

CURRICULUM VITAE

1.0 BIODATA:

NAME :Nerima Barbara

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2.0 RESEARCH INTERESTS

My research interests are in the area of Molecular parasitology. I have particular interest in Genomics and Systems biology. I would like to use genomic tools to understand mechanisms parasites use to evade host immune systems, drug resistance, and disease mechanism. I have mainly been involved in African Trypanosomiasis research with the main focus of diagnostics, treatment and drug resistance. During a career break (2012-2015) I was the Coordinator of the Makerere University Uganda Virus Research Institute Research training programme in Infection and Immunity (MUII) and hence have interest in capacity building.

3.0 ACADEMIC QUALIFICATIONS

-November 2005-May, 2009: PhD in Science, University of Bern, Switzerland.

-October 2002-March 2005: MSc in Molecular Biology. Makerere University, Uganda.

-October 1998-July 2001: Bachelor of Science Degree in Biochemistry/Chemistry, Makerere University, Uganda.

-October 1995-July 1997: Diploma in Secondary Education (Physics/ Chemistry): National Teachers' College Nkozi, Uganda

4.0 WORKSHOPS AND SHORT COURSES

I have attended many workshops and short courses ranging from specialized training such as Basic Immunology, Immunology in the Topics, Functional genomics and systems biology, Multiple Ligation-dependent Probe Amplification assay, Microarray analysis, RNA interference, GWAS Data analysis, to Good laboratory practice, Biorisk management, Biosafety, Biosecurity and Bioethics, Research ethics, non-specialist trainings/workshops such as Curriculum development, Lecturing and teaching Skills, monitoring and evaluation, Financial management, Farming systems and Farmer participatory approaches, Bioometrics, Media engagement, Presentation and communication skills, Project Planning and Management, Monitoring and Evaluation, Open Data kit, to mention but a few.

5.0 POSITIONS/EMPLOYMENT

i) June 2018- to-date Lecturer, Department of Biochemistry and Sports Science, College of Natural Sciences, Makerere University

ii) April 2016 – April 2016 Project Manager, TrypanoGEN Network, (COVAB), Makerere University

iii) October 2015 –Sept 2016 Post-doctoral Research Fellow, College of Veterinary Medicine, Animal resources and Biosecurity (COVAB), Makerere University

iv) Jan 2012- todate: Post-doctoral Research Fellow, Uganda Virus Research Institute, Entebbe, Uganda.

v) 2009- 2011 Research Officer I, National Livestock Resources Research Institute (NaLIRRI), Tororo, Uganda.

vi) 2005-2009: Research Officer II, Livestock Health Research Institute (Now NaLIRRI).

vii) 2002-2005: Research Assistant, Livestock Health Research Institute.

6.0 OTHER APPOINTMENTS

a) 2009- October, 2011: Foundation for Innovative New Diagnostics (FIND) Consultant on African Trypanosomiasis

b). August 2010- Dec, 2012: Member of the NARO Taskforce writing the NARO Biotechnology Strategy.

c) Supervision of students.

-2015-2017. John Vianney Tushabe, Msc Molecular Biology and Biotechnology , Makerere University

-2012-2014- Justine Bukirwa, MSc Immunology and Clinical Microbiology, Makerere University.

-November 2006-March 2008. Bachelors` students, University of Bern, Molecular Biology Practicals.

-April-June, 2008: Erminia Nally-Meyrat. PhD student, Université de Neuchâtel, Swiss Tropical Institute, Basel.

d) Examination of theses

I have examined six theses (three MSc, two PhD) from Makerere University and one MSc from Gulu University. For one of the PhD theses I was the Opponent

e) Review of papers:

-PLoS Neglected Diseases: Should I Get Screened for Sleeping Sickness? A Qualitative Study in Kasai Province, Democratic Republic of Congo.

-African Journal of Food Science: To study preparation of Synbiotic Corn extract Against Dysentery-causing Organisms.

7.0 PUBLICATIONS

i) Sally N. Adebamowo, Veronica Francis, Ernest Tambo, Seybou H. Diallo, Guida Landouré, Victoria Nembaware, Eileen Dareng, Babu Muhamed, Michael Odutola, Teniola Akeredolu, Barbara Nerima, Petronilla J. Ozumba, Slee Mbhele, Anita Ghanash, Ablo P. Wachinou, and Nicholas Ngomi, of the H3Africa Study Coordinators Working Group as members of the H3A Consortium. Implementation of genomics research in Africa: challenges and recommendations. Glob Health Action. 2018; 11(1): 1419033.

ii) Monica Namayanja¹, Yan Dai, Barbara Nerima, Enock Matovu, Zhao-Rong Lun, George W. Lubega, Chen Zhengjun. Trypanosoma brucei brucei traverses different biological barriers differently and may modify the host plasma membrane in the process, *Experimental Parasitology*, 2016

iii) Stephen Cose, Bernard Bagaya, Barbara Nerima, Moses Joloba, Andrew Kambugu, Robert Tweyongyere, David Dunne, Edward Mbidde, Pontiano Kaleebu and Alison M. Elliott. Immunology in Africa. Tropical Medicine and Internal Health, 2015

iv) Margaret Nampijja, Emily L Webb², James Kaweesa, Robert Kizindo, Milly Namutebi, Esther Nakazibwe, Gloria Oduru, Prossy Kabuubi, Joyce Kabagenyi, Dennison Kizito, Lawrence Muhangi, Mirriam Akello, Jaco J Verweij, Barbara Nerima, Edridah Tukahebwa, Alison M Elliott and for the LaVIISWA trial team, The Lake Victoria Island Intervention Study on Worms and Allergy-related diseases (LaVIISWA): study protocol for a randomized controlled trial. TRIALS, 2015

v) Alison Elliott, Barbara Nerima, Bernard Bagaya, Andrew Kambugu, Moses Joloba, Stephen Cose, Guiseppe Pantaleo, Maria Yazdanbakhsh, David Mabey, David Dunne, Ashley Moffett, Eli Katunguka Rwakishaya, Pontiano Kaleebu, Edward Katongole Mbidde. Capacity for science in Africa. Lancet, 2015

vi) Xin Zhao, Thiago Luiz, Alves e Silva, Laura Cronin, Amy F. Savage, Michelle O'Neill, Barbara Nerima, Loyce M. Okedi, Serap Aksoy. Immunogenicity and serological cross-reactivity of saliva proteins among different tsetse 1 species. PLOS ONE, 2015

vii) Barbara Nerima, Daniel Nilson and Pascal Mäser. Comparative genomics of metabolic networks of free-living and parasitic eukaryotes. *BMC Genomics*, Vol 11:217, 2010.

viii) Kazibwe, Anne J. N., Nerima, Barbara, De Koning, Harry P., Mäser, Pascal, Barrett, Michael P., Matovu, Enock. Genotypic Status of the TbAT1/P2 Adenosine Transporter of *Trypanosoma brucei gambiense* Isolates from Northwestern Uganda following Melarsoprol Withdrawal. *PLOS Neglected Tropical Diseases* Volume 3, Issue 9, e523 pp1-7, 2009.

ix) Daniel J. Bridges, Matthew K. Gould, Barbara Nerima, Pascal Mäser, Richard J. S. Burchmore, and Harry P. de Koning. Loss of the High-Affinity Pentamidine Transporter Is Responsible for High Levels of Cross-Resistance between Arsenical and Diamidine Drugs in African Trypanosomes. *Mol Pharmacol* 71:1098-1108, 2007.

x) Sonja C. Bernhard, Barbara Nerima, Pascal Mäser, Reto Brun. Melarsoprol- and pentamidine-resistant *Trypanosoma brucei rhodesiense* populations and their cross-resistance. *International Journal for Parasitology* 37 (2007) 1443-1448.

xi) Nerima B, Matovu E, Lubega GW, Enyaru JC. Detection of mutant P2 adenosine transporter (TbAT1) gene in *Trypanosoma brucei gambiense* isolates from northwest Uganda using allele-specific polymerase chain reaction. *Trop Med Int Health* 2007;12(11):1361-8.

xii) Enyaru John Charles K; Matovu Enock; Nerima Barbra; Akol Margaret; Sebikali Charles. Detection of *T. b. rhodesiense* trypanosomes in humans and domestic animals in south east Uganda by amplification of serum resistance-associated gene. *Annals of the New York Academy of Sciences* 1081: 311-319, 2006.

xiii). Alexandra Lüscher, Barbara Nerima, Pascal Mäser. Combined contribution of *TbAT1* and *TbMRPA* to drug resistance in *Trypanosoma brucei*. *Molecular & Biochemical Parasitology* 150 (2006) 364-366.

8.0 REFEREES:

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3. Prof. Pascal Mäser,
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