2012 ANNUAL REPORT

1. Brief Introduction of the Department

The Department of Pharmacology and Pharmacognosy is one of the three departments within the School of Pharmacy, University of Nairobi. The Vision of the Department is to be a centre of excellence in teaching and biomedical research. The objectives of the Department are to teach Pharmacology and Pharmacognosy to undergraduate students of pharmacy; build capacity in traditional medicine and biomedical research through post-graduate training; to provide specialized clinical and laboratory services; and to carry out basic and applied medical research.

The Department has 16 members of academic staff with diverse areas of specialization. These are as follows: (3) Professors, (1) Associate Professor, (3) Senior Lecturers (5) lecturers and (4) tutorial fellows. In addition, the Department has a team of technical staff comprising of (1) Principal technologist, (1) Chief technologist, (2) Senior technologies and two technicians. Other staffs include a department secretary, (1) Junior Technologist, two animal attendants and (1) messenger. The Department has two sections i.e. Pharmacology and Pharmacognosy.

Location: The Department of Pharmacology & Pharmacognosy is strategically located at the Kenyatta National Hospital, Hospital Road of Ngong Road. For further information Contact: pharmacognosy@uonbi.ac.ke.

2. Courses Offered

a. Bachelor of Pharmacy.

b. Master of Science in Pharmacognosy and Complementary Medicine.

c. Master of Science in Pharmacoepidemiology & Pharmacovigilance. (M.Pharm Epivigil)

d. Master of Science in Molecular Pharmacology (MSc Mol. Pharmacology)
3. Enrolled students at both under graduate and post graduate
   a. Undergraduate over 300
   b. Postgraduate 25

4. International student Component: 1

5. Research activities Undertaken
   (i) Phytochemical and Pharmacological investigation of Acmella caulirhiza. Dr. K.A. Sinei.
   (ii) Neurotoxicity of Cassava Cyanogen analogues: Relevance to the pathogenesis of Konzo (Spastic Paraparesis). S.K. Thuo, Prof. C.K. Maitai, Dr. K.A. Sinei
   (iii) Evaluation of the medicinal properties and safety of a polyherbal product (NEFANG). Dr. G.A Agbor, Prof. A. N. Guantai, Dr. F. A. Okalebo.
   (v) Phytochemical Investigation and Anthelmintic Activity of Hegenia Abyssinica Dr. Esther Wamuyu Karumi
   (vi) Quality of Ginseng Products in the Kenyan Market Dr. Ronald Mwende Inyangala
   (vii) Gynandropsis gynandra on the haematological profile of lactating mothers Dr. Kefa O. Bosire
   (viii) Evaluation of the efficacy of selected Kenyan plants on wound healing. Dr. Lydia Magdaline Olieyo
   (ix) Comparative Study of the Artemisinin Content of Artemisia annua L. Cultivated in Kenya. Dr. Sarah W. Mwangi
   (x) Anti-malarial Activity of Annonaceae found in Kenya. Dr. Nelly N. Mungai
   (xi) Genetic Polymorphism of Drug Metabolizing Enzymes and Clinical Implications for Kenyan Populations. Dr. M.O. Oluka
   (xii) Clinical Response and pharmacokinetics of antiretroviral drugs in Kenyan HIV patients. Dr. M.O. Oluka.
   (xiii) Production of Carotenoids Dr. G. O. Osanjo.
6. **External and International Links and Collaborations**

   a. The Department has international links with Tianjin University of Traditional Chinese Medicine and Aibst of Zimbabwe.

   b. Dr. K. A. Sinei: Participated in Joint Workshop between The Kenya Medical Training College (KMTC) and The University of Nairobi in Development of Proposed KMTC Bachelor of Pharmacy Degree; Venue: Egerton University; Dates: 18\(^{th}\) – 22\(^{nd}\) March, 2012

   c. Dr. K.A. Sinei, External Examiner Kenyatta University.

   d. Prof. J. W. Mwangi External Examiner in Kenyatta University.

   e. Prof. J. W. Mwangi: External Peer Reviewer and Interview for Promotion of Associate/Professors, Masinde Muliro University of Science and Technology, July 2012, Kakamega.

   f. Prof. J. W. Mwangi: Assessment of promotion purposes for Kwame Nkrumah University of Sciences and Technology for Associate and Senior Lecturer, July 2012.

   g. Prof. J. W. Mwangi: Assessment for promotion purposes for University of Nigeria, Nsukka for Associate Professor May 2012.


   i. Dr. M. Oluka: Workshop to finalize the proposed KMTC/UON Bachelor of Pharmacy curriculum at Egerton Agricultural Resource Centre from 18\(^{th}\) – 22 March 2012.

   j. Dr. M. Oluka: facilitated the session on standardizing formats for curriculum and formatting of the final draft of UON/KMTC B.Pharm Curriculum.

   k. Dr. M. Oluka: KNH formulary review workshop at the Elementaita Country Lodge from 4\(^{th}\) – 6\(^{th}\) July 2012.

   l. Dr. M. Oluka: KNH formulary review Stakeholders Meeting at the Panafric Hotel on Friday 26\(^{th}\) October 2012 from 8.30 am to 4.00 pm.

   m. Dr. F. A. Okalebo: Kenyatta National Hospital Formulary Review Committee – date of appointment 30\(^{th}\) March, KNH/PHARM/18\(^{th}\) November to 15\(^{th}\) December, 2012:

   n. Dr. F. A. Okalebo: 2\(^{nd}\) May to 15\(^{th}\) June, 2012: Item Writing, administration and Marking of May/June 2012 Series of Pharmacy and Poisons Board Pre-registration examinations.
7. Publications


8. Consultancies

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<thead>
<tr>
<th>No.</th>
<th>Name of Staff</th>
<th>Type of consultancy</th>
<th>Place</th>
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<tbody>
<tr>
<td>1.</td>
<td>Prof. C.K. Maitai</td>
<td>Member - Pest Control Product Board (PCPB)</td>
<td>Pharmacy and Poisons Board, Nairobi</td>
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<tr>
<td></td>
<td></td>
<td>Editor, Est African Journal of Pharmaceutical Sciences</td>
<td>School of Pharmacy, UoN</td>
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<td></td>
<td>Chairman - Technical and Registration Committee of PCPB.</td>
<td>Nairobi</td>
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<td>3</td>
<td>Prof. Julius Mwangi</td>
<td>Intellectual Property Coordinator</td>
<td>University of Nairobi</td>
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<td>4</td>
<td>Prof. G. Muriuki</td>
<td>Chairman, Training and Assessment Committee</td>
<td>Pharmacy and Poison Board - Nairobi</td>
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<td>Member of Academic Board – Kenya Institute of Education (KIE)</td>
<td>KIE Nairobi</td>
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<td></td>
<td>Pharmacognosy Section: Prof. J. W. Mwangi, Dr. E. Karumi, Dr. N. Mukungu, Mr. Josephat Mwalukumbi</td>
<td>Interview and screening of herbalists for purposes of issuance of certificates for practice under the Ministry of Culture and Social Services.</td>
<td>Mitishamba Lab, Dept. of Pharmacology &amp; Pharmacognosy, UoN</td>
</tr>
<tr>
<td>5</td>
<td>Prof. A.N. Guantai</td>
<td>Setting and moderation of the registration examination for degree and Pharmacy and diploma holders.</td>
<td>Pharmacy and Poisons Board</td>
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<td>Chairman</td>
<td>Pesticides Control Board</td>
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<tr>
<td>7</td>
<td>Dr. G.O. Osanjo</td>
<td>Member of CEBIB Board</td>
<td>College of Biological and Physical</td>
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9. Graduands

1. M.Sc. Students in Pharmacognosy and Complementary Medicine. - 1

2. PhD - 1


(iii) Dr. M. Oluka: Annual review meeting 2012 of the University of Nairobi STD/AIDS collaborative group at Mayfair Court Southern Sun, Nairobi from Mon 23rd Jan – Fri 27th 2012. Presented a paper entitled: Cyp2b6 pharmacogenetics and nevirapine clinical outcomes in HIV-1 seropositive Kenyan women receiving antiretroviral therapy.


Approved by Chairman:------------------------------------  Date:---------------------------------