performance of Orma Boran and Maasai Zebu crossbreeds in a trypanosomosis endemic area of Nguruman, south western Kenya. *Onderstepoort Journal of Veterinary Research*, 72:87-93.

Ole-Mapenay, I.M., Mitema, E.S. Kikuvi, G and Ombui, J.N. (2006). Epidemiology of Multi-drug resistant *E. coli* isolates from healthy food animals in Kenya. *Proc. Biannual conf Fac Vet Med. Kenya Veterinarian.* Vol.1. 23-25.

Kikuvi, G.M., **Ole-Mapenay, I.M.**, Mitema, E.S. and Ombui, J.N. (2006). Antimicrobial resistance in *Escherichia coli* isolates from faeces and carcass samples of slaughtered cattle, swine and chickens in Kenya. *Israel Journal of Veterinary Medicine.* Vol 61:3-4.

Ole-Mapenay, I.M and Maichomo, MW. (2006). Epidemiology of diminazene aceturate and isometamidium chloride resistance in Transmara District of Kenya. *Proc. Fac. Vet. Med. Scientific Conf. Kenya Veterinarian* Vol. 2 17- 19.

Ole-Mapenay, I.M. (2007). Studies on antimicrobial consumption and occurrence of antimicrobial resistance in *Escherichia coli* from food animals in Kenya and Public health implications. PhD Thesis, University of Nairobi.

Referees

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