

CURRICULUM VITAE

PERSONAL BACKGROUND

Name: Dr. Senerwa Daniel Mugangai
Date of Birth: 20th March, 1959
Nationality: Kenyan
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Profession: Veterinary Surgeon KVB reg no 1688
Occupation: Lecturer in Veterinary Public Health at University of Nairobi
- 1989 to date
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EDUCATIONAL BACKGROUND

University Education

- Bachelor of Veterinary Medicine, 1985, University of Nairobi, Kenya
- Certificate in Molecular Biology, Norwegian College of Veterinary Medicine, Oslo, Norway 1988
- Master of Science in Public Health, Pharmacology and Toxicology, 1989, University of Nairobi, Kenya
- 6 months Course in Molecular Biology, Justus Lie Big University, Giessen, Germany 1993
- Graduate fellow at International Livestock Research Institute, Nairobi Kenya 2012-2016
- Currently PhD student in Veterinary public Health, Faculty of Veterinary Medicine, University of Nairobi.

LIST OF PUBLICATIONS

1. Daniel M. Senerwa (1989). M.Sc. Thesis, University of Nairobi, "Characterization of *Escherichia coli* and *Klebsiella pneumoniae* isolated from neonates in a nursery ward using DNA probes, plasmid profiles, and antimicrobial susceptibility patterns.
2. Senerwa, D., O. Olsvik, L.N. Mutanda, K.J. Lindqvist, J.M. Gathuma, K. Fossum and K. Wachsmuth (1989). Enteropathogenic *Escherichia coli* serotype 0111:HNT isolated from preterm neonates in Nairobi, Kenya. *J. Clin. Microbiol.* 27:1307-1311.
3. Senerwa, D., O. Olsvik, L.N. Mutanda, K.J. Lindqvist, J.M. Gathuma, K. Fossum and K. Wachsmuth (1989). Enteropathogenic *Escherichia coli* serotype 0111:HNT isolated from preterm neonates in Nairobi, Kenya. In O. Olsvik (ed). Genetic characterization of bacteria: use of plasmid profiles, restriction endonuclease digest patterns, and DNA hybridization, with examples from gram-negative bacteria. Paper VII. Norwegian College of Veterinary Medicine, Oslo, Norway.
4. Senerwa, D., O. Olsvik, L.N. Mutanda, K.J. Lindqvist, J.M. Gathuma, K. Fossum and K. Wachsmuth (1989). Colonization of neonates in a nursery ward with enteropathogenic *Escherichia coli* and correlation to the clinical histories of the children. *J. Clin. Microbiol.* 27:2539-2543.

5. Olsvik, O., Senerwa, D., J.M. Gathuma and L.N. Mutanda (1989). An outbreak of enteropathogenic *Escherichia coli* 0111:HNT among preterm neonates in a hospital in Nairobi, Kenya. Proceedings of the 3rd African Conference on Diarrhoeal Diseases: 19-25.
6. Olsvik, O., Senerwa, D., J.M. Gathuma and L.N. Mutanda (1989). Intestinal colonization of neonates with enteropathogenic *Escherichia coli* and the correlation to the childrens clinical history. Proceedings of the 3rd African Conference on Diarrhoeal Diseases: 30-34.
7. Diamiano, A.W., M. Kagiko, M. Kayihura and D. Senerwa (1989). *Aeromonas* species from fish from Kenyan waters. Proceedings of the 3rd African Conference on Diarrhoeal Diseases: 55-57.
8. Senerwa, D., O. Olsvik, and J.M. Gathuma (1989). Plasmid mediated antimicrobial resistance in Klebsiella pneumoniae strains isolated from neonates in a hospital ward. Bulletin of Animal Health and Production in Africa, Special Issue: 123-126.
9. Senerwa, D. and O. Olsvik (1990). Enteropathogenic *Escherichia coli* in Kenya neonates. In Applications of Molecular Biology in Diagnosis of Infectious Diseases, Olsvik, O., Bukholm, G. (Edt.), Norwegian College of Veterinary Medicine, Oslo, Norway. P. 21-25.
10. Senerwa, D., L.N. Mutanda, J.M. Gathuma and Olsvik, O. (1991). Antimicrobial resistance of enteropathogenic *Escherichia coli* strains from a nonsocomial outbreak in Kenya. Acta. Path. Microbiol. Immunol. Scand. 99: 728-734.
11. Kariuki, S., N.B. Mirza, Y. Wastenson, D. Senerwa, J.M. Gathuma and O. Olsvik (1992). Tetracycline resistance genes in Kenyan hospital isolates of *Salmonella typhimurium*. Acta. Path. Microbiol. Immunol. Scand. 100: 629-634.
12. Xiong G, J. Lin, P. Oepen, D.Senerwa, and F.Lutz. Control of effective expression of the phage lambda CTX-encoded ctx gene in Pseudomonas aureginosa by a promoter upstream the cos site (1998). Mol Gen Genet :257:247-254
- 13 Senerwa DM, Sirma AJ, Mtimet N, Kang’ethe EK, Grace D and JF Lindahl
Prevalence of aflatoxin in feeds and cow milk from five counties in Kenya (2016). African Journal of Food Nutrition and Development.16:1104-1121
14. Sirma AJ, Senerwa DM, Grace D, Makita K, Mtimet N, Kang’ethe EK and JF Lindahl. (2016).Aflatoxin B1 occurrence in Millet, Sorghum, and maize from four agro-ecological zones in Kenya. African Journal of Food Nutrition and Development.16:10991-11003
15. Kiama TN, Lindahl JF, Sirma AJ, Senerwa DM, Waithanji EM, Ochungo PA, Poole EJ, Kang’ethe EK and D Grace (2016). Kenya dairy farmers perception of moulds and mycotoxins and implications to exposure to aflatoxins: a gendered analysis. African Journal of Food Nutrition and Development.16:11106-11125
- 16.Ochungo P, Lindahl JF, Kayano T, Sirma AJ, Senerwa, DM, Kiama,TN and D Grace (2016). Mapping aflatoxin risk from milk consumption using biophysical and socio-economic data:A case study in Kenya. African Journal of Food Nutrition and Development.16:11066-11085
17. A.J Sirma, JF Lindahl, K. Makita, D. Senerwa, N. Mtimet, EK Kangethe, D.Grace,
The impacts of aflatoxin standards on health and nutrition in sub-saharan Africa: The case of Kenya (2018). Global food security 18:57-61
18. Anima J. Sirma, Kohei Makita , Delia Grace, Daniel Senerwa and Johanna F. Lindahl (2019). Aflatoxin exposure from milk in rural Kenya and contribution to the risk of liver cancer. Toxins 11:469

LIST OF ABSTRACTS

1. Senerwa, D., O. Olsvik, L.N. Mutanda, and K. Fossum. An outbreak of diarrhoea caused by enteropathogenic *Escherichia coli* 0111:HNT in a nursery ward for preterm babies. American Society for Microbiology 89th Annual Meeting 14-18th May 1989. New Orleans, La. (poster/slide session). American Society for Microbiology, Washington D.C. p. 350, L-15.
2. Senerwa, D., L.N. Mutanda, Olsvik, O. and J.M. Gathuma. Colonization pattern and mortality in preterm babies with enteropathogenic *Escherichia coli* 0111:HNT. In Programme and Abstracts of the 3rd African Conference on Diarrhoeal Diseases (AFCODD) 10th to 13th April 1989 at K.E.M.R.I., Nairobi, Kenya, p. 5.
3. Senerwa, D., L.N. Mutanda, Olsvik, O. and J.M. Gathuma. An outbreak of diarrhoea due to enteropathogenic *Escherichia coli* in a nursery ward. In Programme and Abstracts of 3rd African Conference on Diarrhoeal Diseases (AFCODD) 10th to 13th April 1989 at K.E.M.R.I., Nairobi, Kenya p. 4-5.
4. Senerwa DM, Mtimet N, Lindahl J, Kang'ethe EK and Grace D. 2013. *Levels of aflatoxins in the Kenyan dairy value chain: How can we assess the economic impact?* Poster presented at the First African Regional Conference of the International Association on Ecology and Health (Africa 2013Ecohealth), Grand-Bassam, Côte d'Ivoire, 1-5 October 2013.
5. Sirma AJ, Lindahl J, Kiama TN, Senerwa DM, Waithanji EM, Kang'ethe EK and Grace D. 2013. *Systematic literature review of mycotoxins with a One Health perspective.* Poster presented at the First African Regional Conference of the International Association on Ecology and Health (Africa 2013 Ecohealth), Grand-Bassam, Côte d'Ivoire, 1-5 October 2013.
6. Senerwa D. 2013. *The economic costs of aflatoxins in the Kenyan dairy value chain.* Presentation at a seminar on the current status of aflatoxin research and management at the International Livestock Research Institute (ILRI), Nairobi, Kenya, 22 August 2013.
7. Senerwa D, Mtimet N, Lindahl J, Kang'ethe E and Grace D. 2014. *Costs of aflatoxin in the Kenyan dairy value chain.* Poster presented at the FoodAfrica midterm seminar, Helsinki, Finland, 16 June 2014. <https://cgspace.cgiar.org/handle/10568/41686>
8. Sirma A, Senerwa D, Lindahl J, Makita K, Kang'ethe E and Grace D. 2014. *Aflatoxin M1 survey in dairy households in Kenya.* Poster presented at the FoodAfrica midterm seminar, Helsinki, Finland, 16 June 2014. <https://cgspace.cgiar.org/handle/10568/42440>
9. Sirma AJ, Senerwa DM, Lindahl JF, Kiama TN, Makita K, Kang'ethe EK, Grace D Aflatoxin M1 contamination of raw milk collected from households in four agro-ecological zones in Kenya OHCEA International One Health Conference 2015
10. 16-20 November, 2015, Kampala Uganda

11. Senerwa DM, Mtimet N, Sirma AJ, Nzuma J, Kangethe EK, Lindahl JF and Grace D. Direct market costs of aflatoxins in Kenyan dairy value chain Agriculture for Nurtition and Health(ANH) Academy Week 20-24 June 2016, Addis Ababa, Ethiopia,
12. Lindahl, J., **Senerwa**, D.M., Mwangi, G., Sirma, A.J., Atherstone, C. and Grace, D. 2016. Are **aflatoxins** a One Health issue? Results and insights from studies on **aflatoxins** in the East African dairy value chains. Conference abstract at the Development Research Conference 2016, Stockholm, Sweden, 22–24 August 2016.
13. <https://cgspace.cgiar.org/handle/10568/83024>
- 14.
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Consultancy Projects

1. Facilitated an FAO funded training of Meat Inspectors for Ministry of Livestock in Somaliland and Puntland 2012-2013.
2. Facilitated a study tour in Kenya of FAO sponsored Somalia Meat Industry players in April 2009
3. Carried out an assessment of food and dairy oriented analytical laboratories in Kenya December 1, 200 8- January 29, 2009 for Land'O'Lakes Inc.
4. Conducted a short training course on milk hygiene and technology for VSF Germany staff working in Somalia's Puntland in Spetember (Venue: Department of Public Health, Pharmacology and Toxicology, University of Nairobi)