

Curriculum Vitae

CAROLINE C. WAMBUI, PhD

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EDUCATIONAL BACKGROUND

2012 PhD, Global Arid Land Sciences, Animal Nutrition and Feed Utilisation, The United Graduate School of Agricultural Sciences, Tottori University, Japan

2006 MSc, Animal Production (Nutrition Option), Egerton University, Njoro, Kenya

2002 BSc, Animal Production, Egerton University, Njoro, Kenya

WORK & TEACHING EXPERIENCE

Since 2014 - Lecturer, Department of Animal & Fisheries Sciences, School of Agriculture, Food Security & Environmental Sciences, Maseno University

2012-2014 - Associate Dean, School of Pure and Applied Sciences, and Lecturer Department of Animal Production and Health, Mount Kenya University, Thika Main Campus, Kenya

2008-2012 - Graduate Research Fellow & Doctoral Student, Laboratory of Animal Science, Shimane University, Japan

2008 - Visiting Researcher, Texas A&M University -Texas Agri-Life Research and Extension Centre Stephenville, USA.

2007-2008 - Research Fellow, Norman Borlaug Leadership Enhancement in Agriculture Program (LEAP). ILRI, Nairobi, Kenya

2006-2008 - Research Assistant, Division of Research & Extension, Egerton University, Njoro, Kenya

RESEARCH

- Nutrient cycling to produce insects for feed and evaluation of the potential of insect protein as an alternative source of protein in non-ruminant diets
- Evaluation of non-conventional feed resources for feeding of ruminants in the tropics
- Application of tier 2 livestock activity data in the quantification of greenhouse gases from the livestock sector
- Evaluation of Biomethane potential of manure from dairy peri-urban systems in western Kenya
- Farmer training on climate smart dairy husbandry practises

AWARDS & GRANTS

2020-2022 Regional Forum for Capacity Building in Agriculture (RUFORUM) – Graduate Research Grant. Capacity Building for Mitigation of GHG Emissions and Improved Ruminant Productivity through Efficient Feeding and Manure Management Strategies in Agro-Pastoral Systems (PI)

May-July 2022 -GIAE -GIZ Dairy value chain Project implemented by GFA Consulting Group and collaborating with Department of Animal Science & Fisheries Maseno University. Targeted Radio sensitization broadcasts in western Kenya on climate change and its impact on dairy production (PI)

2021-2022 Kenya Nourishing Prosperity Alliance (KNPA- Consultancy) –. Fodder Economics and Barriers to Adoption of climate smart nutrient rich forages. (PI)

2007-2008 Norman E. Borlaug Leadership Enhancement in Agriculture Program (LEAP) Fellowship. ILRI. Tree Tannins: A Novel Approach to Parasite Control and Nutrition in Ruminants (Co-investigator).

SELECTED PEER-REVIEWED PUBLICATIONS (ORCID: 0000-0002-0007-3096, n= 12, H index=5)

- Ngaira, V.M., Wambui, C.C., Mosi, R.O., Wayua, F.O. and Ilatsia, E.D. 2022. Nutritional Value of German Cockroach Meal (*Blattela germanica*) as a SuperPRO Feed. *Asian Journal of Research in Animal and Veterinary Sciences* 10(1): 16-26, 2022; Article no. AJRAVS.90005
- Ngaira, V.M., Mosi, R.O., Wambui, C.C., Wayua, F.O. and Wachira, A.M. 2022. Effects of Organic Substrates on Development and Survival of *Blattela germanica* for Food and Feed in Kenya. *Open Journal of Animal Sciences*, 12, 484-492. <https://doi.org/10.4236/ojas.2022.123036>
- Vugutsa, J. E., Mosi, R. O., Wambui, C. C. 2022. Indigenous Knowledge on Production and Utilisation of Termite (Isoptera) in Western Kenya. *NASS Journal of Agricultural Sciences Vol 4 (1)* 41-48, <https://ojs.nassg.org/index.php/NJAS/article/view/424>
- Wasike, C., Wambui, C., Awino J., Schmidt, U. 2021. Bridging the knowledge and skills gap in dairy husbandry. *Rural 21 Vol. 5* 41-43 3. https://www.rural21.com/fileadmin/downloads/2021/en-01/rural2021_01-S41-43.pdf
- Njoroge, E. K., Wambui, C. C., Wasike, C. B. 2021. Nutritional composition, in vitro gas production and in sacco degradability of processed *Croton megalocarpus* nuts for ruminant feeding. *Online Journal of Animal and Feed Research Vol. 11 (2)* 36-45 4. <https://dx.doi.org/10.51227/ojaf.2021.7>
- Wambui, C. C., Njoroge, E. K., Wasike, C. B. 2018. Characterisation of physical egg qualities in indigenous chicken under free range system of production in Western Kenya. *Livestock Research for Rural Development. Vol. 30, Article #122*. Retrieved August 2, 2018, from <http://www.lrrd.org/lrrd30/7/wambu30122.html> 5.
- Emukule, J. I., Kipsat, M. J., Wambui, C. C. 2018. Determinants of Households' Market Participation around Community Milk Cooling Plants, Western Kenya. *Journal of Agricultural Science. Vol. 10, No. 3; 2018*. <https://doi:10.5539/jas.v10n3p204>
- Emukule, J. I., Wambui, C. C., Kipsat, M. J. 2018. Satisfaction Rating of Coordination Mechanisms by Dairy Producers around Community Milk Cooling Plants in Western Kenya. *Journal of Economics and Sustainable Development. Vol. 9, No.10, 2018*, <https://www.iiste.org/Journals/index.php/JEDS/article/view/42424>
- Wambui, C. C., Muir, J. P., Githiori, J., Lambert, B. D. 2013. In vitro organic matter disappearance of tanniferous browse using rumen liquid from goats ingesting grass versus browse. *African Journal of Range & Forage Science*. <http://dx.doi.org/10.2989/10220119.2013.813871> 8.
- Wambui, C.C., Ando, S., Abdulrazak, S. A., Osuga, I. M., Ichinohe, T. 2012. In vitro assessment of ruminal fermentation characteristics of tropical browse mixtures supplemented with yeast. *Grassland Science. Vol. 58 (1)* 53 – 57, <https://doi.org/10.1111/j.1744-697X.2011.00236.x>