

CURRICULUM VITAE

NAME: James Kinuthia **GATHUMBI**
DESIGNATION: Senior Lecturer
ADDRESS (WORK STATION) Dep. Vet. Pathology, Microbiology and Parasitology
Faculty of Veterinary Medicine, University of Nairobi,
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E-mail: jkgathumbi@uonbi.ac.ke, jkgathumbi@gmail.com
DATE OF BIRTH: 11th May, 1967.
NATIONALITY: Kenyan.
GENDER: Male
MARITAL STATUS: Married with 6 children

EDUCATION AND TRAINING BACKGROUND

1996- 2002 University of Nairobi / University of Munich (Germany).
Doctor of Philosophy degree in Veterinary Pathology and
Microbiology.
Title of thesis: Application of enzyme immunochemical and
immunohistochemical methods in the diagnosis of aflatoxicosis in
animals.

1991-1995 University of Nairobi.
Master of Science degree in Veterinary Pathology and Microbiology.
Title of thesis: A survey of mycotoxigenic fungi and mycotoxins in
poultry feeds.

1987-1991 University of Nairobi.
Bachelor of Veterinary Medicine (BVM).

1985-1986 Mangu High School
A-Levels

1981-1984 Nyahururu High School
O-levels

1974-1980 Ithanga Primary School
CPE

WORKING EXPERIENCE

- 2014 – Today Senior Lecturer, Dep. Vet. Pathology, Microbiology and Parasitology
Faculty of Veterinary Medicine, University of Nairobi.
Duties: Teaching undergraduate and postgraduate students,
undertaking research and animal disease diagnosis.
- 1997 – 2014 Lecturer, Dep. Vet. Pathology, Microbiology and Parasitology
Faculty of Veterinary Medicine, University of Nairobi.
Duties: Teaching undergraduate and postgraduate students,
undertaking research and animal disease diagnosis
- 1996-1997 Assistant Lecturer, Dep. Vet. Pathology, Microbiology and
Parasitology, Faculty of Veterinary Medicine, University of Nairobi.
Duties: Teaching undergraduate students, undertaking research
and animal disease diagnosis.
- 1994-1995 Veterinary Officer (GoK, Mwingi District)
Management and control of animal diseases.

PROFESSIONAL ACCREDITATION AND AFFILIATIONS

- 1 Registered Veterinary Surgeon under the Veterinary Surgeons and Veterinary Paraprofessional Act No. 29 of 2011.
- 2 Member, Kenya Veterinary Association.
- 3 Member, International Network For Family Poultry Development
- 4 Member, GoK-MoH Committee on Risk Assessment for Aflatoxin B1 and Fumonisin B1 in Maize in Kenya.

SPECIALIZATION AND RESEARCH EXPERIENCE

- 1 Animal disease diagnosis, including advanced skills in Necropsy, Clinical Pathology, Immunology, Molecular and Forensic techniques.
- 2 Development and application of immunoassays for detection and determination of mycotoxins such as aflatoxins, ochratoxins etc.
- 3 Immunology – production and characterization of antibodies against haptenic analytes such as aflatoxins, application of these antibodies in tests based on ELISA, immunoaffinity chromatography and membrane filtration techniques.

- 4 Mycotoxicology – investigations on mycotoxin occurrence in foods, body fluids, blood serum and urine and associated human and animal disease syndromes.
- 5 Development of immunohistochemical methods for mycotoxins and animal diseases.

RESEARCH AND CONSULTANCY PROJECTS UNDERTAKEN

1. LEAP-AGRI MycoSafe-South - the European–African partnership for safe and efficient use of mycotoxin-mitigation strategies in sub-Saharan Africa”. September 2018 – ongoing. Role: **Principal Investigator**.
2. National Consultant, Mycotoxin Control and Prevention, UN FAO project TCP/KEN/3402 Management and Control of Aflatoxin in the Maize value Chain. Duration 10th March to 31st October, 2014. Role: **Principal Consultant**.
3. Improving the health and livelihood of people of East Africa by addressing aflatoxin and gender-related constraints in peanut production, processing and marketing. University of Georgia/ USAID Collaborative project. (2012-2015). Role: **Collaborator**.
4. The Peanut Collaborative Support Program on management of mycotoxins in groundnuts funded by USAID (March, 2010 to July, 2011). Role: **Collaborator**.
5. Mitigating Mycotoxin Hazards in Maize and Maize Products in Kenya. Funded by the Kenya Agricultural Productivity Programme (KAPP). A collaborative project involving Kenya Agricultural Research Institute (KARI), Ministry of Agriculture, Ministry of Health and Kenya Maize Development Programme and University of Nairobi (July 2008 to June, 2010). Role: **Principal Co-investigator**.
6. Enhancing detection and prevention of poisons and contaminants in dairy feeds used by smallholders. The project funded by Kenya Agricultural Research Institute (KARI-KAPP). Role: **Collaborator**.
7. Monitoring aflatoxin exposure in chicken by immunohistochemical localization of aflatoxin-DNA adducts in chicken liver tissues. The project funded by the International Foundation for Science (Sweden). **Principal Investigator**.

TEACHING AND OTHER DUTIES

1. Teaching general, clinical, diagnostic and toxic pathology to undergraduate and postgraduate (MSc and Ph.D) veterinary and other students.
2. Postgraduate student supervision.
3. Routine and advanced animal disease diagnosis through application of necropsy, clinical pathology, immunology, molecular and forensic techniques to cases submitted to the department.
4. Establishment and management of an immunoassay facility for the analysis of mycotoxins in human food and animal feeds within the faculty. This facility is a recognized national center of excellence for mycotoxin analysis.
5. Provision of consultancy services – Testing and training on testing methods of aflatoxin and other mycotoxins.
6. Subject Coordinator for PM Demonstrations and Pathology Work Groups from October 2013 to date. Special Pathology between February 2002 to July, 2011. .
7. Member, Faculty of Veterinary Medicine Biosafety, Animal Use and Ethics Committee.

SCIENTIFIC PUBLICATIONS

THESES

1. **Gathumbi, J.K.** (2001). Application of enzyme immunochemical and immunohistochemical methods in the diagnosis of aflatoxicosis in animals. Ph.D Thesis. University of Nairobi.
- 2 **Gathumbi, J.K.** (1993). A survey of mycotoxigenic fungi and mycotoxins in poultry feeds. MSc Thesis. University of Nairobi.

PAPERS IN REFERRED JOURNALS

1. Kemboi, D. C.; Antonissen, G.; Ochieng, P. E.; Croubels, S.; Okoth, S.; Kangethe, E. K.; Faas, J.; Lindahl, J. F.; **Gathumbi J. K.** (2020). A Review of the Impact of Mycotoxins on Dairy Cattle Health: Challenges for Food Safety and Dairy Production in Sub-Saharan Africa. *Toxins* 2020, 12 (4).
<https://doi.org/10.3390/toxins12040222>.
2. Kimani Pius Mutisya, Yeri Kombe, Fred Wamunyokoli, Charles F.L. Mbakaya & James K. **Gathumbi** (2019). The Effect of Aflatoxin B1 Serum Albumin Adducts

- Level On Subjects With And Without Liver Disease In Kitui And Makueni Regions Of Lower Eastern Kenya. *Journal of Health, Medicine and Nursing* Vol.4, Issue 5. No.2, pp 12- 22.
3. Kimani, Pius Mutisya, Kombe, Yeri, Wamunyokoli, Fred W, Mbakaya, Charles F. L, and **Gathumbi**, James K. (2019), The Additive Effect of Hepatitis B Virus and Aflatoxin B1 to Liver Disease Burden: A Case Study in Kitui, Makueni and Machakos Counties, Kenya. In: *Journal of Health and Medical Sciences*, Vol.2, No.3, 312-331.
 4. Pie Ntampaka, Philip Njeru Nyaga, James Kinuthia **Gathumbi** and Michael Tukei. (2019) Rabies serosurvey of domestic dogs in Kigali City, Rwanda. *Journal of Veterinary Medicine and Animal Health*: 11., 64-72
 5. Evalyn Wanjiru Mwihiya, Paul Gichohi Mbuthia , Gunnar Sundstøl Eriksen, James K. **Gathumbi**, Joyce G. Maina , Stephen Mutoloki , Robert Maina Waruiru , Isaac Rumpel Mulei and Jan Ludvig Lyche (2018). Occurrence and Levels of Aflatoxins in Fish Feeds and Their Potential Effects on Fish in Nyeri, Kenya
 6. Ntampaka, P., PN Nyaga, JK **Gathumbi**, M Tukei (2018). Knowledge, attitudes and practices regarding rabies and its control among dog owners in Kigali city, Rwanda. *BioRxiv* 2018: pages 500595.
 7. Njue L.G., Ombui J.N., Kanja,L.W, **Gathumbi** J.K. Midiwo J.O. (2017). Identification of the Antimicrobial Compounds in Garlic Grown at Laikipia County. *International Journal of Agricultural Research and Review*: ISSN-2360-7971, Vol. 5(5): pp 636-643.
 8. Njue L.G, Ombui J.N., Kanja, L.W, **Gathumbi** J.K. (2017). Assessment of Effectiveness of Garlic Extract from Laikipia County, on Shelf-Life of Meat. *Journal of Agricultural Economics, Extension and Rural Development*: Vol. 5(5): 632-641.
 9. Samson Chebon, Wanjiru Wanyoike, Christine Bii, James **Gathumbi** and Dorington Ogoyi (2016). Incidence of Aflatoxigenic Fungi and Aflatoxins in Maize

- Cultivated in Highland and Mid-altitude Agro-ecological Zones in Kenya. Journal of Scientific Research & Reports 9(6): 1-12, 2016;
10. Samson Chebon, Wanjiru Wanyoike², Christine Bii, James **Gathumbi** and Dorington Ogoyi (2017). Prevalence of Aflatoxin Biosynthesis Genes According to Aflatoxin Levels in Maize of Different Varieties in Kenya. Biotechnology Journal International. 19(2): 1-21.
 11. Samson Chebon, Wanjiru Wanyoike, Christine Bii, James **Gathumbi** and Dorington Ogoyi (2016). Incidence of Aflatoxigenic Fungi and Aflatoxins in Maize Cultivated Under Rain-Fed and Irrigation Farming Systems in Kenya. British Microbiology Research Journal 11(6): 1-11.
 12. Njue L. G, Ombui J.N., Kanja L.W., **Gathumbi** J.K. and Nduhiu J.G. (2015). Evaluation of oral toxicity level of ethyl acetate extract, from garlic (*Allium sativum*) in onorrh dawleys rats as per OECD guidelines 423. Journal of Food Science and Technology: Vol 2(3): 056-064.
 13. Muthomi J.W., Mureithi B.K, Chemining'wa G.N., **Gathumbi J.K.**, Mutitu E.W (2012). *Aspergillus* species and Aflatoxin B1 in soil, maize grain and flour samples from semi arid and humid regions of Kenya. International Journal of AgriScience Vol.2(1):22-34
 14. Kibugu, J.K., Makumi, J.N., Ngeranwa, J. J. N., Kagira, J.M., **Gathumbi, J.K.** and Mwangi, J.N. (2009). Aggravation of pathogenesis mediated by aflatoxin B1 in mice infected with *Trypanosoma brucei rhodesiense*. Protozool. Res. 19, 24-33.
 15. Kibugu J.K., Ngeranwa J.J., Makumi J.N., **Gathumbi J.K.**, Kagira J.M., Mwangi J.N., Muchiri M.W, Mdachi R.E. (2009). Aggravation of pathogenesis mediated by ochratoxin A in mice infected with *Trypanosoma brucei rhodesiense*. Parasitology 136(3):273-81
 16. Muthomi, J. W., Njenga, L. N., **Gathumbi, J. K.** and Chemining'wa, G. N. 2009. The occurrence of aflatoxins in maize and distribution of mycotoxin-producing fungi in eastern Kenya. Plant Pathology Journal 8 (3): 113-119.

17. Mutungi, C., Lamuka, P., Arimi, S., **Gathumbi, J. K.**, Onyango, C., (2008). The fate of aflatoxins during processing of maize into *Muthokoi* – a traditional Kenyan food. *Food Control* 19:714 -721.
18. Muthomi, J. W., Ndung'u, **J. K.**, **Gathumbi, J. K.**, Mutitu, E. W. and Wagacha, J. M. 2008. The occurrence of *Fusarium* species and mycotoxins in Kenyan wheat. *Crop Protection* 27(8): 1215-1219.
19. Muthomi, J. W., G. M. Riungu, J. K. Ndung'u, R. D. Narla, **J. K. Gathumbi** and J. M. Wagacha. 2008. Head blight of wheat in Kenya and contamination of grain with mycotoxin producing *Fusarium* species. *Journal of Plant Sciences* 3 (1): 52-60.
20. Riungu G. M., J. W. Muthomi, R. D. Narla, J. M. Wagacha, and **J. K. Gathumbi**. 2008. Management of *Fusarium* head blight of wheat and deoxynivalenol accumulation using antagonistic microorganisms. *Plant Pathology Journal* 7 (1): 13-19.
21. Muthomi, J. W., Hindorf, H., Ndung'u, J. K. and **Gathumbi, J. K.** 2007. Occurrence of *Fusarium* head blight – causing pathogens and mycotoxins in Kenyan wheat. *Journal of Plant Diseases and Protection*, 114:39.
22. Mbugua, S.M. and **Gathumbi J.K.** (2004). The contamination of Kenyan lager beers by *Fusarium* mycotoxins. *Journal of The Institute of Brewing* **110**: 227-229.
23. **Gathumbi, J. K.**, Usleber, E., Ngatia, T.A., Kangethe, E.K. and Märthlbauer, E. (2003)
24. Application of immunoaffinity chromatography and enzyme-linked immunosorbent assay in the rapid detection of aflatoxin B1 in chicken liver. *Poultry Science* 82:585-590.
25. **Gathumbi J.K.** and Ngatia T.A. (2003). An immunochemical survey of ochratoxin A in swine serum in central Kenya. *Bulletin of Animal Health and Production in Africa* 51:64-66.
26. Salah, A.M., **Gathumbi, J.**, Vierling W. and Wagner, H. (2002). Estrogenic and cholinergic properties of methanol extract of *Ruellia praetermissa* Scainf.ex.Lindau (Acanthaceae) in female rats. *Phytomedicine* 9: 52-55.
27. Salah, A.M., **Gathumbi, J.**, Vierling W. (2002). Inhibition of intestinal motility by methanol extracts of *Hibiscus sabdariffa* L. (malvoceae) in rats. *Phytotherapy Research* 163: 283-285.
28. **Gathumbi, J. K.**, Usleber, E. and Märthlbauer, E. (2001). Production of ultrasensitive antibodies against aflatoxin B₁. *Letters in Applied Microbiology* 32: 349-351.

29. **Gathumbi**, J.K. and Bebora, L.C. (2000). The occurrence of aflatoxin in poultry tissues collected in Nairobi, Kenya. *Bulletin of Animal Health and Production in Africa* 48: 61-62.
30. **Gathumbi**, J.K., Bebora, L.C., Muchiri, D. J. and Ngatia, T.A. (1996). Mycological examination of poultry feeds used in Nairobi, Kenya. *Bulletin of Animal Health and Production in Africa* 44: 19-22.
31. **Gathumbi**, J.K., Bebora, L.C., Muchiri, D. J. and Ngatia, T. A. (1995). A survey of mycotoxins in poultry feeds used in Nairobi, Kenya. *Bulletin of Animal Health and Production in Africa* 43: 243-245.

PAPERS IN CONFERENCE PROCEEDINGS

1. E.W. Mwihiya, J.L. Lyche, P.G. Mbuthia, J.K. **Gathumbi**, J. Maina, L. Ivanova, S. Uhlig and G.S. Eriksen (2018). Co-occurrence of multiple mycotoxins in fish feed in Kenya. The 2nd African Symposium on Mycotoxicology is to held from 24th to 27th June 2018 at Leisure Lodge Resort Mombasa, Kenya.
2. **Gathumbi**, J.K. (2015). "Impact of Unharmonized Aflatoxin Regulations and Standards on trade. Presentation in a COMESA workshop to offer training and build capacity on aflatoxin sampling (ISO 17025 laboratory requirements) and COMESA aflatoxin proficiency testing scheme and coregulation of aflatoxin-safe labelling held in Uganda on 24th and 27th August 2015.
3. **Gathumbi**, J.K. (2015). "Co-Regulation Options for Aflatoxin Certification and Labelling. Presentation in a COMESA workshop to offer training and build capacity on aflatoxin sampling (ISO 17025 laboratory requirements) and COMESA aflatoxin proficiency testing scheme and coregulation of aflatoxin-safe labelling held in Uganda on 24th and 27th August 2015.
4. Gathumbi, PK, Varma VS, **Gathumbi** JK, Shah DN. 2013. Ocular Neoplastic Lesions of the Horse in Kenya from Specimens Received between 1967 and 2013 in the University of Nairobi, Department of Veterinary Pathology,

Microbiology and Parasitology, April, 2013. 47th Annual Conference of the Kenya Veterinary Association., Mombasa, Kenya.

5. **Gathumbi, J. K.**, Kimani, S. and Kimani G., (2013). Traces of Opiates in Shisha collected in Nairobi, Kenya. Paper presented at the 2nd National conference on Alcohol and Drug Abuse held at Kasarani Gymnasium, Nairobi from 10th – 13th June 2013.
6. J. K. Kibugu, J.N. Makumi, J. M. Kagira, J. J. N. Ngeranwa, **J. K. Gathumbi**, J. N. Mwangi, M.W. Muchiri and R. E. Mdachi (2013). Effects of mycotoxins on the pathogenesis of *Trypanosoma brucei rhodesiense* in mice. Proceedings of 2nd Joint Annual East African Network for Trypanosomiasis/ Human African Trypanosomiasis Scientific Conference held at Panafric Hotel, Nairobi, Kenya on 4th-7th June 2013.
7. **Gathumbi J.K.** (2012). Overview of sampling and analytical methods for mycotoxins. COMESA Regional training on food safety/aflatoxin control for Regionally harmonized sampling and laboratory procedures February, 28th and 29th 2012 at KEPHIS Hqs, Nairobi, Kenya.
(<http://programmes.comesa.int/attachments/article/172/Technical%20Report.doc>.)
8. Muthomi, J. W., G. M. Riungu, J. K. Ndung'u, R. D. Narla and **J. K. Gathumbi** (2008). *Fusarium* head blight in Kenya and possible management strategies. 10th International *Fusarium* Workshop and the *Fusarium* Genomics Workshop, 30th August-2nd September 2008, Alghero (Sardinia), Italy.
9. Muthomi, J. W., Njenga, L. N., **Gathumbi, J.K.** and Chemining'wa, G. N. 2008. Mycotoxin-producing fungi and aflatoxin incidence in maize from Machakos, Kenya. 11th KARI Biennial Scientific Conference, 10–14th November 2008, Nairobi, Kenya.
10. Muthomi, J. W., J. K. Ndung'u, J. and **J.K. Gathumbi**. 2006. Occurrence of wheat head blight-causing *Fusarium* species and associated trichothecene mycotoxins in

- Kenyan wheat. 10th KARI Biennial Scientific Conference, 13-17 November 2006, Nairobi, Kenya.
11. Muthomi, J. W., H. Hindorf, J. K. Ndung'u and **J. K. Gathumbi**. 2006. Occurrence of *Fusarium* head blight-causing pathogens and mycotoxins in Kenyan wheat. Tropentag 2006 October 11-13, University of Bonn, Germany (Summary paper accessible at <http://www.tropentag.de/2006/abstracts/full/608.pdf>).
 12. Muthomi, J. W., J. K. Ndung'u, **J. K. Gathumbi** and G. N. Chemining'wa. 2005. *Fusarium* and mycotoxin contamination in freshly harvested wheat grain in Kenya. African Crop Science Conference proceedings,7: 355-358.
 13. **Gathumbi J.K** (2005). An overview of methods for detection of aflatoxins in foods. Proceedings of a WHO Experts group meeting on aflatoxins and health held on 24 – 27th May, 2005 in Brazzaville, Congo.
 14. **Gathumbi, J.K.** (2003). Mycotoxin status in Kenya. A paper presented at the Kenya Veterinary Association Nairobi Branch Scientific Conference and Annual General Meeting held in Nairobi on 26th February, 2003.
 15. Mutitu, E.W., Narla, R.D., Oduor, H. and **Gathumbi J.K.**, (2003). Causes of ear rot of maize with mycotoxin implication in Eastern and Central Kenya. 6th Biennial Conference of the African Crop Science Society held in on October 12-17th, 2003.
 16. **Gathumbi J.K.**, Wakhisi, J., Mbuthia, E.W. and Mosonik, J.S., (2002). Application of rapid immunoassays in a survey of mycotoxins (aflatoxins, deoxynivalenol and fumonisins) in foods and feeds. A paper presented at the Faculty of Veterinary Medicine Bi-annual Conference held in Nairobi on 7-9th August, 2002.
 17. **Gathumbi J.K.** (2002). Immunological determination of mycotoxins in animal feeds: principles and application. A paper presented at the 2nd Kenya Livestock Technicians Association Scientific Conference held in KARI on 10-12th September, 2002.
 18. **Gathumbi, J. K.**, Usleber, E. and Märtlbauer, E. (2000). Rapid extraction and immunological determination of aflatoxin in chicken liver tissues. Poster presentation at the XXI World Poultry Congress to be held in Montréal, Canada from 20-24th August, 2000.

POSTGRADUATE STUDENT THESIS SUPERVISION

Completed PhD Students (2)

1. Lucy Njue (J87/812002/2011). Thesis title: Development of a meat preservative from garlic (*Allium sativa*). PhD in Veterinary Public Health, University of Nairobi. (Graduated 2017)
2. Samson Chebon. Department of Botany JKUAT. Thesis title: Aflatoxigenic Fungi and Aflatoxins in Maize Varieties Cultivated in Highland and Mid-Altitude Agroecological Zones in Kenya (Graduated 2016)

Completed Masters Students (10)

1. Ntimpaka Pie (M.Sc), Department of Veterinary Pathology, Microbiology and Parasitology, University of Nairobi. Thesis title is on, 'Assessment of the Effectiveness of Anti-Rabies Vaccination of Dogs in Kigali City, Rwanda. (Graduated 2018).
2. Dr Dhaval N Shah (MSc) Department of Veterinary Pathology Microbiology and Parasitology, University of Nairobi. Thesis title is on, 'Histopathology and immunohistochemical study of cutaneous nodular and other surface swellings of Kenyan horses'. (Graduated 2015)
3. Maloba Miriam (A56/p/8113/03. MSc in Agricultural Resource Management. Postharvest practices and the quality of farm- processed and stored orange fleshed sweet potato chips in Tiriki west division, Vihiga county, Western province. (Graduated 2013).
4. Pius Mutisya Kimani (Reg. No. 156/CE/12511/2004)., Kenyatta University). Msc in Chemistry. Title "Determination of Aflatoxin levels in Maize and flour at different storage conditions in Kitui, Mwingi and Makueni Districts, Kenya." (Graduated 2011).
5. Riungu, Ginson Mwirigi (A/56/8080/2005). M.Sc. crop Protection. Biological control of *fusarium* head blight of wheat. (Graduated in 2007).
6. Jane K.Ndung'u (A/56/P/8147/03).. MSc. Crop Protection (Graduated in 2006). Fungal and mycotoxin contamination of wheat from Nakuru and Nyandarua districts of Kenya and pathogenicity of *fusarium* species on wheat. (Graduated in 2007)

7. Mutungi Christopher. MSc in food Science, University of Nairobi . Effect of dehulling maize grain and treatment with chemical additives on the levels of Aflatoxins during *Muthokoi* making and processing. (Graduated in 2006).
8. Njenga, Lucy W. (A56/P/8006/2006). MSc. in Agricultural Resource Management. Fungal contamination and Aflatoxin levels in maize in greater Machakos district and evaluation of possible management strategies. (Graduated October 2008.)
9. Hannah Oduor. MSc in Crop Protection. Fungal pathogens and mycotoxins associated with maize ear rot. (Graduated 2005).
10. Kibugu James Karuku (Reg. No.156/5757/2003) (Graduated 2008), Kenyatta University). Msc in Biotechnology. Title: Effects of mycotoxins on the pathogenesis and curative treatment of *Trypanosome rhodesiense* in Mice.

Ongoing PhD. Students (6)

1. Kimani Pius Mutisya. Ph.D in Medical Epidemiology, JKUAT. The Prevalence of Liver Disease among Sero-positive HBV and AFB1 Subjects and the Factors associated with the disease in Kitui and Makueni Counties, Kenya. (2014 –to date).
2. Kibugu, James K. Ph.D in Biochemistry and Biotechnology, Kenyatta University. The study is titled ‘Aflatoxicosis in Cobbs 500 Broiler Chicken: prevalence of aflatoxins in feeds, its impact on health and productivity, and control using binders. (2014 –to date).
3. Mwihiya Evalyn. PhD at Norwegian University of Life Sciences. “Prevalence of aflatoxins in fish feeds and their effects on farmed fish in Kenya.” (2015 –to date).
4. Kemboi David C (PhD in PhD in Veterinary Pathology and Diagnostics, University of Nairobi. Efficacy of Mycotoxin Detoxifiers In Reduction Of Toxicity And Carry-Over Of Mycotoxins In Exotic And Indigenous Dairy Cattle. (2015 –to date).
5. Kaat Neckermann. PhD at the Faculty of Veterinary Medicine, University of Ghent. Safety and efficacy of mycotoxin binders/modifiers in human: *in vitro* and *in vivo* piglet model. (2018 –to date).
6. Odongo Mahacla O. (PhD in Applied Microbiology, University of Nairobi. Serological and Molecular Prevalence of **Brucella** spp. In Livestock and Wild Animals in Selected Counties in Kenya. (2019 –to date).

Ongoing Master Students (1)

1. Irene Malika, Registration No.156/CE/14409/09. Msc Biotechnology. (Kenyatta University). "Determination of Aflatoxin levels in cassava and cassava products from Teso South district in Western Kenya." (2014 –to date).

REFEREES

1. Prof. S.M. Githigia, Chairman, Department Veterinary Pathology and Microbiology University of Nairobi, Kenya.
2. Prof. James M Mbaria, Department of Public Health, Pharmacology and Toxicology, University of Nairobi, Kenya.
3. Prof. James W. Muthomi, Department of Plant Science and Crop Protection, University of Nairobi, Kenya.