

Dr. Nduhiu Gitahi (PhD)

Address: P. O. Box 3518-00100, Nairobi, Kenya

E-mail: nduhiugitahi@gmail.com, jgitahi@uonbi.ac.ke

Phone: +254 0722339553

BIO DATA

Date of Birth: November 1971

Nationality: Kenyan

Marital Status: Married with three children

Profession: Immunologist/ Microbiologist

Occupation: Principal Technologist, Department of Public Health Pharmacology & Toxicologist

PERSONAL STATEMENT

A motivated, adaptable researcher able to work with people in different environments, holds a PhD in immunology with a microbiology bias. Have a wide range of peer reviewed publications including, zoonotic infections, wildlife ecology, food safety and antimicrobial resistance. A team player with project management skills and have worked in successful research projects in different parts of Kenya.

EMPLOYMENT HISTORY

2015 – Present

Principal Technologist; Grade 13 | University of Nairobi

In Public Health, Pharmacology and Toxicology Laboratories of the University of Nairobi. With the capacity to train students at undergraduate and postgraduate levels, conduct lectures, research and consultancy work.

Specifically involved in various areas including;

- Postgraduate students lecture in Applied immunology, Quality control, Hazard analysis and critical control points.
- Supervision of postgraduate students on research thesis.
- Undertaking research projects under Public Health
- Establishment of an ISO 17025 accredited Mycotoxins Reference Laboratory (MRC)
- Development of Laboratory Manuals for staff and students use.
- Troubleshooting and Maintenance of Laboratory methodologies and equipment.
- Induction of newly employed staff.
- Teach Analytical Techniques to BSc leather IV classes from 2016.
- Laboratory based training of staff, students and trainees on industrial attachment.
- Quality control Manager (MRC Lab)

2008 – 2015

Chief Technologist; Grade 12 | University of Nairobi
Department of Public Health Pharmacology & Toxicology

- Participate in consultancy work
- Preparation of Departmental Procurement Plan and Budget.
- Supervision of Laboratory Procedures, Sample handling and Analyses for result generation.
- Supervision of Reference stock-cultures and Standard micro-organisms maintenance.
- Supervision of Departmental Chemical, Reagents and Stationary store keeping.
- Supervise operations of Immunology, Molecular biology and Microbiology laboratories.
- Supervise operations of Pharmacology and Toxicology laboratory.

2002 - 2008

Senior Technologist | University of Nairobi

- Reference stock-cultures and Standard micro-organisms maintenance.
- Departmental Chemical, Reagents store keeping.
- Participate in postgraduate and undergraduate practical as well as research projects in Immunology, Molecular biology and Microbiology laboratories.

1996 - 2002

Technologist | University of Nairobi

- Participate in postgraduate and undergraduate practical as well as research projects in Immunology, Molecular biology and Microbiology laboratories.

EDUCATION:

2014 – 2018 | Kenyatta University (2018)

PhD – Immunology (Microbiology) <http://ir-library.ku.ac.ke/handle/123456789/19402>

Thesis Title: “Isolation, serotyping and molecular characterization of enteric pathogens for validation of “Peepoo” sanitization along handling chain at Kibera, Nairobi Kenya”.

2005 - 2008 | Kenyatta University: <http://ir-library.ku.ac.ke/handle/123456789/1976>

Master of Science – Immunology (Molecular Bio.)

Thesis Title: “The development of a multiplex polymerase chain reaction assay for direct detection of enterotoxigenic *Bacillus cereus* in food”

2010 - 2011 | Kenya Institute of Management:

Diploma in Project Management

Project Title: “Factors influencing sustainability of school-based reproductive health training programs in Kenya. A survey of schools in Kimathi location Nyeri County Central Kenya”

1999 – 2000 | Kenya Polytechnic:

Higher Diploma in Medical Laboratory Science (Immunology, Bacteriology, and Virology)

Project Title: “Production of an Immunoglobulin-G enzyme conjugate and its use in speciation of meat products”.

1991 – 1994 | Kenya Polytechnic:

Diploma in medical laboratory science (Immunology, Microbiology, Parasitology, Hematology, Histology and Physiology)

Project Title: “Isolation, purification, characterization of Goat Immunoglobulin G and production of Rabbit anti Goat conjugate for subsequent use in ELISA”.

1986 – 1989 | Kimathi High School:

Kenya Certificate of Secondary Education

PROFESSIONAL DEVELOPMENT:

1. Policy brief Training. 1st to 2nd October 2020. University of Nairobi. Research Innovation & Enterprise.
2. Theory and Practical Training on Himedia DNA Extraction and PCR Techniques. Himedia Labs and Chemoquip Limited at Kabete Campus. May 2, 2019.
3. Disease surveillance: Biosafety, Biosecurity and Laboratory. 3- 4 May 2017 at Institute of Primate Research, Karen.
4. Advanced Genomics and Bioinformatics. 7-19 August 2016 at BecA-IRI Hub, Nairobi, Kenya.
5. Management Training for Technical Staff. 26th to 27th March 2015. College of Agriculture & Veterinary Sciences. University of Nairobi.
6. Certificate in Bioinformatics & Genomics. November 25-29, 2013. Held at University of Nairobi, Center for Biotechnology and Bioinformatics, sponsored by The National Science Foundation, The Fulbright Foundation, Lewis & Clark and Reed College.
7. Certificate in performance enhancement. July 28th-29th, 2012. Held at University of Nairobi, by Empowerment Resource Technologies Ltd.
8. Introduction to Principles in Laboratory Management and Equipment Operations. 4th -8th June, 2012. Held at BeCa-ILRI, Hub in Nairobi, Kenya.
9. Analysis of Aflatoxin and Fumonisin using ELISA and HPLC; and Molecular characterization of *Aspergillus* and *Fusarium* species. Held at University of Nairobi by Safe Food Safe Daily project. March 12th-23rd 2012.
10. Research and Grant Proposal Writing. September 2011. Held at University of Nairobi by UNES.
11. Introduction to HPLC course. July 2010. By Stuart Jones HPLC Academy.

12. Intermediate HPLC Course. June 2010. By Stuart Jones HPLC Academy.
13. Certificate in Training of Trainers in Laboratory Aspects of Antiretroviral Therapy, February 2008. Held at Ethiopian Health and Nutrition Research Institute, National HIV Laboratory.
14. Diagnoses of Infectious Diseases by Loop-Mediated Isothermal Amplification (LAMP). 18-19th December, 2006. ILRI by Asian-Africa Science platform program.
15. Technical Certificate on repair and maintenance of computers. Jan. 1997 to Dec. 1998. Kenya Christian Industrial Training Institute.
16. Journey into Ministry. October 1995. Faith Evangelistic Ministry

BOOK CHAPTERS:

1. Theory and applications of Microbiology and Biotechnology (Vol.2; Chap.7). eBook ISBN: 978 93 89562 79 8. **Nduhiu Gitahi J**, Gicheru M.M, Gathura P.B., Githinji T.W, Nordin. Multidrug resistant *Escherichia coli* isolated from asymptomatic school going children in Kibera slum, Kenya. 2019. Book publisher international. DOI:10.9734/bpi/tamb/v2.
2. Recent Research Advances in Biology (Vol. 5; Chap.1). Print ISBN: 978-93-90516-93-3, eBook ISBN: 978-93-90516-94-0. William O. Ogara, **Nduhiu Gitahi**, Alfred O. Mainga and Eunice B. Ongoro. Emphasizing the Human Carnivores Conflict in Wamba District, Samburu County, Kenya. DOI: 10.9734/bpi/rrab/v5/6068D

PUBLICATIONS:

1. Muloi, D.M., Wee, B.A., McClean, D.M.H. *et al.* Population genomics of *Escherichia coli* in livestock-keeping households across a rapidly developing urban landscape. *Nat Microbiol* (2022). <https://doi.org/10.1038/s41564-022-01079-y>
2. Elizabeth Anne Jessie Cook, **Nduhiu Gitahi**, William Anson de Glanville, Lian F. Thomas, Samuel Kariuki, Erastus Kang'ethe and Eric Maurice Fèvre. Prevalence and risk factors for exposure to *Toxoplasma gondii* in slaughterhouse workers in western Kenya. *BMC Infect Dis* (2021) 21:944. <https://doi.org/10.1186/s12879-021-06658-8>
3. **Nduhiu Gitahi**, Gathura P.B., Gicheru M.M, Beatrice M.W., Nordin A. 2020. Multidrug-resistant *campylobacter jejuni*, *campylobacter coli* and *campylobacter lari* isolated from asymptomatic school going children in Kibera slum, Kenya. *F1000Research*,9:92<https://doi.org/10.12688/f1000research.21299.1>
4. Kariuki J., W. Ogara, P. Nguhiu and **Nduhiu Gitahi**. Assessment of Antimicrobial Resistance Profiles of *Campylobacter* spp. in Commercial Broiler Production Systems in Kenya. *International Journal of Poultry Science*. ISSN 1682-8356 DOI: 10.3923/ijps.2020.467.476.
5. Muia B.M., Mbari J.M., Kanja L.W., **Nduhiu G.**, Okumu P.O., and Okumu M.O. 2020. Acute and sub-acute toxicity study of the root extracts of *Fagaropsis hildebrandtii* in mice and evaluation of their antimicrobial effects. *F1000Research*,9:92<https://doi.org/10.12688/f1000research.19915.2>
6. **Nduhiu Gitahi**, Gicheru M.M., Gathura P.B., Karanja N. K.: Githinji W.T., Nordin A. Internalization of Enteropathogenic human bacteria in lettuce and Coriander plant tissue. 2018. *Journal of Health and Environmental Sciences*. Vol. 5(3), pp 28-32. DOI: 10.5897/ISAAB-JHE2018.0043.
7. **Nduhiu Gitahi J**, Gicheru M.M, Gathura P.B., Githinji T.W, Nordin A. Multidrug resistant *Escherichia coli* isolated from asymptomatic school going children in Kibera slum, Kenya.

2018. *African Journal of Bacteriology Research*. Vol. 10(5), pp. 70-77. DOI: 10.5897/JBR2018.0259.
8. Ogeto Mwebi, and **Nduhiu Gitahi**. Scientists get ever closer to discovering the mystery of 'man eating lions' *The man-eating lions of Tsavo in the Field Museum of Natural History*. Written by Curtis Abraham on 12th April 2018. <https://theecologist.org/2018/apr/12/scientists-get-ever-closer-discovering-mystery-man-eating-lions>.
 9. Kang'ethe E. K., M. Gatwiri, A. J. Sirma, E. O. Ouko, C. K. Mburugu-Musoti, P. M. Kitale, G. J. **Nduhiu**, J. G. Nderitu, J. K. Mungatu, V. Hietaniemi, V. Joutsjoki and H. J. Korhonen. Exposure of Kenyan population to aflatoxins in foods with special reference to Nandi and Makueni counties. *Food Quality and Safety*, 2017, 1(2), 131–137; doi:10.1093/fqs/fyx011
 10. Kang'ethe, E. K., Korhonen, H., Marimba, K. A., **Nduhiu, G.**, Mungatu, J. K., Okoth, S. A., Joutsjoki, V., Wamae, L. W. and Shalo, P. (2017) 'Management and mitigation of health risks associated with the occurrence of mycotoxins along the maize value chain in two counties in Kenya', *Food Quality and Safety*, 1(4), pp. 268–274. doi: 10.1093/fqsafe/fyx025.
 11. Kang'ethe E. K., A. J. Sirma, G. Murithi, C. K. Mburugu-Mosoti, E. O. Ouko, H. J. Korhonen, **G. J. Nduhiu**, J. K. Mungatu, V. Joutsjoki, E. Lindfors and S. Ramo. Occurrence of mycotoxins in food, feed, and milk in two counties from different agroecological zones and with historical outbreak of aflatoxins and fumonisins poisonings in Kenya. *Food Quality and Safety*, 2017, 00, 1–9 doi:10.1093/fqsafe/fyx018.
 12. Getanda, P., Kariuki, F., **Gitahi**, N., Onkoba, N., Juma, G. and Kinyanjui, P. (2017) 'Genetic characterization and evaluation of antimicrobial resistance patterns of human *Salmonella typhi* isolates in Kenyatta National Hospital in Nairobi, Kenya', pp. 8–15. doi: 10.14800/pid.1570.
 13. William, O. O., **Nduhiu, G.**, Alfred, O. M. and Eunice, O. (2017) 'Human carnivores conflict in Wamba District, Samburu County, Kenya', *International Journal of Biodiversity and Conservation*, 9(9), pp. 284–291. doi: 10.5897/IJBC2016.0978.
 14. Gachohi J., Karanja S., Wanyoike S., **Nduhiu G.**, Bukachi S. and Ngure K. 2016. Sorcing Eco-epidemiological field parameters to describe a slum household-based pathogenic *Leptospira* population dynamics simulation model in Kenya: A pseudo-longitudinal study protocol. *Veterinary sciences research and reviews*, 2 (3) pp 66-75.
 15. Tenai B. C, J.M, Mbaria, G.M, Muchemi., Kanja., **J.G, Nduhiu.**, J.G, Nderitu, F.K, Gitau. (2016) 'Assessment of heavy metals concentration in water, soil sediment and biological tissues of the lesser flamingos in four eastern rift valley lakes', *African Journal of Environmental Science and Technology*, 10(6), pp. 162–166. Available at: <https://www.academicjournals.org/journal/AJEST/article-full-text-pdf/77652C659086>.
 16. Nakeel MJ, Arimi SM, Kitale PK, **Nduhiu G**, Njenga JM, et al. (2016) A Sero-epidemiological Survey of Brucellosis, Q-Fever and Leptospirosis in Livestock and Humans and Associated Risk Factors in Kajiado County-Kenya. *J Trop Dis* 4: 215. doi:10.4172/2329-891X.1000215
 17. 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. *J. Food Sci. Technol*, 2(3): pp 056-064.
 18. Eric Fevre, Victora Kyallo, James Akoko, Omoto Lazarus, Lorren Alumasa, Daniel Cheriyyot, Jenipher Ambaka, Fred Opinya, John Mwaniki, Hannah Kariuki, Gideon Mwali, George Omondi, Alice Kiyong'a, Lilian Abonyo, Maseno Cleophas, Fred Ambaka, Velma Kivali, Fred Amanyana, Allan Ogendo, **Nduhiu Gitahi**, Dishon Muloi, Maurice Karani, Patrick Muinde, Evaristo Malenge. Studies of zoonoses in dynamic livestock systems in Kenya. 2015. Web: www.zoonotic-diseases.org; Twitter: @ZoonoticDisease; International Livestock Institute and Institute of Infection and Global Health.

19. Njue L. G., Kanja L.W., Ombui J.N. **Nduhiu J.G.** and Obiero, D. 2014. Efficacy of antimicrobial activity of garlic extracts on bacterial pathogens commonly found to contaminate meat. *E. Afr. Med. J.* Vol.9 No. 12.
20. Kabui K.K., Arimi S.M., Kang'ethe E.K., Omoro A., Makokha S., **Nduhiu G.**, Mainga A.O. and Macharia J.K. 2014. A determination of raw milk quality and the most suitable microbiological test at the milk collection level in two regions of Kenya.
21. Gathumbi J.K., Kanja L.W., Maitho T.E., Mbaria J.M., **Nduhiu J.G.**, Gitau F.K., Nderitu J.G., Lucy M.W, and Maloba K. 2013. Assessment of lead and copper in fish and soil sediments in Kirinyaga South District, Kenya. *Journal of Applied Sciences in Environmental Sanitation*, 8 (3): 145-150.
22. William O. Ogara, **Nduhiu J. Gitahi**, Samuel A. Andanje, Nicolas Oguge, Dorcas W. Nduati and Alfred O. Mainga. 2010. Determination of carnivores' prey base by scat analysis in Samburu community group ranches in Kenya. *African Journal of Environmental Science and Technology*. Vol. 4(8), pp. 540-546, August 2010. Available online at <http://www.academicjournals.org/AJEST,ISSN 1991-637X> ©2010 Academic Journals.
23. Onono J.O., Ogara W.O., Okuthe S.O., **Nduhiu J.G.**, Mainga A.O. and Nduati D. 2010. Challenges of camel production in Samburu District, Kenya. *Journal of Camel Science* 3, 01-05.
24. Cyrus G. Wagate, James M. Mbaria, Daniel W. Gakuya, Mark O. Nanyingi, P. G. Kareru, Anne Njuguna, **Nduhiu Gitahi**, James K. Macharia and Francis K. Njonge. Screening of some Kenyan Medicinal Plants for Antibacterial Activity. *Phytother. Res.*, 2009. DOI: 10.1002/ptr.2866. Copyright © 2009 John Wiley & Sons, Ltd.
25. **Nduhiu Gitahi J.**, Jackson N. Ombui, Dorcas W. Nduati, Michael M Gicheru. Genetic Characterisation of food borne *Bacillus cereus* strains from milk, cheese and rice by multiplex PCR assay. *Inter J. of Integrative Biology*, 2009, 5, (2) 82-86.
26. Mbaka M., Gathura P. B., Njeru F.M., **Gitahi J.N.**, *et al.*, 2008. An assessment of the presence of *Escherichia coli* in the roof-collected rainwater from some areas around Nairobi. *The Kenya Veterinarian*, 23, 97-102.
27. Ombui J. N., **J. Nduhiu Gitahi.**, Gicheru M. M., Direct detection of enterotoxigenic *Bacillus cereus* in processed food by multiplex Polymerase Chain Reaction. *Inter J. of Integrative Biology*, 2008, 2, (3) 172-181.
28. Ombui, J.N., and **Nduhiu J.G.**, Macharia J.K. Immunoassay and polymerase chain reaction techniques for detection of enterotoxigenic *Bacillus cereus*. *E. Afr. Med. J.* 2005, 82, No. 8, 280 – 284.
29. Ombui, J.N. and **Nduhiu J.G.** Prevalence of enterotoxigenic *Bacillus Cereus* and its enterotoxins in milk and milk products in and around Nairobi. *E. Afr. Med. J.* 2005, 82, No. 6, 280 – 284.
30. Ombui J.N., A.M. Kimotho and **J.G. Nduhiu**. Antimicrobial resistance patterns and plasmid profiles of *staphylococcus aureus* isolated from milk and meat. *E. Afr. Med. J.* 2000, 77, 463-468.
31. Ombui J.N., Mathenge J.M., Kimotho A.M., Macharia J.K. and **Nduhiu J.G.** Frequency of antimicrobial resistance and plasmid profiles in *Bacillus cereus* strains isolated from milk. *E. Afr. Med. J.* 1996, 73, 380-384.
32. Ombui, J.N., Macharia J.K. and **Nduhiu J.G.** Frequency of antimicrobial resistance and plasmid profiles of *Escherichia coli* isolated from milk. *E. Afr. Med. J.* 1995, 72; 228-230.

33. Ombui J.N., Kaburia H.F.A., Macharia J.K. and **Nduhiu J.G.** Coliform counts and *Escherichia coli* in raw milk from dairy farmers in Kiambu district, Kenya E.9 Afr. Med. J. 1994, 71; 635-639.

CONFERENCES PAPERS/ PRESENTATIONS:

1. **Nduhiu Gitahi**, Gathura P. B., Mbaria J. M, and Muli M. Water bodies & Sanitation Challenges in Kenya: A case of the Nairobi River. 1st Health, Environment & Climate Change Conference. Safari Park Hotel, Nairobi Kenya. Held on December 2, 2019.
2. **Nduhiu Gitahi** and Ogara W. O. Diet reconstruction by hair scat analysis. Conference on Multidisciplinary approaches on Herbivores and Carnivores diet: From PAST to PRESENT an Integrated study on wild and domestic mammals' diet: ecological and zooarchaeological applications. National Museums of Kenya. November 27, 2019.
3. **Nduhiu Gitahi**, Gathura P. B. and Nordin A. PeePoo toilet bag: An innovative sanitation Solution Kenya Sanitation Conference 2019: Kenyatta International Convention Centre (KICC), Nairobi 31st October 2019.
4. **Nduhiu Gitahi**, Mbaria J. M and Muli M. Nairobi River Basin, how sick? National consultative forum on industrial effluent management in Kenya. Held on 6th September 2019 at Sarova Panafric hotel.
5. **Nduhiu Gitahi**, Ogeto Mwebi, Tom Gnoske, Troy Nowark and Julian Kebis Peterhans. Forensic insights into the predatory behavior of the 'Man-Eaters of Tsavo'. 2015. Presented at 5th EAAPP conference, held at Dar es Salaam. 3rd -6th August.
6. Akale J.E., Maina C.W., **Nduhiu G.**, Mainga A., Macharia J.K., and Kang'ethe E.K. Prevalence of cryptosporidia in dogs and cats from selected kennels and veterinary clinics in Nairobi, Kenya. 2014. Presented at 9th Biennial scientific conference and Exhibition, held at University of Nairobi Kenya 3rd – 5th September 2014.
7. Mbaria J.M., Ombui J.N., **Nduhiu J.**, Nguta J.M., Kahunyo J.M. and Nderitu J.G. Drug and chemical residues in camel milk in Nanyuki, Kenya. 2014. Presented at 9th Biennial scientific conference and Exhibition, held at University of Nairobi Kenya 3rd – 5th September 2014.
8. William O. Ogara¹, **Nduhiu Gitahi**¹, Samuel A. Andanje², Nicolas Oguge³, Alfred O. Mainga¹, Dorcas W. Nduati¹. One health approach to an integrated ecosystem study; A case of human carnivore conflict in Samburu County, Kenya. 2013. EAQUA. Presented at Sportmans Arms, Nanyuki, Kenya.
9. **Nduhiu Gitahi J.** Laboratory aspects of HIV/AIDS diagnosis and monitoring antiretroviral therapy. Seminar presented at University of Nairobi, Department of Public health Pharmacology & Toxicology 9th April 2008.
10. Wagate G. C., Gakuya D. W., Nanyingi M. O., Njoroge F. K., **Nduhiu G.** and Mbaria J. M. Antibacterial and cytotoxic activity of some Kenyan medicinal plants. Read at 6th Biennial scientific conference and Exhibition, held at University of Nairobi Kenya 17th – 19th September 2008.
11. Ogara W. O., **Nduhiu Gitahi J.**, Andanje S. A. and Oguge N. O. Determination of carnivore prey base in Samburu community group ranches by scat analysis. Read at 6th Biennial scientific conference and Exhibition, held at University of Nairobi Kenya 17th – 19th September 2008.
12. **Nduhiu Gitahi J.**, Ombui J. N. and Nduati D.W. Characterisation of food-borne enterotoxigenic *Bacillus cereus* strains from milk, cheese and rice by multiplex PCR assay.

Read at 6th Biennial scientific conference and Exhibition, held at University of Nairobi Kenya 17th – 19th September 2008.

13. Ombui, J. N., **Nduhiu J. G.** and M. M. Gicheru (2006). Direct detection of *Bacillus cereus* enterotoxin genes in food by multiplex polymerase chain reaction. FoodMicro2006 Conference in Bologna, Italy 28th August -3rd September 2006
14. Ombui JN., Otieno M. O., **Nduhiu J.G** and Macharia, J. K (2003). Detection of food borne *Bacillus cereus* in food. Food Africa Initiative, International Working Meeting, 5-9 May 2003, Yaounde, Cameroon.
15. S. M. Arimi, E. Koroti, E. K. Kang’ethe, A. O. Omore, J. J. McDermott, J.G. **Nduhiu**, J. K. Macharia and A. M. Githua. Risk of infection from *E. coli* 0157:H7 through informally marketed raw milk in Kenya. Read at 3rd African conference on Animal Agriculture and 11th conference of the Egypt Society of Animal product held at Alexandria Egypt 6th–9th November 2000.
16. Aboge, G. O., Kang’ethe E. K., Arimi, S. M., Kanja L.W., Omore A.O, McDermott J. J. **J.G. Nduhiu**, J.K. Macharia, AM. Githua , Antimicrobial agents detected in marketed milk in Kenya. Read at 3rd All African Conference on Animal Agriculture and 11th conference of the Egypt Society of Animal product held at Alexandria Egypt 6th – 9th November 2000.
17. Kang’ethe, E. K, Arimi, S. M., Omore A. O., McDermott J. J., **Nduhiu J.G.** The prevalence of antibodies to *Brucella abortus* in marketed milk in Kenya and its public health implications. Read at 3rd All African conference on Animal Agriculture and 11th conference of the Egypt Society of Animal product held at Alexandria Egypt 6th – 9th November 2000.

POST GRADUATE STUDENT SUPERVISION

Masters of Science - Completed

1. Gabriel Rullander April 2020. Charcoal vertical gardens as treatment of drain-water for irrigation reuse. – a performance evaluation in Kibera slum, Nairobi. Department of Energy and Technology, Swedish University of Agricultural sciences, Box 7070, SE - 750 07 Uppsala, Sweden. ISSN 1401-5765.
2. Niclas Grunewald: April 2020. Charcoal vertical gardens as treatment of drainwater for irrigation reuse. – a performance evaluation in Kibera slum, Nairobi. Department of Energy and Technology, Swedish University of Agricultural sciences, Box 7070, SE - 750 07 Uppsala, Sweden. ISSN 1401-5765.
3. Linnea Erikson, September 2020. Pathogen inactivation and quantitative microbial risk assessment for Peepoo sanitation system. Department of Energy and Technology, Swedish University of Agricultural sciences, Box 7070, SE - 750 07 Uppsala, Sweden. ISSN 1401-5765.
4. Lisa Sundberg: September 2020. Pathogen inactivation and quantitative microbial risk assessment for Peepoo sanitation system. Department of Energy and Technology, Swedish University of Agricultural sciences, Box 7070, SE - 750 07 Uppsala, Sweden. ISSN 1401-5765.

Masters of Science - On-going

1. Gachau Nataly Muriithi: June, 2019. Virulence genes of achieved *Campylobacter spp* isolated from asymptomatic school going children at Kibera, Nairobi County. Jomo Kenyatta University of Agriculture & Technology.
2. Dr. Elvis Madara Waga.J56/38932/2020. November 2021. Master of pharmacology & toxicology Thesis entitled “*Analysis of chemical residues and contaminants in aquaculture farms within Nairobi County, Kenya*” University of Nairobi.

WORKSHOPS AND CONFERENCES ATTENDED:

- Eppendorf Clinic. EME-0612-KEN-050. Laboratory Management and Equipment Operations Workshop. By Eppendorf Middle East with F&S Scientific Ltd. At ILRI, Kenya. 8th June, 2012.
- Advances in pest management and the role of veterinarians. University of Nairobi, Department of Public Health Pharmacology & Toxicology. 16th September, 2011.
- Alternatives to use of Animals in Experiments in Education and Training, Nairobi, Kenya. By African network for animal welfare and The international network for human education. 23-24th September, 2009.
- Roche Applied Science “High Throughput Sequencing” Workshop held at BecA/ILRI, Nairobi, Kenya. 12th February, 2009.
- 6th Biennial Scientific Conference & Exhibition, 2008. 17th -19th September, 2008. University of Nairobi, CAVS.
- Roche Applied Science “Inspiring Discovery” Workshop for Molecular & Cellular Sciences, Nairobi, Kenya, 2nd October 2008.

LABORATORY MANUALS & SOPs WRITTEN

1. Determination of Aflatoxin using Immunochromatographic test. October 2012. ©**Nduhiu Gitahi** and E.K. Kang’ethe.
2. Practical Immunology Manual, 1st Edition. (2001) © E. K. Kangethe and **Nduhiu Gitahi J.**
3. Determination of Aflatoxins M1 in Milk using enzyme Linked Immunosorbent Assay. May 2010. ©**Nduhiu Gitahi** and E.K. Kange’the.
4. Using Rida ®Soft win (ART.NO.Z9999) – ELISA results generation. May 2010.© **Nduhiu Gitahi** and E.K. Kange’the.
5. Determination of aflatoxins total in feeds using Enzyme Linked Immunosorbent Assay. May 2010. ©**Nduhiu Gitahi** and E.K. Kang’ethe.
6. Quantitative analysis of aflatoxin, Enzyme Immunoassay, (2008) © **Nduhiu Gitahi J.**

CONSULTANCY REPORTS

1. Effluent water analysis for Coninx Industries Ltd. Kikuyu Ondiri Rd. 2021
2. Analysis of the bacteriological and chemical quality of Nairobi Athi River basin from source to end. (2019). J. M. Mbaria, Nduhiu Gitahi and Paul Wafula. Daily Nation 16 August 2019.

<https://www.nation.co.ke/news/toxoc-flow-kenya/1056-5285256-10igiiiiz/index.html>
<https://www.nation.co.ke/news/toxic-flow-river-poison-two/1056-5240030-10jwdra/index.html>

3. Analysis of the bacteriological and chemical quality of Lake Victoria and its catchment basin from Kenya to start of Nile. (2020). Mbaria J. M., Nduhiu Gitahi and Paul Wafula. Daily Nation 17 February 2020. <https://www.nation.co.ke/nationprime/testing-lake-victoria-kenya/5279428-5458016-7pjt58z/index.html>
4. Analysis of milk for heavy metals, organochlorine pesticides residuals and aflatoxin M₁. (2019). KARLO. J. M. Mbaria and **Nduhiu Gitahi**.
5. Mycotoxins training in six (6) Counties and at the National level; FAOR/LoA No 018/2015. (2015) Kang'ethe E.K, Muthomi J.W., **Nduhiu Gitahi** and Nyaga P.N.; FAO – Ongoing.
6. Karanja N. K., Kamau S., **Nduhiu G.** and Odero J. Biological and chemical characterization of human faecal matter from Urine Diverting Dry Toilets (UDDTs) and its potential for use as fertilizer.
7. Sanitization of human faeces in Peepoos used in field setup. (2014). Gathura P.B., and **Nduhiu Gitahi**. Peepoople AB, SE-116 41 Stockholm Sweden.
8. Sanitization of human faeces when simulating field use of Peepoo. (2013). Ombui J.N., and **Nduhiu Gitahi**. Peepoople AB, SE-116 41 Stockholm Sweden.
9. Assessment of effectiveness of Peepoo bags on sanitization of human faeces. (2013). Ombui J.N., and **Nduhiu Gitahi**. Peepoople AB, SE-116 41 Stockholm Sweden.
10. Analysis of Camel milk for heavy metals, drugs, pesticide residues and aflatoxin M₁. (2012). Ministry of Livestock development. Mbaria J.M., and **Nduhiu Gitahi**.
11. Assessment of effectiveness of Peepoo bags on sanitization of human faeces. (2011). Senerwa D.M., and **Nduhiu Gitahi**. Peepoople AB, SE-116 41 Stockholm Sweden.
12. Analysis of meat for heavy metals and organochlorine pesticides residuals and milk for aflatoxin M₁. (2011). Ministry of Livestock development. Kanja W.L, Kitala P.M., Kahunyu J.M., and **Nduhiu Gitahi**.
13. Development of a workable disease control strategy in cattle. (2010). Maitho T., **Nduhiu Gitahi J.** and Macharia S.M. Ministry of Livestock development, Smallholder dairy commercialization programme.
14. Assessment of food and dairy oriented analytical laboratories in Kenya (2009). Jackson N. Ombui, Joseph M. Gathuma, Daniel M. Senerwa, **Nduhiu Gitahi J**, Hezron Wimbua, and Humphrey Kaburia. For Lands O Lakes, USAID Project.

FUNDED PROJECTS

1. “Addressing Livestock-derived Antimicrobial Pollution in the Nairobi River in Kenya”. **Funding Organisation:** Engineering and Physical Sciences Research Council (“EPSRC”); **Total funding:** £ 135037.63. Period: 1st June 2020 to 31st May 2021. **Position:** UoN Principal Investigator.
2. “Integrated studies on wild and domestic mammals’ diet: ecological and zooarcheological implications - *Tell-me what you are eating and I will tell who you are?*”. **Funding Organisation:** A grant under the 3RD call for Kenya – France PAMOJA Hubert Curien Partnership (PHC) programme. **Total funding:** KES 2,449,930

Period: Two years. NRF/KE-FR PAMOJA III/06/2018/19

Position: UoN Resource Person.

AWARD

Council of Africa:

Nduhiu Gitahi, Thomas Gnoske and Julia Kerbis, Support for Analysis of the diet of the 'Man-eaters of Tsavo' through direct examination of the hairs of prey found embedded in their teeth. \$ 4,710. May 23, 2017.

PROFESSIONAL REGISTRATION:

The Kenya Medical Laboratory Technicians and Technologists Board. REG. NO. A0622

RECOGNITION:

1. Certificate of Recognition: Outstanding Performance during the University of Nairobi staff performance appraisal period 2016/2017.
2. Certificate of special recognition: Exemplary Service to the College in the year 2017/2018.

COMMUNITY SERVICE:

1. Tested Primary Schools going children at Kibra Slums for geo-helminths and engaged mass deworming exercise by Evidence Action [WHO representative] in 2018.
2. Hosted Mama Ngina Secondary School for a Field day at the Department of Public Health, Pharmacology & Toxicology, University of Nairobi in 2019.
3. Media coverage of extreme levels of pollution of Nairobi River on 16 August 2019 and Lake Victoria on 17 February 2020.
4. Donation of microscope to Mama Ngina Secondary School. Kinoo Sub-County. Kikuyu County on February 12th 2021 with the Chairman Department of Public Health, Pharmacology & Toxicology.

REFEREES:

Prof. Michael M. Gicheru

Kenyatta University

Department of Zoological Sciences,

P.O. Box 43844

NAIROBI

Tel. +254722609765

mgicheru@africaonline.co.ke

Dr. Peter B. Gathura

University of Nairobi

Department of Public Health Pharmacology & Toxicology

P. O. Box 29053

NAIROBI.

Tel. +254700395373

pgathura@uonbi.ac.ke

Dr. Annika Nordin

Swedish University of Agriculture and Technology
Uppsala, Sweden
annika.c.nordin@slu.se