

CURRICULUM VITAE

PERSONAL INFORMATION

SURNAME : NJUGUNA
OTHER NAMES : ANNE NYAWIRA
ADDRESS : UNIVERSITY OF NAIROBI, DEPARTMENT OF ANIMAL PRODUCTION
P.O BOX 00625-29053, KABETE, KENYA
DATE OF BIRTH : 15TH DECEMBER, 1964
MARITAL STATUS : MARRIED
CURRENT POSITION : CHIEF TECHNOLOGIST,

Worked in the University of Nairobi from 1987 on Various Capacities in The Following Departments; **L.A.R.M.A.T (1987-1996), P.H.P.T (1996-2006) AND ANIMAL PRODUCTION (2006-TO DATE)**

KEY STRENGTHS

- Successfully completed **ISO 9001 Quality Management System Auditing Course using Q-Pulse Software** conducted by University of Nairobi, ICT Centre on 20th March 2012
- Assessed , Examined and Successfully completed **Interna Quality Auditing Course** conducted by Kenya Bureau of standards in ISO9001:2008; Quality Management Systems in December 2007 and issued with a Certificate
- Appointed by the Deputy Vice -Chancellor (A&F) as an **Internal Quality Auditor** for the University of Nairobi in March 13, 2008
- **Commendation** by the Vice- Chancellor, University of Nairobi in August 12,2008 for devotion to duty during the **University of Nairobi ISO 9001:2008 certification Process**
- Appointed by the Deputy Vice -Chancellor (A&F) as a member of **Inspection and Acceptance Committees** in November 10, 2008
- Appointed by the Minister, Ministry of Education and Technology, **as a member of Board Of Governors**, Nairobi Technical Training Institute (NTTI) in 2010
- **Appreciation by the Principal, College of Agriculture and Veterinary Sciences** in November 1, 2010 for my role as an USHER in the College during Performance Contract luncheon.
- **Certificate of Recognition of valuable expertise as an Exhibitor of an Innovation:Theme**, “Innovation systems and knowledge-based economy for national development “ held at the KICC, Nairobi from 7th to 11th May,

WORKSHOPS/ CONFERENCES ATTENDED

- Principles in Laboratory Management and Equipment Operations held at the Biosciences eastern and central Africa-International Livestock Research Institute (BecA-ILRI) Hub in Nairobi, Kenya from 4th to 8th June, 2012
- 7th Biennial Scientific Conference &Exhibition,held at the College of Agriculture and Veterinary Sciences, University of Nairobi 8th to 10th September 2010: Theme:-One Health in a Changing Enviroment ; Faculty of Veterinary Medicine Biennial Scietific Conferences 17th to 19th September , 2008
- JKUAT Scientific , Technological and Industrialisation Conference 4th to 5th december 2008

ACTIVITIES IN THE LABORATORY

- **Proximate Analysis in Animal feed and Plant Tissues:** This includes the determination of Moisture, Dry Matter, Ash, Crude Fiber, Crude Protein and Crude Fat.
- **Analysis of Mineral elements** in plant tissues and animal feeds using Atomic absorption Spectrophotometer, flame hotometer, UV-Visible Spectrophoomteter

- **Van Soest Fiber analysis** in plant tissues and animal feeds; This includes Neutral Detergent Fiber, Acid Detergent Fiber, Hemi cellulose and lignin
- **Determination of Digestibility in forage** in two-stage invitro DM digestion by Tilley and Terry method.
- **Analysis of PESTICIDE RESIDUES** (Organochlorines, Organophosphate) in both plant tissues and animal tissues (using Gas Liquid Chromatography and Thin Layer Chromatography).
- **Detection of AFLATOXINS** qualitatively in animal feeds using Thin Layer Chromatography method .
- **Analysis of serum electrolytes especially Sodium and Potassium in diagnostic toxicology** using Flame Emission Spectroscopy.
- **Determination of FLUORIDE LEVELS in drinking water from boreholes** using Orion Research Digital Ionizer.
- **Acute Toxicity (LD₅₀) testing of Compounds** in Laboratory Animals.

ADMINISTRATIVE EXPERIENCE

- Supervising Income Generation Activities (e.g. Production of eggs, Broilers, and Feed Analysis).
- Preparing of Department of Animal Production Annual Budget Estimates and Procurement Plans; Dealing with financial accounting activities relating to Income Generating Unit in the Nutrition Laboratory; Procuring of Teaching Materials; Dealing with all Technical matters in the Department; Supervising Technical matters related to teaching and practicals of Undergraduate and Postgraduate students; Supervising the daily running of the Laboratories in the Department; Teaching and conducting of Undergraduate and Postgraduate practical; Training of Students who are on attachment from Various sections of the University of Nairobi e.g Ahiti Ndonga Embu, Faculty of Veterinary Medicine, Faculty of Agriculture and any other student from related; Training of Students who are on laboratory attachment from various Polytechnics in Kenya.
- Procurement and supply chain management
- Good laboratory practice
- Laboratory equipment: Safe Handling , Operation and Maintenance
- Laboratory Waste Management

ACADEMIC BACKGROUND

I. MANAGEMENT TRAINING

- **Master of Business Administration (MBA)**
2005-2006: Moi University, School of Business and Economics successfully passed and qualified for the award of Executive Masters of Business Administration, (EMBA) specialized in Strategic Management.
- **Bachelor of Business Management (BBM)**
2005-2006: Moi University, School of Business and Economics successfully passed and qualified for the award of Bachelor of Business Management, (BBM) specialized in Human Resource Management.
- **Diploma in Business Management (DBM)**
2003-2004: Kenya Institute of Management, (K.I.M) sat for Course in Business Management (DBM.) and was awarded a Diploma.

II. TECHNICAL TRAINING

- **Higher National Diploma (H.N.D in Analytical Chemistry)**
1989 – 1991: The Kenya Polytechnic (Nairobi), sat for Higher National Diploma (HND) in Analytical Chemistry and passed the Technical Examination

- **Ordinary Diploma in Science Laboratory Technology**

1984 – 1987: The Kenya Polytechnic (Nairobi), sat for Ordinary Diploma in Science Laboratory Technology and passed the Technical Examination

III. HIGH SCHOOL EDUCATION

- **Kenya Advanced Certificate Of Education(K.A.C.E)**

1982 – 1983: **Tumutumu Girls High School** sat for Kenya Advanced Certificate of Education (K.A.C.E) and passed in Science subjects (Mathematics, Biology, Chemistry and General Paper).

- **Kenya Certificate of Education (K.C.E)**

1978 – 1981: Loreto Girls secondary School sat for Kenya Certificate of Education (K.C.E) and passed.

IV. PRIMARY EDUCATION

1970 – 1977: Madaraka Primary School and sat for Certificate of Education (C.P.E) and passed.

WORK EXPERIENCE

2006 – To date: DEPARTMENT OF ANIMAL PRODUCTION.

Major Activities/Duties:

- Dealing with all Technical matters in the Department
- Supervising Technical matters related to teaching and practicals of Undergraduate and Postgraduate students
- Supervising the daily running of the Laboratory
- Teaching and conducting of Undergraduate and Postgraduate practical
- Procuring of teaching materials
- Preparing of Annual Budget Estimates and procurement plans
- Proposing and supervising Income Generation Activities e.g. production of eggs, Broilers, and Feed Analysis.
- Marketing of goods from the Production Units.
- Dealing with all financial accounting activities relating to Income Generating Units.

1996 – 2006: DEPARTMENT OF PUBLIC HEALTH, PHARMACOLOGY AND TOXICOLOGY IN THE UNIVERSITY OF NAIROBI.

Major activities/ duties in the Department of PHPT:

1. Analysis of PESTICIDE RESIDUES (Organochlorines, Organophosphate) in both plant tissues and animal tissues (using Gas Liquid Chromatography and Thin Layer Chromatography).
2. Detection of AFLATOXINS qualitatively in animal feeds using Thin Layer Chromatography method.
3. Analysis of serum electrolytes especially Sodium and Potassium in diagnostic toxicology using Flame Emission Spectroscopy.
4. Determination of FLUORIDE LEVELS in drinking water from boreholes using Orion Research Digital Ionizer.
5. Training of Students who are on laboratory attachment from various Polytechnics.
6. Preparation and participation in Pharmacology and Toxicology practical for Biomedical Laboratory Technology, Undergraduate and Postgraduate Students.
7. Participation in Research on Income Generating Projects.
8. Acute toxicity (LD₅₀) testing of Compounds in Laboratory Animals.

1987 – 1996: EMPLOYED IN THE UNIVERSITY OF, NAIROBI, DEPARTMENT OF LARMAT

Major Activities/duties in the Department of Range Management:

1. Proximate Analysis: This includes the determination in biological materials of moisture, dry matter, ash, crude fiber, crude protein and fat.
 2. Analysis of mineral elements in plant tissues using color Spectrophotometer.
 3. Colorimetric determination of phosphorus in plant tissues using color Spectrophotometer.
 4. Fiber analysis in plant tissues by Van Soest method. This includes:
 - Neutral Detergent Fiber
 - Acid Detergent Fiber
 - Lignin
 - Hemi cellulose.
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- Determination of digestibility in two-stage in-vitro DM digestion in forage by Tilley and Terry method.
 - Preparation of practical for both undergraduate and postgraduate students.
 - Participation in research work in the department

RESPONSIBILITIES PREVIOUSLY HELD.

1. School prefect in form one to four (1978 – 1981)
2. In-charge of chemical store in Range Management Department (1990 – 1996)
3. In-charge of chemical store in pharmacology and Toxicology section (1998 - 2006).
4. In-charge of Gas Liquid chromatography room in the department of public health, pharmacology and toxicology (1998 - 2006).
5. In-charge of supervising the cleaning of the Department of Public Health, Pharmacology and Toxicology (1998 - 2006).
6. In-charge of handing the invoice book and depositing cash in Bursar Account on behalf of Public Health, pharmacology and toxicology (2001 – 2003).
7. Custodian of Department PETTY CASH (2000 to July 2004).
8. Appointed in-charge of Pharmacology and Toxicology laboratory (2002 to-date).
9. Appointed by the Vice Chancellor, University of Nairobi to act at various periods as a Chief Technologist, Department of Public Health, Pharmacology and Toxicology.
10. Appointed by the Principal College of Agriculture and Veterinary Sciences as the Liaison Officer in Meat Technology centre, University of Nairobi (2004 - 2006).
11. Custodian of Meat Technology Centre PETTY CASH (2004 - 2006).
12. Appointed by the Minister, Ministry of education and technology as a member of Board of Governors Nairobi Technical Training Institute. (2004 - 2013)
13. Elected as a member of the Secretariat in Kenya Livestock Technologists Association (KELITA). (2005 to date).

PUBLICATIONS

1. **ANNE N. THIGA** (1990). A comparison of nutrients supplied by the cow and camel milk. (Higher National Diploma Project, Kenya National Examination Council).
2. Njeruh F.M., **Njuguna A.N**, Kimotho A, (2004). Source of day old broiler chicks and feed as management factors which affect the weight gain capacity and mortality rates of small-holder production systems in Kikuyu

Division. (A paper presented in biennial scientific conference, Faculty of Veterinary medicine, November 2004).

3. J.M. Mbaria, R.W. Munenge, **A.N. Njuguna** J.L. Orre and D. Dabasso (2005). Occurrence of a severe acute livestock poisoning by borehole water in Marsabit District, Kenya: A case study Kenya Veteranian Vol 28, pg 16 – 19 (2005).
4. **Anne N. Njuguna** (2004). Effects of sources of chicks and feeds on layers production system in Kikuyu Division Kiambu District. (Diploma in Business Management project, Kenya Institute of Management).
5. J.M Mbaria, D.W. Gakuya, S.W. Yonus, H.F.A kaburia, **A.N. Njuguna** and R.W. Munenge (2006). Comparative Bioactivity and Antimicrobial action of Withania Somnifera and Chrysanthemum Cinerariaefolium Extracts (in press).
6. Christine M. Mwangi, Edward G. Karuri, Laetitia W. Kanja, **Anne Njuguna** and Francis Gitau, (2006) Organochlorine Pesticide Residue Levels in landed Nile Perch (*Lates Niloticus*) in Lake Victoria. (In press).
7. J.M Mbaria, **Anne Njuguna** (2006). Evaluation of the Anti-Diabetic effects of Stinging Nettle (*Urtica Dioca*) (in press).
8. J.M. Mbaria, **Ann N. Njuguna** (2006). Studies of Bioactivity and Antimicrobial action of Withenia Somniferum Extract. (In press).
9. **Anne N. Njuguna** (2006) Factors Affecting Growth of Small-Scale Layer Rearing Businesses in Kikuyu Division. (Master of Business Administration Research Project, Moi University)

ACKNOWLEDGEMENTS

1. Effects of poultry waste and grain sorghum supplements on utilization of Range Hay by small East African Goats (By Moses M. Nyangeto, Degree of Masters of Science in range Management). 1995
2. Forage intake and nutritive value of sheep and goat diets in South Eastern Kenya. (By Joseph Ndung'u, Degree of Master of Science in Range Management). 1996
3. Determination of nutritive value of Acacia Tortilis and its effect on body weight gain of goats. (By Mengistu, Russom Araya, and Degree of Master of Science in Range Management of University of Nairobi). 1997.
4. Pharmacokinetics of Phenytoin, Fosphenytoin and Chloramphenicol in the Rabbit and rats. (By Muchohi Simon Ndirangu; Degree of Master of Science in Public Health, Pharmacology and Toxicology of University of Nairobi). 2000.
5. Fluoride levels in commercial mineral water and tea drinks in Kenya. (By Were E.E. Odanga, Degree in Biomedical Laboratory Technology) 2003.

6. Quality of Lake Victoria Nile Perch (*Lates niloticus*) at the landing facility as a potential microbiological and organochloride pesticide residue hazards critical control unit (by Christine Mutile Mwangi, Degree of Master of Science in Food Science and Technology of the University of Nairobi).

ASSOCIATION(S)

A member of Kenya Livestock Technologists Association (**KELITA**), partners in promoting demand driven technologies for increased productivity. (2002 to date)