

Dr. Chrilukovian B. Wasike

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Profile Picture



- 1. Summary:** Chrilukovian Bwire Wasike holds a Doctor of Agricultural Science (Dr. rer. agr.) degree from Humboldt-Universität zu Berlin in Germany with a bias in Animal Genetics and Breeding. He works as a lecturer and Chair of the Department of Animal Science, Maseno University. He previously worked with the Kenya Livestock Breeders' Organisation (KLBO) and the International Livestock Research Institute (ILRI). His previous research endeavours included quantitative genetic analyses of complex traits in dairy and beef animals in Kenya. Currently, Dr. Wasike's research interests include genetic and genomic analysis of functional traits (fertility, disease resistance and efficient feed utilisation) in livestock populations as well as optimisation of genetic evaluation models for the national cattle populations. He has authored/ co-authored several publications in scientific peer reviewed journals and proceedings.

2. Educational background

Level	Degree title; Grade attained; Institution; Year
Doctoral studies	Doctor of Agricultural Sciences (Dr. rer. agr); suma cum laude; Humboldt-Universität zu Berlin; 2011.
Graduate studies	M.Sc. Animal Production (Animal Breeding and Genetics); Distinction; Egerton University; 2006.
Undergraduate studies	B.Sc. Animal Production; First Class Honors; Egerton University; 2002.

3. Work Experience

A. **Current work station:** Maseno University; Lecturer and Chairman, Department of Animal Science

B. Previous work experience

February 2011 - August 2012: Pwani University College, *Lecturer of Animal Science*

December 2007 - January 2011: Humboldt University, *Research fellow*

January 2006 - December 2007: Ministry of Agriculture- Kilifi Institute of Agriculture, *Lecturer II of Animal Science and Production.*

June 2005 – January 2006: International Livestock Research Institute (ILRI), *Data analyst*

October 2004 - December 2004: Kenya livestock breeders' organisation- KLBO, *Contract Database Manager*

4. Postgraduate Student supervision (students who have since graduated)

Degree *Student/ project title/ university where registered*
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- PhD. 1. Namasaka, F.W. Effects of sequential teaching methods on achievement, retention and transfer of knowledge of biology by secondary school students in Kenya. *Pwani University* Graduated, 2015
- M.Sc 1. Wamugi, S.M.A. Evaluation of impacts of climate change and adaptation approaches in smallholder farming systems. *Pwani University*. Graduated, 2016
2. Miyumo, S. Genetic evaluation of feed use efficiency in indigenous chicken in Kenya *Egerton University*. Graduated, 2017

5. Research profile

A. Previous research

- i. Efficient utilisation of pedigree and performance data on genetic improvement of beef and dairy cattle genetic resources in Kenya
- ii. Improving Indigenous Chicken Productivity for Enhanced Livelihood and Food Security in Sub-Saharan Africa (InCIP).
- iii. Strengthening capacity for participatory management of indigenous livestock to foster agricultural innovation in Eastern, Southern and Western Africa (iLINOVA).

B. Ongoing research

- i. Genetics and immunity of indigenous chicken in Kenya
- ii. Influence of genotype and metagenomics analysis of indigenous chicken of Kenya; comparative analysis and functional inference for immune competence
- iii. Indigenous chicken farmers' attitude towards risk and agricultural insurance and its effects on productivity in Nyanza region, Kenya

6. Publications

A. Books

- i. **Wasike, C. B.** 2012. Genetics of growth and reproductive performance of Kenya Boran cattle; an evaluation using field data. LAP LAMBERT Academic Publishing, Saarbruecken. ISBN 978-3-659-18459-8. Pp 115.
- ii. **Wasike, C. B.** 2010. Efficient utilisation of pedigree and performance data in genetic improvement of beef and dairy cattle genetic resources in Kenya. Verlag Dr. Köster, Berlin. ISBN 978-3-89574-754-0. Pp 158. www.verlag-koester.de.

B. Selected papers in scientific peer reviewed journals

- i. Miyumo, S., Kahi, A.K. and **Wasike, C.B.** 2018. Genetic and phenotypic parameters for feed efficiency in indigenous chicken in Kenya. *Livestock Science* 207, 91–97

- ii. Khobondo J.O., Mwakubambanya, R., **Wasike, C.B.** and Kahi, A.K. 2017. Genetic and non-genetic sources of variation in natural antibodies titre values among indigenous chicken. *American Journal of Research Communication*, 5(7), 31- 45
- iii. **Wasike, C. B.**, Rolf, M., Silva, N. C. D., Puchala, R., Sahlu, T., Goetsch, A. L. and Gipson, T. A. 2016. 1683 Genome-wide association analysis of residual feed intake and milk yield in dairy goats. *Journal of Animal Science*, 94, suppl5, p820, doi:10.2527/jam2016-1683
- iv. Khobondo, J.O., Mwakubambanya, R., **Wasike, C.B.** and Kahi, A. K. 2016. Variation and Repeatability of Natural Antibodies against Keyhole Limpet Hemocyanin of Indigenous Chicken of Kenya. *Genomics and Applied Biology*, 7(4): 1-8, doi:10.5376/gab.2016.07.0004.
- v. Ojango, J.M.K, **Wasike, C.B.**, Enahoro, D.K. and Okeyo, A.M. 2016. Dairy production systems and the adoption of genetic and breeding technologies in Tanzania, Kenya, India and Nicaragua. *Animal Genetic Resources*, 59, 81–95, doi:10.1017/S2078633616000096
- vi. **Wasike, C. B.** 2015. A procedure for on-farm valuation of East Coast Fever management in dairy cattle systems: a case of Coastal lowlands of Kenya. *Livestock Research for Rural Development*. Volume 27, Article #197. Retrieved, from <http://www.lrrd.org/lrrd27/10/wasi27197.html>
- vii. **Wasike, C. B.**, Kahi, A. K. and Peters, K. J. 2011. Modelling of lactation curves of dairy cows based on monthly test day milk yield records under inconsistent milk recording scenarios. *Animal* 5:11, 1780–1790.
- viii. **Wasike, C. B.**, Ojango, J. M. K. And Kahi, A. K. 2009. Direct and maternal (Co)variance components and genetic parameters for growth and reproductive traits in Boran cattle in Kenya. *Tropical Animal Health and Production* 41, 741– 748.
- ix. **Wasike, C. B.**, Ilatsia, E. D., Ojango, J. M. K. and Kahi, A. K. 2006. Genetic parameters for weaning weight of Boran cattle accounting for direct-maternal genetic covariances. *South African Journal of Animal Science* 36 (4), 275- 281.

C. Selected Publications in peer review conference proceedings since 2010

- i. Okeno, T.O. and **Wasike, C.B.** 2016. Intensive livestock recording for sustainable breeding programs and adaptation strategy to climate change. *Presented at the 1st World Congress on Innovations for Livestock Development, Elementaita, Kenya*
- ii. **Wasike, C. B.**, Kahi, A. K. and Peters, K. J. 2014. Genetic relationship between lactation curve traits in dairy cattle. *Presented at the 10th World Congress on Genetics Applied to Livestock Production, Vancouver Canada.*
- iii. Kahi, A.K., **Wasike, C. B.** and Bett, R. C. 2012. Goat breeding in low input production systems: Integrating values and modern breeding technologies for improving intrinsic robustness. *XIth International Conference on Goats. Canary Islands, Spain. September 23rd- 27th 2012.*
- iv. **Wasike, C. B.**, T.M. Magothe, A. K. Kahi and K. J. Peters. 2010. Describing the lactation process of Ayrshire and Holstein Friesian cattle in Kenya using a Mechanistic lactation function. *9th World Congress on Genetics Applied to Livestock Production. Leipzig, Germany. August 1- 6, 2010. CD-Rom.*