

## Dr. Caroline C. Wambui

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### Profile Picture:



**Summary:** Caroline Wambui holds a Doctor of Philosophy (PhD) degree in Global Arid Land Science from the United Graduate School for Agricultural Sciences, Tottori University, Japan with a bias in Animal Nutrition. She holds BSc. and MSc. degrees in Animal Production from Egerton University, Kenya. Prior to her current appointment, she worked with Mount Kenya University, Thika Campus as a lecturer and Associate Dean at the School of Pure and Applied Sciences.

Dr. Wambui has conducted outstanding research on effective utilization of conventional feed resources for livestock feeding in tropical conditions. She also worked on monitoring of the dairy goat adoption rates in Nakuru Kenya in collaboration with a local non-governmental organization through student internships. Currently, she is investigating potential alternative protein sources for inclusion in livestock diets to improve feed use efficiency. Dr. Wambui has presented papers in various scientific fora, is a MONBUKAGAKUSHO and Borlaug fellow, and has authored/ co-authored publications in scientific peer reviewed journals and conference proceedings.

### **Educational Background:**

**Ph.D** Global Arid Land Science. The United Graduate School for Agricultural Sciences, Tottori University, Tottori City, Japan. March, 2012. Thesis titled: *Evaluation of the associative effects of mixing Kenyan tree browse foliages and yeast supplementation on digestion in ruminants*

**M.Sc** Animal Production (Nutrition option); Egerton University, Njoro Kenya. October 2006. Thesis titled: *Evaluation of wild sunflower (Tithonia diversifolia) as a protein supplement for growing dairy goats in western Kenya.*

**B.Sc** Animal Production (First Class Honours); Egerton University, Njoro Kenya.

### **Work experience:**

**May 2014 - Present** – Lecturer, Department of Animal Science, School of Agriculture & Food Security, **Maseno University**. Duties and responsibilities: Training and supervision of undergraduate and post graduates. Department’s Examination Coordinator

**June 2012 to April 2014** – **Associate Dean** School of Pure and Applied Sciences and Lecturer Department of Animal Health and Production; **Mount Kenya University** (MKU Thika, Main Campus).

### **Post graduate supervision**

**Grace M. Kamotho. 2015.** Masters of Education Planning Management & Administration Mount Kenya University. Thesis titled: *“Influence of Selected Factors on Learning Activities Among Students in Mixed Day Secondary Schools in Njoro Sub County, Nakuru County, Kenya”* (COMPLETED).

### **Research profile**

#### **Previous research activities**

- i. Assessing the anthelmintic potential of selected browse species in Kenya
- ii. Determination of condensed tannin content and its effect on the digestibility of browse species from semi-arid regions of Kenya.

#### **Current research activities**

- i. Determinants of Market Participation in Western Kenya Community Milk Cooling Plants
- ii. Evaluation of the nutritional value and utilization potential of Croton megalocarpus seeds as a protein supplement in poultry diets

### **Publications**

1. **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. Volume 30, Article #122.* Retrieved August 2, 2018, from <http://www.lrrd.org/lrrd30/7/wambu30122.html>
2. 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.* URL: <https://doi.org/10.5539/jas.v10n3p204>
3. Kamotho, G.M., **Wambui C.,** and Mutie S. 2015. Influence of school based factors on learning activities in mixed day secondary schools in Njoro sub-county. *International Journal of Science and Research ISSN (online):2743-7990*
4. **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>
5. **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.*
6. **Wambui, C.C.,** Awano, T., Ando, S., Abdulrazak, S.A., Ichinohe, T. 2010. Effect of yeast supplementation on in vitro ruminal degradability of selected browse species from Kenya. *Journal of Food, Agriculture & Environment Vol.8 (2) 553–557*
7. Osuga, I.M., **Wambui, C.C.,** Abdulrazak, S.A., Ichinohe, T., Fujihara, T. 2008. Evaluation of nutritive value and palatability by goats and sheep of selected browse foliages from semiarid area of Kenya. *Animal Science Journal Vol 79, 582–589*
8. **Wambui, C.C.,** Abdulrazak, S.A., Noordin, Q. 2006. The effects of supplementing urea treated maize stover with Tithonia, Calliandra and Sesbania as protein supplement for growing goats.

*Livestock Research for Rural Development. Volume 18, Article#64*  
<http://www.copav.org.co/lrrd18/5/abdu18064.htm>

9. **Wambui, C.C.**, Abdulrazak, S.A., Noordin, Q. 2006. Performance of growing goats fed urea sprayed maize stover and supplemented with graded levels of *Tithonia diversifolia*. *Asian Australasian Journal of Animal Science. Vol. 19, No. 7. 992–996*

**Proceedings and others**

10. Ochien'g, A. A., Muiruri, D., Wasike, C.B. & **Wambui, C.C.** 2016. Impact of Dairy Goats among Smallholder Farmers in Nakuru, Kenya. . In: Proceedings of Annual Animal Production Society of Kenya Scientific Symposium. Kisumu Hotel, Kenya. April 27 -28, 2016
11. **Wambui, C.C.**, Ando, S., Ichinohe, T. 2013. Associative effects from of tanniniferous browse mixtures: a simple tool to improve livestock feed resources. Proceedings of *Mount Kenya University Annual Research and Innovation Conference. Safari Park Hotel, Nairobi Kenya. August 28-30, 2013.*
12. **Caroline C. Wambui.** 2009. Tree Tannins: A Novel Approach to Parasite Control and Nutrition in Ruminants. Research Brief F07-09-02 April 2009. Norman E. Borlaug Leadership Enhancement in Agriculture Program Fellow, 2007-2008. University of California – Davis. Web leap.ucdavis.edu