

CV: DR. SHEILA CECILY OMMEH

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Animal Biotechnology Group

Institute of Biotechnology Research - IBR

RESEARCH INTERESTS

- Population genomics
- Phylogenomics
- Molecular evolution
- Genomic selection
- Bioinformatics
- Linux and programming
- Transgenics
- *in vitro/in vivo* host-pathogen interactions
- Transcriptomics

RELEVANT WORK EXPERIENCE

October 2012 to date: Research fellow/Lecturer Institute of Biotechnology Research Jomo-Kenyatta University of Agriculture and technology

January 2012 to June 2012: Research Fellow, Biosciences Eastern and Central Africa Hub at the International Livestock Research Institute.

March 2009 to April 2010: Visiting scientist at Paco Tecnologico Padano in Lodi-Milan Italy. Research work focused on chicken genomics under the Functional genomics group.

September 2008 to December 2008: Short term visiting scientist at National research institute on animal genomics at RDA Suwon Korea. Research work focused on *in vitro* tissue culture and candidate genes toward disease resistance to avian influenza.

EDUCATION

March 2012: PhD. Degree in Molecular Genetics; Tuscia University Viterbo, Italy.

June 2008: MSc. Degree in Biotechnology; Kenyatta University Nairobi.

October 2002: BSc. Degree in Biomedical Science and Technology; Egerton University Njoro Kenya.

AWARDS AND RECOGNITION

1st September 2008 to 31st August 2010: African women in Agriculture, research and Development (AWARD) fellowship; <http://www.awardfellowships.org/>.

October 2009: Recognition of most promising young scientist and a token of 3000 Euros towards research by the Lions Club Italian chapter. <http://www.108ib3.it/comunicazioni/0910-2.html>.

PUBLICATIONS

1. Book Chapter: Genomics and potential downstream applications in the developing world. Appolinaire Djikeng, **Sheila Ommeh** Sitati Sangura, Isaac Njaci and Mtakai Ngara. Springerlink 2012.

2. Basic Molecular Evolution Workshop – A trans-African virtual training course. “Virtual Workshops”: Is Africa ready to embrace the concept? **Sheila Ommeh**, Aidan Budd, Mtakai Ngara, Isaac Njaci and Etienne de Villiers *BioEssays* volume 33 (4): 243-247 April 2011. First published online 11 February 2011, DOI 10.1002/bies.201000139

3. Nelson N. Gichora, Segun A. Fatumo, Mtakai V. Ngara, Noura Chelbat, Kavisha Ramdayal, Kenneth B. Opap, Geoffrey H. Siwo, Marion O. Adebisi, Amina El Gonnouni, Denis Zofou, Amal A. M. Maurady, Ezekiel F. Adebisi, Etienne P. de Villiers, Daniel K. Masiga, Jeffrey W. Bizzaro, Prashanth Suravajhala, **Sheila C. Ommeh** *, and Winston Hide. 2010 Ten Simple Rules for Organizing a Virtual Conference—Anywhere. *PLoS Computational Biology* 6(2): e1000650. doi:10.1371/journal.pcbi.1000650. * **Corresponding author.**

4. Sheila Ommeh, L. N. Jin, H. Eding, F. C. Muchadeyi, S. Sulandari, M. S. A. Zein, G. Danbaro, C. E. Wani, S. G. Zhao, Q. H. Nie, X. Q. Zhang, M. Ndila, R. Preisinger, G. H. Chen, I. A. Yousif, K.-N Heo, S. J. Oh, M. Tapio, D. Masiga, O. Hanotte, H. Jianlin, and S. Weigend. Geographic and breed distribution patterns of an A/G polymorphism suggest balanced selection at the chicken Mx gene. *International Journal of Poultry Science* 2010 (1): 32-38.

5. Hanta Razafindraibe, Victor Mobegi, **Sheila Ommeh**, Rakotondraivo, Gro Bjornstad, Olivier Hanotte and Han Jianlin (2008). Mitochondrial DNA origin of Indigenous Malagasy Chicken. Implication for a functional polymorphism at the Mx gene. *Annals of New York Academy of Science*. 2008.1149: 77-79

6. Nduati E, Diriye A, **Ommeh S**, Mwai L, Kiara S, Masseno V, Kokwaro G, Nzila A. Effect of folate derivatives on the activity of antifolate drugs used against malaria and cancer. *Parasitology Research*. 2008 May; 102(6):1227-34. Epub 2008 Feb 9.

7. Sheila Ommeh, Eunice Nduati, Eddy Mberu, Gilbert Kokwaro, Kevin Marsh, Andre Rosowsky and Alexis Nzila. In vitro activity of 2, 4-diaminoquinazoline and 2, 4-diaminopteridinederivatives against *Plasmodium falciparum*. *Antimicrobial agents Chemotherapy* Oct. 2004, Vol 48, No.10.

REFEREES

1. Dr. Okeyo Mwai
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