INTRODUCTION
The Department of Public Health, Pharmacology and Toxicology (PHPT) is one of the five academic departments in the Faculty of Veterinary Medicine. It offers training, research and consultancy services in the following areas:
Veterinary Public Health, Epidemiology, Food Hygiene (meat, milk and eggs), Meat Inspection, Zoonoses, Water Hygiene, Food Microbiology, Food Safety and Quality Assurance, Livestock Economics and Business Management, Pharmacology and Toxicology of Veterinary Drugs and Natural Products. Teaching takes place in the Department for both undergraduate and post graduate programs.

The Department is located at the College of Agriculture and Veterinary Sciences (CAVS), Upper Kabete Campus of the University of Nairobi. It comprises of two sections:
- Public Health Section
- Pharmacology and Toxicology Section

ACADEMIC PROGRAMMES

Undergraduate training:
The department offers the following courses to undergraduate students studying for the following Bachelor’s degrees in the faculty.
- Bachelor of Veterinary Medicine
- Bachelor of Wildlife and Tourism Management
- Bachelor of Science in Leather Science and Technology
- Diploma in Leather Technology
- Diploma in Veterinary Public Health and Meat Technology
- Certificate in Meat Hygiene and Quality Assurance

Courses Offered:
- Public Health
- Epidemiology
- Biostatistics and Computer use
- Pharmacology and Toxicology
- Livestock Economics and Business Management
- Management and Entrepreneurship
- Food and Beverage Production, Sales and Service
- House Keeping
- Tourism Economics and Impact Management
- Public Relations and Entrepreneurship
- Leather Technology

The Department in collaboration with the Meat Training Institute will soon start offering Diploma in Veterinary Public Health and Meat Technology

Postgraduate training:
Courses are offered in each academic year starting in October. Application for admission can be received any time.

Masters programs:
The Department offers the following four masters degree programs that are offered by coursework and thesis.
1. Master of Science in Pharmacology and Toxicology
2. Master of Veterinary Public Health
3. Master of Veterinary Epidemiology and Economics
4. Master of Natural Products and Bioprospecting
5. Master of Science in Leather Science

PhD programs:
Ph.D. programs are offered in the following areas of specialization.
1. PhD in Pharmacology and Toxicology
2. PhD in Veterinary Public Health
3. PhD in Veterinary Epidemiology and Economics
4. PhD in Natural Products and Bioprospecting
5. PhD in Leather Science

The PhD programs are currently offered by research and thesis.

Consultancy Services:
The Department of PHPT provides consultancy services in the following areas:
- Microbiological quality analysis of food, water and feeds
- Toxicity studies for pest control products
- Antibiotic residue analysis of food, honey and animal feeds (HPLC is used for analysis)
- Pesticide residue analysis of food and feed products including meat, fish, milk, honey, feeds, etc (GC) is used for analysis
- Aflatoxin analysis of food, feeds and other samples (using TLC, ELISA and HPLC techniques)
- Toxicological analysis of food and animal feeds
- Drug assays, residues and clinical trials of drugs
- Meat speciation tests
- Epidemiological and field surveys on areas of specialization
- Training on Department areas of specialization

Research Areas:
The Department carries out research mainly in the following areas:
- Food safety and hygiene (Meat, milk and fish)
- Zoonotic diseases: Epidemiology, diagnosis, control and prevention
- Food borne diseases: Epidemiology, diagnosis, control and prevention
- Chemical residues in foods and feeds (antibiotics, and other drugs, pesticides and mycotoxins)
- Evaluation of safety and efficacy of drugs
- Molecular pharmacology
- Pharmacology and toxicology of medicinal plants
- Toxicity of new pesticides
- Epidemiology and economics of livestock diseases

ACADEMIC STAFF AND THEIR AREAS OF SPECIALIZATION

Chairman:
Prof. Ombui, J.N. B.V.M. M.Sc., Ph.D. (Nbi) - Public Health, Food safety and hygiene, microbial biotechnology, antibiotic residues in food, antibiotic resistance..

Professors:


Mitema, S.E.O., B.V.M. (Nbi), M.S. (Kansas), Ph.D. (Nbi) – Pharmacology and Toxicology. Chemotherapeutic agents
against haemoprotozoa, antibiotic residues studies, calcium channel blockers.


**Associate Professors:**


Ombui, J., N., BVM, MSc., PhD (Nbi). Public Health, Food safety and hygiene, microbial biotechnology, environmental hygiene.


Mbaria, J.M., B.V.M., M.Sc., Ph.D. (Nbi) - Pharmacology and Toxicology. Medicinal and poisonous plants.

**Senior Lecturers:**

Kanja, L. W., B.Sc., M.Sc., Ph.D. (Nbi) – Pharmacology and Toxicology, Analytical chemistry, pesticide residues in food and mother’s milk.


**Lecturers:**


Senerwa, D. M., B.V.M., M.Sc., Ph.d. ongoing (Nbi) – Public Health; Food microbiology, Molecular biology, bacterial plasmid transfer and resistance.


Oguna, M.J., B.V.M., MSc., (Nbi) ongoing Ph.D. (Nbi) – Pharmacology and Toxicology. Reproductive pharmacology.


Nguta, J. M., B.V.M., M.Sc., ongoing Ph.D – Pharmacology and Toxicology, Medicinal plants.

Aboge G. O., B.V.M., M.Sc (Nbi), Ph.D. (Japan) – Molecular Pharmacology

**Tutorial Fellows:**

**Chief Technologist:**
Ndhiu Gitahi, HND., P.M. (KIM), M.Sc., (KU). Immunology, Molecular Biology, Food Microbiology.

**Senior Technologists:**
Mr. Robert R. Koske, HND, BSc. (MKU)
Mr. Kenneth N. Maloba, HND
Mrs. Lucy W. Mwangi, HND
Mrs. D. W. Nduati, HND, Bphil. (TUK)

**Technologists:**
Marimba, A. K.
Macharia, J. K.
Gitau F. K.
Nderitu J. G.
Mainga A. O., Dip., BSc. (MKU)
Bett L. K.
Ateku A. P.

The Department has much more to offer to industries, the public and all stakeholders in Public Health, Pharmacology, and Toxicology related areas.

Clients are encouraged to visit or call the department for services.

For more information on training, research collaboration consultancy and partnerships, please contact the chairman through the contacts given over leave.

UNIVERSITY OF NAIROBI
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