

CURRICULUM VITAE (26/03/2013)

Dr. JOSEPH. M. NGUTA (B.V.M., MSc., PhD, Post Doctoral Fellow-UON)

Current Address:

Department of Public Health, Pharmacology and Toxicology,
Faculty of Veterinary Medicine,
College of Agriculture and Veterinary Sciences,
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EXTRACURRICULAR ACTIVITIES

Co-ordinator/InchargeDepartmental (PHPT)

Examinations

Co-ordinatorAFN 205: Food Toxicology

Co-ordinatorFST4: Food Toxicology

Co-ordinatorHBC 311: Biochemical Pharmacology

PERSONAL PROFILE

**Lecturer, Pharmacology and Toxicology.....Department of Public Health,
Pharmacology and Toxicology, Faculty of Veterinary Medicine, University of Nairobi.**

Duties and responsibilities

Lecturing undergraduate students undertaking the following courses: Bachelor of Veterinary Medicine; Bachelor of Science in Biomedical Technology; Bachelor of Science in Wildlife Management; Diploma in Animal Health; Bachelor of Science in Food Nutrition and Dietetics and Bachelor of Science in Medical Biochemistry students topics in Basic and Clinical Pharmacology and Toxicology, organization of practical classes and conduct of tutorials in the area of Pharmacology and Toxicology and any other duties assigned to me by the Departmental head from time to time.

Career Aspiration

To excel in Academia, Research and in the Practice of Veterinary Medicine, while upholding the ethics and dignity of the Veterinary Profession.

EDUCATIONAL BACKGROUND

Post Doctoral Fellow (PHARMACOLOGY&TOXICOLOGY) -----UNIVERSITY OF NAIROBI-----January 2012 to date.

Post Doc focus: Formulation of safe, efficacious Phytomedicines against Protozoal diseases.

PhD (PHARMACOLOGY&TOXICOLOGY) -----UNIVERSITY OF NAIROBI-----January 2009 to September 2011 (Graduated on 09/09/2011).

Thesis focus: Ethnopharmacology/Pharmacology and Toxicology of Phytomedicines

MSc. (PHARMACOLOGY&TOXICOLOGY) -----UNIVERSITY OF NAIROBI-----2007

Thesis focus: Nutritional Pharmacology/Toxicology/Mineral Metabolism.

(From October/November 2004 to 07th September 2007)

BACHELOR OF VETERINARY MEDICINE----UNIVERSITY OF NAIROBI----2000

(From October 1995 to 27th November, 2000)

EMPLOYMENT HISTORY AND RESEARCH EXPERIENCE

Lecturer, Department of Public Health, Pharmacology and Toxicology (PHPT), University of Nairobi.....22nd June, 2012..... To date

Tutorial Fellow, Department of Public Health, Pharmacology and Toxicology (PHPT), University of Nairobi.....29th Oct. 2008 to 21/06/2012

Lecturer-----Nairobi Technical Training Institute-----3rd September, 2007 to 29th oct.2008.

Lecturing diploma in pharmacy student's topics in clinical pharmacology and therapeutics, supervision of dissertations for award of diploma in pharmacy certificate, examination of diploma projects in the area of pharmacy on behalf of Kenya National Examinations Council, organization and conduct of practicals, tutorials, demonstrations, administration and moderation of exams in the area of clinical pharmacology and therapeutics. Undertaking any other assignment given to me from time to time by the departmental head.

Research Assistant --Dept. of Public Health, Pharmacology and Toxicology, University of Nairobi, Kenya (UON) 2006-2007

- Work involved management of trial animals, collection of blood samples, analyzing blood samples, information handling and technical bench work.
- Report writing

Private Veterinary Practitioner-----Kangundo Vet. Services, Kenya-2001-September 2004

Responsibilities:

Duties:

- Daily management of an Agro-Vet
- Handling of clinical cases in bovine, shoats and equidae
- Routine veterinary work (such as vaccinations)
- Extension Services to farmers
- Report writing and submission to the Veterinary office.

SPECIAL SKILLS, QUALITIES AND EXPERIENCE GAINED

- Excellent communication skills, both written and verbal
- Well experienced in teaching clinical Pharmacology and Therapeutics.
- Experienced in writing scientific proposals and reports
- Good laboratory and research management skills
- Computer literate: conversant with MS-Word, MS-Excel, MS-Powerpoint, Internet

RESEARCH INTERESTS

I have a keen interest in:

- Toxicological and Pharmacological evaluation of Botanical Medicines
- Safety Assessment of Phytomedicines and Pharmacovigilance
- Trace elements in pastures and biological tissues
- Bioinformatics/Molecular targets for drug research and development
- Infection biology/Malaria chemotherapy using Herbal Remedies
- Ethno pharmacology as an interdisciplinary science

BOOK(S) PUBLISHED

Title: Essential trace elements

Essential Trace Elements In Human and Animal Health

ISBN-NR: 978-3-8433-7174-2

Publisher: Lambert Academic Publishing (LAP)

ACADEMIC PUBLICATIONS

1. **J.M. Nguta.** Ethnopharmacology and Toxicology of Antimalarial Plants used traditionally in Msambweni, Kenya (**PhD Thesis, University of Nairobi, 2011**).
2. **J.M. Nguta.** Evaluation of trace element status in pasture grasses in various regions in Kenya (**MSc Thesis, University of Nairobi, 2007**).

ARTICLES PUBLISHED IN PEER REVIEWED SCIENTIFIC JOURNALS

1. M.F.Musila, S.F.Dossaji, **J.M.Nguta**, C.W.Lukhoba, J.M.Munyao. *In vivo* antimalarial activity, toxicity and phytochemical screening of selected antimalarial plants. **Journal of ethnopharmacology** 146 (2013) 557-561
2. **J.M. Nguta**, J.M. Mbaria, D.W.Gakuya, P.K.Gathumbi, J.D. Kabasa, S.G.Kiama. Cytotoxicity of antimalarial plant extracts from Kenyan biodiversity to the brine shrimp, *Artemia salina* L.

(Artemiidae). **Drugs and Therapy Studies 2012; volume 2:e12**

3. **J.M. Nguta**, J.M. Mbaria, D.W.Gakuya, P.K.Gathumbi, J.D. Kabasa, S.G.Kiama. Evaluation of Acute Toxicity of Crude Plant Extracts from Kenyan Biodiversity using Brine Shrimp, *Artemia salina* L. (Artemiidae). ***The Open Conference Proceedings Journal*, 2012, 3, 30-34**

4.Gakuya DW, Mbaria JM, Kiama SG, Gathumbi PK, Mathiu M, **Nguta JM**. Ethnoveterinary Medicine: The Prospects of Integrating Medicinal Plant Products in Veterinary Medicine in Kenya. **Kenya Veterinarian 35 Issue 2 (2011). Pp. 67-76**

5. **J.M. Nguta**, J.M. Mbaria, D.W.Gakuya, P.K.Gathumbi, J.D. Kabasa, S.G.Kiama. Biological screening of Kenyan medicinal plants using *Artemia salina* L. (Artemiidae). ***Pharmacologyonline* 2: 458-478 (2011)**

6. **J.M. Nguta**, J.M. Mbaria, D.W.Gakuya, P.K.Gathumbi, J.D. Kabasa, S.G.Kiama. Ethnodiagnostic skills of the Digo community for malaria: A lead to traditional bioprospecting. ***Frontiers in Pharmacology*. (2011) Vol. 2: 30. Doi: 10.3389/fphar.2011.00030**

7. **J.M. Nguta**, J.M. Mbaria. Bioavailability of Cobalt, Zinc and Selenium and Anthelmintic effects of fortified and non-fortified albendazole in sheep. **Kenya Veterinarian 35 Issue 1(2011). Pp 9-17**

8. **J.M. Nguta**, J.M. Mbaria, D.W.Gakuya, P.K.Gathumbi, S.G.Kiama. Traditional antimalarial phytotherapy remedies used by the South Coast community, Kenya. ***Journal of Ethnopharmacology*, 131(2010) 256-267**

9. **J.M. Nguta**, J.M. Mbaria, D.W.Gakuya, P.K.Gathumbi, S.G.Kiama. Antimalarial herbal remedies of Msambweni, Kenya. ***Journal of Ethnopharmacology* 128(2010) 424-432**

MANUSCRIPTS UNDER PREPARATION

1. Nguta, J. M, Mitema, E and Mbaria, J.M: Trace element bioavailability in dopper castrates. ***Journal of Animal physiology and animal Nutrition***

2 .Nguta, J. M, Mitema, E, Mbaria, J.M and Kanja L: Levels of Zinc in pastures in various regions in Kenya. ***Research in Veterinary Communications***.

PAPERS PRESENTED IN CONFERENCE PROCEEDINGS

1. Antimalarial activity of some plants traditionally used in treatment of malaria in Msambweni district, Kenya, **In: The Proceedings of a RISE AFNNET workshop-University of Nairobi Node in KCB Karen, Nairobi, during 26th -27th October 2012.**

2. Efficacy, Safety and Phytochemical Screening of Selected Antimalarial Plants from Kenya. Presented as a **Session lecture (SL) In: The 13TH International Symposium on Natural Product**

Chemistry and Related Biological Sciences, International Centre for Chemical and Biological Sciences (ICCBS), **University of Karachi, Pakistan** during September **22-25, 2012**.

3. Spectroscopic determination of cobalt and copper in grass pastures in Kabete, Kenya. Presented as a **poster presentation In:** The 4th International Toxicology Symposium in Africa, held at Samora Machel School of Veterinary Medicine, University of Zambia from **2nd to 4th September, 2012**.

4. Natural products: An exciting source of new pharmacophores against malaria. Presented as an **oral presentation In:** The **8th** Biennial Scientific Conference and the **46th** Kenya Veterinary Association Annual Scientific Conference held at **Safari Park Hotel, Nairobi, Kenya, from 25th to 27th April 2012**.

5. Cytotoxicity of antimalarial plant extracts from Kenyan Biodiversity to the Brine Shrimp, *Artemia salina L.* (Artemiidae). Presented as a **Session lecture (SL) In:** The 4th International Conference on Drug Discovery and Therapy (**4th ICDDT**) **2012**, at Dubai men's college, Dubai, United Arab Emirates, February **12th-15th, 2012, Dubai, UAE**.

6. *Plants as source of drugs:* Ethnopharmacology, Pharmacology and Toxicology of selected antimalarial herbal plants from Msambweni district, South coast Kenya. In: The Proceedings of a RISE AFNNET workshop-University of Nairobi Node in **Chak Guest House, Nairobi**, on **13th December 2011**.

7. Biological screening of Kenyan antimalarial plant extracts in brine shrimp bioassay. In: The first international congress on Human-Animal Interface (ICOPHAI): Impact, Limitations and Needs in Developing Countries in the United Nations Conference Centre, **Addis Ababa, Ethiopia** from September **12th to 18th, 2011**, sponsored by USDA/APHIS in collaboration with Ohio State University.

8. Exploiting Natural Products from African Biodiversity in Pest Management: from Extraction of Plant chemicals to Expression in GMOs. In: The proceedings of a continuous professional development (CPD) workshop on, "**Advances in pest management and the role of veterinarians**" organized and held at the **Department of Public Health, Pharmacology and Toxicology on 16/09/2011**.

9. Toxicity of crude plant extracts and antitumour drugs in the Brine Shrimp Bioassay. In: The Proceedings of the **Ist** International Scientific Conference, College of Health Sciences, University of **Nairobi, Kenya** during **June 15-17th, 2011**. (Poster No. 42).

10. Natural products from plant biodiversity and malaria: In: The 12TH International Symposium on Natural Product Chemistry and Related Biological Sciences, International Centre for Chemical and Biological Sciences (ICCBS), **University of Karachi, Pakistan** during November **22-25, 2010**.

11. Development of ethnomedicines for management of malaria in Msambweni district, Kenya: In: The Proceedings of a Workshop on Regional Networks in Africa, held on October **5-6th, 2010** at the Kopanong Hotel and Conference Centre in Benoni, **South Africa, near Johannesburg**.

12. Ethnodiagnostic Skills of the Digo Community for malaria: A lead to traditional bioprospecting?: In: The Proceedings of the 1st East and Central Africa Regional Symposium for the Carnegie-RISE Fellows held on September 15th, 2010 at **Royale Imperial Hotel, Kampala-Uganda, East Africa.**

13. Bioavailability of cobalt and anthelmintic effects of albendazole fortified with cobalt (Vermitan super) in sheep: In: The Proceedings of the 7th Biennial Scientific Conference, held on September 8th To 10th, 2010 at the **Department of Public Health, Pharmacology and Toxicology Auditorium, Upper Kabete Campus.**

14. Spectroscopic determination of cobalt and copper in grass pastures in Kabete: In: The Proceedings of the 7th Biennial Scientific Conference held on September 8th To 10th, 2010 at the **Department of Public Health, Pharmacology and Toxicology Auditorium, Upper Kabete Campus.**

15. Presented a paper entitled “**THERAPEUTICS OF EAST COAST FEVER: EXPERIENCES AS A FIELD VETERINARIAN**” on a stakeholders workshop to discuss a proposal on medicinal plants extracts evaluation and commercialization for improved livelihoods; a case study of east coast fever, **in Njoro campus, Egerton University on 15th to 18th February, 2007.**

16. A Powerful cure for cancer and other “incurable” diseases: In: The fifth Biennial Scientific Conference of the Faculty of Veterinary Medicine, **University of Nairobi. 6-8th September 2006. pp 26.**

17. Determination of trace element status in pasture grasses in various regions in Kenya: In: The fifth Biennial Scientific Conference of the faculty of Veterinary Medicine of the **University of Nairobi. 6-8th September 2006, pp 3.**

WORKSHOPS ATTENDED

1. Attended a workshop organized by the US Department of State Biosecurity Engagement Program in Collaboration with the International livestock Research Institute at ILRI campus, Nairobi, Kenya from **1st October to 5th October, 2012**; whose theme was: **Working with Animals and Animal Vectors (Ticks) under containment level I, II and III.**

1. Attended a workshop organized by Regional Initiative in Science and Education (**RISE**) in Kampala, Uganda from **13th October to 15th October, 2011**; whose theme was: **Integration of Science and Technology Networks in National and Regional Development.**

2. Attended the 14th Natural Products Research Network for East and Central Africa (NAPRECA) Symposium and Association for African Medicinal Plants Standards (AAMPS) Ethnoveterinary Medicine Symposium **from 8th to 12th August 2011** at the International Center for Insect Physiology and Ecology (ICIPE) Kasarani, Nairobi, Kenya; whose theme was: **Natural Products**

from African Biodiversity.

5. Attended workshop on Forensic Veterinary Science, organized by the Department of Veterinary Pathology, Microbiology and Parasitology on: Wednesday, **18th May, 2011**.
6. Attended ODEL sensitization and orientation workshop, held at the Department of Public Health, Pharmacology and Toxicology on **3rd March, 2011**.
7. 12TH International Symposium on Natural Product Chemistry and Related Biological Sciences, International Centre for Chemical and Biological Sciences (ICCBS), University of Karachi, Pakistan during November 22-25, 2010
8. Workshop on Regional Networks in Africa held on October 5-6th, 2010 at the Kopanong Hotel and Conference Centre in Benoni, South Africa, near Johannesburg.
9. 1st East and Central Africa Regional Symposium for the Carnegie-RISE Fellows held on September 15th, 2010 at Royale Imperial Hotel, Kampala-Uganda, East Africa.
10. Regional PhD students Proposal Writing Workshop between 9-14 August 2010, at the Green Belt Movement Centre, Karen, Nairobi.
11. Alternatives to use of Animals in Experiments in Education and Training, 23rd-24th September 2009, Nairobi-Kenya.
12. 2nd Pharmacogenomics Workshop “Pharmacogenetics of Drug Metabolism: Clinical Pharmacogenetics-towards individualized treatment” 22nd-26th June 2009, PanAfric Hotel, Nairobi, Kenya.
13. Attended a workshop on: Performance Enhancement Strategies Course held on 31st January 2009 at Central Catering Unit: Organized by the Faculty of Veterinary Medicine, University of Nairobi and the Empowerment Resource Technologies Limited.
14. Attended a stakeholders workshop to discuss a proposal on medicinal plants extracts evaluation and commercialization for improved livelihoods; a case study of east coast fever, in Njoro campus, Egerton University on 15th to 18th February, 2007.
15. Attended a workshop on E-resources training for faculties of Veterinary Medicine and Agriculture on 17/03/2010
16. Attended a stakeholder’s workshop on curriculum development in natural products technology and value chain management at KCB training centre, Karen between 6-8th/12/2009.
17. Attended E-learning course for academic staff members, Faculty of Veterinary Medicine at Chiromo Campus between 1-5th /03/2010.
18. Pharmacogenetics of Drug Metabolism – Nairobi, Kenya 24th –28th August 2003
19. Attended PhD Research Support Systems workshop held between 8th and 9th July, 2010 at the

Clinical Studies Department seminar room.

20. Presented a paper titled “Bioavailability of Cobalt and anthelmintic effects of albendazole fortified with Cobalt (Vermitan super) in sheep at the 44th Kenya Veterinary Association Annual Scientific Conference at Almond Resort, Garissa.

STUDENTS UNDER SUPERVISION (MSc and Ph.D.)

A). DOCTOR OF PHILOSOPHY (Ph.D.)

1. JOSEPH KISIVO MUSAU, Dept. of PHPT: Study title: “Pharmacology, Toxicology and Phytochemical analysis of selected antimalarial plants in Kenya” From **18th April 2012 to date.**

B). MASTER OF SCIENCE (MSc.)

1. Mr. MUTIE MUSILA (I56/65121/2010), School of Biological Sciences: Study title: “Phytochemical Screening, *in vivo* Antimalarial Activity and Cytotoxicity of Selected Antimalarial Plants” From **22nd March 2011 to 2012 (Graduated on December, 2012).**

2. Dr. Isaac Mokaya Omwenga (J56/64950/2010), Dept. of PHPT: Study title: “An Assessment of pesticide and Heavy Metal Residues in inland Fish farming in Machakos and Kiambu Counties, Kenya” From **15th March 2012 to date.**

3. Mr. GEORGE GICHARU MWANGI (I56/61302/2010), School of Biological Sciences: Study title: “*In vivo* Antimalarial and Cytotoxic Effects of Selected Plant Extracts used in Kenya” From **15th December 2011 to 2012 (Graduated on December, 2012).**

4. Dr. David Njenga Ngugi (J56/69921/2011), Department of Public Health, Pharmacology and Toxicology: Study title: “Study of antimalarial activity, cytotoxicity and acute toxicity of *Zanthoxylum chalybeum* and *Vernonia lasiopus* Hoffman” From **1st June 2012 to date.**

5. Murithi Caroline Kathambi (I56/69310/2011), School of Biological Sciences: Study title: “Antimalarial activity, acute toxicity and Phytochemical Screening of Selected Antimalarial plants” From **1st April 2012 to date.**

6. Mr. Ochora Onger Douglas (I56/70222/2011), School of Biological Sciences: Study title: “Antimalarial activity, acute toxicity and Phytochemical Investigations of Plant extracts from Kenyan Biodiversity” From **2nd March 2012 to date.**

THESIS EXAMINED

A). MASTER OF SCIENCE

1. MR. FREDRICK MUTIE MUSILA (I56/65121/2010)-BSc.Biology (School of Biological Sciences, University of Nairobi).

M.Sc Thesis Title: “*In vivo Antimalarial Activity, Cytotoxicity and Phytochemical Screening of Selected Antimalarial Plants*”. **Year of Examination: 2012.**

BOARD OF EXAMINERS MEETINGS ATTENDED

1. Attended Board of Examiners meeting for Mr. Mutie Musila’s M.Sc. thesis titled, “*In vivo Antimalarial Activity, Cytotoxicity and Phytochemical Screening of Selected Antimalarial Plants*” held on **Wednesday, 10/10/2012** in the School of Biological Sciences Seminar room.

UNDERGRADUATE STUDENT PROJECTS SUPERVISED TO COMPLETION

1. Comparative Study of Antimicrobial and Cytotoxic activity of *Pilliosigma thonningii* from two geographic regions, Malawi and Kenya, by: **Winchester M. David Mvula- Biomedical Technology (J38/21889/2007).**

AWARDS AND SCHOLARSHIPS

1. Awarded **Deans Committee Research Grant-2012-2013 of Kshs. 250,000** for research entitled, “Evaluation of Brine Shrimp Lethality and Antifungal Activity of *Zanthoxylum Chalybeum* Engl. Species”

2. Awarded a certificate for the *prestigious reviewer* for the Diabetes and Metabolism journal (A Pub-Med indexed, Peer Reviewed International Journal) in 2011, for scoring 4, 4, 3, 3 for reviewing quality, suggestions to author, justified decisions and exemplary time lines respectively with a total scientific credits of 4 (out of a possible 5) by the OMICS Publishing Group, An Open Access Publisher and Scientific Events Organizer for the Advancement of Science and Technology. (www.omiconline.org)

3. Post-Doctoral Research Fellowship awarded by the Carnegie Corporation of Newyork through Regional Initiative in Science and Education-African Natural Products Network (RISE-AFNNET) to do my Post-doctoral studies in Natural Products. This scholarship was awarded on December, 2011.

4. Awarded a travel grant (of \$ 1000 USD) by the US Department of Agriculture, Animal and Plant Health Inspection Services (APHIS) and Batelle Endowment for Technology and Human Affairs (BETHA) to present an oral talk at: The First International Congress on Pathogens at the

Human-Animal Interface (ICOPHAI) in Addis Ababa, Ethiopia, from 14th to 18th September 2011.

5. PhD Fellowship awarded by the Carnegie Corporation of New York through Regional Initiative in Science and Education (Carnegie-AIS-RISE) natural product network to do my PhD studies in Natural Products. This scholarship was awarded on February, 2009.

6. Grant by CEVA SANTE ANIMALE (FRANCE) to carry out a project on trace mineral bioavailability in small ruminants: This project led to the inclusion of cobalt, copper and zinc in the commonly used anthelmintic dewormers in those areas where trace element deficiencies were found.

7. Grant by CEVA SANTE ANIMALE (FRANCE) to do my master of science project/research: This project generated data that contributed to the better understanding of the trace element status in pasture grasses in various regions in Kenya. It also enabled the sponsor to disburse more funds for the second phase of the project which examined the bioavailability status of trace elements in biological tissues.

8. Higher Education Loans Board Scholarship (HELB) in collaboration with the University of Nairobi to study for a master of science degree (MSc): This scholarship led to the acquisition of my Master of Science degree in pharmacology and toxicology on the 7th day of September, 2007.

9. Government of Kenya Scholarship to study for my Bachelors degree in Veterinary Medicine (BVM): This scholarship culminated in the award of my bachelors degree in veterinary medicine on the 27th day of November, 2000.

FACULTY COMMITTEE MEMBERSHIP

1. Member, Faculty of Veterinary Medicine (FVM) Exhibitions and Show Committee
2. Member, Faculty of Veterinary Medicine Curriculum Committee

CONSULTANCIES

1. Participated in training of students from Thika Technical Training Institute in pharmacology theory and practicals from 23rd /02/2010 to 25th/02/2010 at the department of Public Health, Pharmacology and Toxicology

INTERNATIONAL ACADEMIC ASSIGNMENTS

Currently, I am a reviewer in six pub-med indexed international peer reviewed journals:

1. **Journal of Infection in Developing Countries (JIDC)**
2. **Mountain Research and Development Journal (MRD)**
3. **Indian Journal of Pharmacology (IJP)**
4. **International Journal of Biodiversity and Conservation (IJBC)**
5. **OMICS Publishing Group**
6. **Toxicological & Environmental Chemistry**

NATIONAL AFFILIATIONS

1. Registered member, Kenya Veterinary Board (KVB), Reg.No: **002066**.
2. Registered member, Kenya Veterinary Association (KVA).

INTERNATIONAL AFFILIATIONS

Member, International Society for Ethnopharmacology (**ISE**)

PERSONAL INFORMATION

NAME: Joseph Mwanzia Nguta
DATE OF BIRTH: 12th December, 1975
MARITAL STATUS: Married
GENDER: Male
NATIONALITY: Kenyan
LANGUAGES: English (fluent), Kiswahili

REFEREES

1. Dr. James M. Mbaria,
Senior Lecturer, Pharmacology and Toxicology,
Department of Public Health, pharmacology and Toxicology,
University of Nairobi,
P. O. Box 30197-00100, Nairobi, Kenya.
Cell: 0722 639 977
2. Prof. Peter K Gathumbi,
Chairman, Department of Vet. Pathology, Parasitology and Microbiology,
University of Nairobi,
P. O. Box 30197-00100, Nairobi, Kenya.
3. Dr. Stephen Gitahi Kiama,
Acting Director, Wangari Maathai Institute for Peace and Environmental Studies
University of Nairobi,
P. O. Box 29053 -00625 Kangemi,
Nairobi-Kenya.