

**Philemon N. Wambura curriculum vitae**

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BVM (1991) Sokoine University of Agriculture, Tanzania  
MVM (1995) Sokoine University of Agriculture, Tanzania  
PhD (2003) University of Queensland, Australia

**Last 3 positions:**

- Associate Professor in Microbiology SUA from 1/7/2007 to date
- Senior Lecturer in Microbiology SUA from 02/02/2004 to 30/6/2007
- Senior Research officer, Central Veterinary Laboratory, Dar Es Salaam from 1998 to 2004

**Recent grants:**

- Collaborating Researcher in a research titled “Investigation on lethal zoonoses and potential emerging and re-emerging infectious diseases in Africa” supported by Grant-in-Aid for scientific research from Japanese Society for the promotion of Science (JSPS) through the University of Gifu, Japan (2005-2008).

**Selected recent publications (Out of more 40 publications):**

- **Wambura, P. N.**, 2009. Vaccination of chickens using raw rice coated with novel trehalose nano-organogels containing Newcastle disease (strain I-2) vaccine. *Tropical Animal Health and Production* 41,797-802.
- **Wambura, P. N.**, 2009. Oral vaccination of chickens against Newcastle disease with I-2 vaccine coated on oiled rice. *Tropical Animal Health and Production* 41,205-208.
- **Wambura, P. N.**, 2009. Protective antibody response produced by the chickens vaccinated with green coloured thermostable Newcastle disease virus. *Tropical Animal Health and Production* 41,149-152.
- Kasanga C.J., Yamaguchi T., **Wambura P.N.**, Munang’andu, H.M., Ohya K. and Fukushi H., 2008. Detection of Infectious bursal disease virus (IBDV) genome in free-living pigeon and guinea fowls in Africa suggests involvement of wild birds in the epidemiology of IBDV. *Virus Genes* 36, 521-529.

- Kasanga C. J., Yamaguchi T., **Wambura P.N.**, Maeda-Machangu A. D., Ohya K., Fukushi H., 2007. Molecular characterization of infectious bursal disease virus (IBDV): Diversity of very virulent IBDV in Tanzania. *Archives of Virology* 152 (4), 783-790.
- **Wambura, P. N.**, 2007. Electronic monitoring of storage and transport temperatures of thermostable Newcastle Disease vaccine (strain I-2) from manufacturer to rural community vaccinators. *Tanzania Veterinary Journal* 24, 67-73.
- **Wambura P.**, J. Meers and P. Spradbrow, 2007. Survival of avirulent thermostable *Newcastle disease virus* (strain I-2) in raw, baked, oiled and cooked white rice at ambient temperatures. *Journal of Veterinary Science* 8 (3), 303-305.
- **Wambura, P. N.**, J. Meers, J.A. Kattenbelt, A.R. Gould and P.B. Spradbrow, 2007. Deduced Amino Acid Sequences Surrounding the Fusion Glycoprotein Cleavage Site and of Carboxyl-terminus of Haemagglutinin-Neuraminidase Protein of the Avirulent Thermostable Vaccine Strain I-2 of *Newcastle disease virus*. *Veterinary Research Communications* 31, 105-112.
- **Wambura P.**, J. Meers and P. Spradbrow, 2006. Development of a rapid biological assay for determination of potency of Newcastle disease vaccine (strain I-2). *Tropical Animal Health and Production* 38 (6), 463-466.
- **Wambura P.**, J. Meers and P. Spradbrow, 2006. Thermostability profile of *Newcastle disease virus* (strain I-2) following serial passages without heat selection. *Tropical Animal Health and Production* 38 (7-8), 527-531.
- **Wambura, P. N.**, H. G. Makuri, A. S. Hoza, H. Tuntufye, and L. S. B. Mellau (2006). Application of Microagglutination test for detection of antibodies to *Salmonella gallinarum* in commercial layer chickens. *Bulletin of Animal Health and Production in Africa* 54 (2), 124-130.
- **Wambura, P. N.**, 2006. Use of virus suspensions without RNA extraction as RT-PCR templates for detection of *Newcastle disease virus*. *African Journal of Biotechnology* 5 (19), 1722-1724.
- **Wambura, P. N.**, 2006. Impregnation and storage of *Newcastle disease virus* on to filter papers and detection of viral RNA by single tube RT-PCR assay. *African Journal of Biotechnology* 5 (1), 21-24.
- **Wambura P.**, J. Meers and P. Spradbrow, 2006. Development of a cell culture method for quantal assay of strain I-2 of *Newcastle disease virus*. *Veterinary Research Communications* 30, 689-696.
- **Wambura, P.**, J. Meers and P. Spradbrow, 2006. Determination of organ tropism for *Newcastle disease virus* (strain I-2) by virus isolation and reverse transcription polymerase chain reaction. *Veterinary Research Communications* 30, 697-706.

- **Wambura P. N.**, 2006. Comparative propagation of *Newcastle disease virus* (strain I-2 and V4) on chicken embryo tracheal explants. *Veterinary Research Communications* 30, 673-677.
- **Wambura P. N.**, J. Masambu J. and H. Msami, 2006. Molecular diagnosis and epidemiology of African swine fever outbreaks in Tanzania. *Veterinary Research Communications* 30, 667-672.

### **Philemon Wambura Track Record**

**Philemon of Wambura** is an associate Professor of Microbiology and the Dean, Faculty of Veterinary Medicine, SUA. He has over 18 years of research and teaching experience at Sokoine University of Agriculture (Tanzania), Central Veterinary Laboratory (Tanzania), Livestock Training Institute, Tengeru (Tanzania) and University of Queensland (Australia). He has done research in the areas of vaccine development and advanced diagnostic techniques in diseases of veterinary and public health importance. He has published more than 40 articles in refereed international and local journals and proceedings.

He was a collaborating researcher in a project titled “Investigation on lethal zoonoses and potential emerging and re-emerging infectious diseases in Africa” supported by Grant-in-Aid for scientific research from Japanese Society for the promotion of Science (JSPS) through the University of Gifu, Japan (2005-2008).

He is a component leader in “One Health/One Medicine” research projects under a consortium known as Southern Africa Centre for Infectious Diseases (SACIDS) funded jointly by Wellcome Trust, Google and Rockefeller Foundation.

He is currently a South Coordinator in a Norwegian Programme for Development, Research and Education (NUFU). The programme is funded by NORAD from 2007-2011. The NUFU programme supports independent academic cooperation based on initiatives from researchers and institutions in the South their partners in Norway. The NUFU project ZOOTOX 2007-11 in the south involves Zambia, Uganda, Tanzania, Zimbabwe, Mozambique and South-Africa.