

CURRICULUM VITAE

1) Personal information:

Surname: **Enyaru**

First names: John Charles Kiboko

Date and Country of birth: 1947 - Uganda

Qualifications: **B.Sc.** Biochemistry & Zoology, Makerere University, Kampala, Uganda - 1971; **M.Sc.** Biochemistry, University of London, U.K. - 1982; **Ph. D.** Biochemistry, Makerere University, Kampala. Uganda-1993

Address and contact numbers: All Saints University Lango (ASUL), P.O. Box 32, Lira City, Uganda.

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2) Summary:

John Charles Kiboko Enyaru is a Science Professor. In 1993, he was awarded a PhD by Makerere University, Kampala, Uganda. He is endowed with extensive teaching experience in the university academic arena. He has lectured in Makerere University, Kampala for 16 years, and currently he is establishing a research unit at All Saints University Lango (ASUL).

The relevance of his qualifications are based on his training and hands on experiences in the Biochemistry laboratories that investigated diseases and contributed to perfecting treatments in the medical (human) and veterinary (animals) fields. In the health sector, the contributions have been on investigations on epidemic diseases.

Out of the 25 research projects, 9 involved multiple countries; and John was the Principal Investigator (PI) in 14, and Co-Investigator (CI) in 11 of them. The following are some of the projects he and his team successfully implemented: **(1) 2020-2022:** CI. "Uptake of Public Health Practices for Prevention of COVID-19 Among Refugees, Pastoralist Communities, Truck Drivers and Slum Dwellers in Uganda." **Code** :GCRF_NF138. Funded by the UK Government through the United Kingdom Research and Innovations (UKRI); **(2) 2009-2013:** PI "Development and application of Xenomonitoring tools for the detection of trypanosomes in tsetse flies in endemic countries." **Code:** 49042.01. **Funded by:** Bill and Melinda Gates Foundation; **(3) 2013-2017:** PI. "An integrated approach to the identification of genetic determinants of susceptibility to trypanosomiasis." **Code** :H₃A. Funded by: Wellcome Trust and NIH; **(4) 2010-2012:** PI. "Next generation sequencing of East African trypanosomes to expand the molecular epidemiology toolbox." **Code** C12A11284 (A8550). Funded by: Yale University and NIH, USA; **(5) 2010-2013:** PI. "Transcriptomics and proteomics in human sleeping sickness pathogenesis and diagnosis." **Code** CL 112/15. Funded by: DFG, Germany; **(6) 2008-2009:** PI. "Differential diagnosis of African trypanosomiasis in tsetse flies." Funded by: Biosciences of East and Central Africa Network (BEcaNet); **(7) 2007-2009:** PI. "Differential diagnosis of Animal African trypanosomiasis." **Code:** MAK2006/0189. **Funded by:** School of Postgraduate Studies, Makerere University, Kampala, Uganda; **(8) 2007-2009:** PI. "Improvement of CBPP diagnosis and surveillance system for increased productivity in rural cattle production systems." **Code:** CGS no2006/27-CBPP. **Funded by:** National Agricultural Research Organization (NARO) Competitive Grant Scheme, Uganda; **(9) 2009-2010:** CI "Biomarker discovery for staging sleeping sickness patients." Funded by: FIND, Switzerland; **(10) 1994:** PI. "Improvement of trypanosomiasis control in Uganda." Funded by the Swiss Development of Co-operation through collaboration with the Swiss Tropical Institute (STI); **(11).** 1995: PI. "Gender differential in detection and control of human trypanosomiasis in south east Uganda." Funded by: WHO/TDR: ID950338; **(12) 1996:** PI. "Gambiense trypanosomiasis: Isolation of trypanosomes from relapsed sleeping sickness patients." Funded by: WHO/TDR: ID 950829; **(13) 1998:** PI "Multicentre evaluation of the specificity of CIATT in field diagnosis of *T.b.gambiense* and *T.b. rhodesiense* sleeping sickness in non- endemic areas." Funded by: WHO/TDR: ID 980071; **(14) 2000:** PI. "Development of Trypanosome and Serum Banks at LIRI" Funded by: WHO/TDR: ID A00482; **(15) 2000:** PI. "Detection and mapping of melarsoprol resistance in *T.b.rhodesiense* and *T.b.gambiense* sleeping sickness in Uganda." Funded by: WHO/TDR: ID A00470; **(16) 2000:** PI. "Comparative performance of CIATT and parasitological techniques in the diagnosis of *T.b.rhodesiense* and *T.b.gambiense* in a clinical set up." Funded by: WHO/TDR: ID A00376; **(17) 2003:** PI. "Evaluation of the epidemiological significance of an animal reservoir in Gambiense sleeping sickness in N.W.Uganda." Funded by WHO/TDR:ID A30407; **(18).** 2001: PI. "Developing, Validating and Standardising Methodologies for the use of PCR and PCR-ELISA in the diagnosis and monitoring of trypanosomiasis control programme." Funded by: IAEA-UGA11418.

In terms of training post-graduate students, John successfully supervised 4 PhD and 9 Masters students in various fields.

3) Publications:

John has published widely in various professional journals. These include:

- i. Mulindwa J, *et.al.* (2020). TrypanoGEN Research Group of the H3Africa Consortium (2020). High Levels of Genetic Diversity within Nilo-Saharan Populations: Implications for Human Adaptation. **Am J Hum Genet.** 2020 Sep 3; 107(3): 473–486. Published online 2020 Aug 10. doi: 10.1016/j.ajhg.2020.07.007.
- ii. Nyangiri O A, *et.al.* (2020). Copy number variation in human genomes from three major ethno-linguistic groups in Africa. **BMC Genomics.** 2020; 21: 289. Published online 2020 Apr 10. doi: 10.1186/s12864-020-6669-y.
- iii. Mulindwa J, *et.al.* (2018). Transcriptomes of *Trypanosoma brucei rhodesiense* from sleeping sickness patients, rodents and culture: Effects of strain, growth conditions and RNA preparation methods. **PLoS Negl Trop Dis.**12(2):e0006280. doi: 10.1371/journal.pntd.0006280.
- iv. Magambo P K, *et.al.* (2018). No evidence for association between APOL1 kidney disease risk alleles and Human African Trypanosomiasis in two Ugandan populations. **PLoS Negl Trop Dis.** 12(2): e0006300. doi: 10.1371/journal.pntd.0006300.
- v. Kimuda M.P, *et.al.* (2018). No evidence for association between APOL1 kidney disease risk alleles and Human African Trypanosomiasis in two Ugandan populations. TrypanoGEN Research Group as members of The H3Africa Consortium. **PLoS Negl Trop Dis.** :12(2):e0006300. doi: 10.1371/journal.pntd.0006300.
- vi. Richardson JB, *et.al.* (2017). Genomic analyses of African *Trypanozoon* strains to assess evolutionary relationships and identify markers for strain identification. **PLoS Negl Trop Dis.**:11(9):e0005949. doi: 10.1371/journal.pntd.0005949.
- vii. Ilboudo H, *et.al.* (2017). Introducing the TrypanoGEN biobank: A valuable resource for the elimination of human African trypanosomiasis. TrypanoGEN Research Group as members of The H3Africa Consortium. **PLoS Negl Trop Dis.** :11(6):e0005438. doi:1371/journal.pntd.00054381371.
- viii. Musaya J, *et.al.*(2017). Polymerase chain reaction identification of *Trypanosoma brucei rhodesiense* in wild tsetse flies from Nkhotakota Wildlife Reserve, Malawi. **Malawi Med J.** :29(1):5-9.
- ix. Cooper A, (2017). *APOL1* renal risk variants have contrasting resistance and susceptibility associations with African trypanosomiasis. **eLife** 2017;10.7554/eLife.25461.
- x. Mulindwa J, Mercé C, Matovu E, *et.al.* (2015). Transcriptomes of newly-isolated *Trypanosoma brucei rhodesiense* reveal hundreds of mRNAs that are co-regulated with stumpy-form markers. **BMC Genomics** 16(1):1118. doi: 10.1186/s12864-015-2338-y.
- xi. Echodu R, *et.al.* (2015). Genetic diversity and population structure of *Trypanosoma brucei* in Uganda: implications for the epidemiology of sleeping sickness and Nagana. **PLoS Negl Trop Dis.**:19;9 (2):e0003353. doi:10.1371/journal.pntd.0003353. eCollection.
- xii. Enyaru, C K J, *et.al.*(2014). Development and Evaluation of Lateral flow technique for the detection of trypanosomes in tsetse flies. **J. Parasitol. Vector Biol. Vol 6.(12)pp 181-188.**
- xiii. Enyaru, J.C.K., *et.al.* (2012): Comparison of Competitive ELISA, PCR and Loop Mediated Isothermal Amplification of Mycoplasmal DNA in confirmatory Diagnosis of an Outbreak of Contagious Bovine Pleuropneumonia in Eastern Rwanda. **International Journal of Animal and Veterinary Advances** 4(1): 22-28.
- xiv. Enyaru, J, *et.al.* (2010). Landmarks in the evolution of technologies for identifying trypanosomes in tsetse flies, **Trends in Parasitology**, 26:388-394.
- xv. Enyaru J. C. K., *et.al.*. (2006). Detection of *T.b.rhodesiense* Trypanosomes in Humans and Domestic Animals in South East Uganda by Amplification of Serum Resistance-Associated Gene. **Annals of New York Academy of Sciences**, 1081: 311-319.

4) Awards:

John was awarded a Distinguished Service Medal by Makerere University, Kampala, Uganda in 2013. His competence is evidenced in successful research projects implemented and publications in professional journals.

5) Conference organization/Convener/Seminar

John successfully organised the following: (1) A workshop on research proposal development at Hotel Africana, 3-4 December 2007, funded by Bill and Melinda Gates Foundation. Workshop participants produced Guidelines for research proposals; (2) A research inception meeting at Hotel Africana, 28-29 January 2008, funded by Bill and Melinda Gates Foundation. Workshop participants developed the research road map; (3) A research progress meeting at Hotel Africana, 18-19 September 2008, funded by Bill and Melinda Gates Foundation; (4) Research progress meeting at Hotel Africana, 18-19 January 2009, funded by Bill and Melinda Gates Foundation. Workshop participants approved the research progress report.

6) Service to the University and the community

Service to the University: Member, Faculty Higher degree and promotion committee (2003 to 2006); Member, Departmental Higher degree and promotion committee (2003- 2015); Coordinator of Second year B.Sc. students (2007); Member, Technical Team for Reviewing WHO/TDR Projects (2001-2003).

Service to community: Member of the National Biosafety Committee (NBC) of the Uganda National Council for Science and Technology (UNCST) (2013 -2019); Board Member of the Eastern Africa Network for Trypanosomiasis (EANETT) (2004-2015); Member of the Biochemistry Society of East Africa (2009-2015); Member of the Institutional Biosafety Committee of the National Agricultural Research Organization (NARO) (2009 -2013); Committee Member of the Editorial Board of the Network of Ugandan Researchers and Research Users (NURRU), Uganda (2006 to 2008).

7) Employment History:

Position	Duration	Institution	Responsibilities
Professor	2021- current	All Saints University Lango, Lira, Uganda	Lectures/Supervision/Research
Professor	2011- June 2016	Makerere University, Kampala, Uganda	Lectures/Supervision/Research
Assoc. Professor	2007- 2011	Makerere University, Kampala, Uganda	Lectures/Supervision/Research
Senior Lecturer	2001-2006	Makerere University, Kampala, Uganda	Lectures/Supervision/Research
Senior Research Officer	1994-2001	Livestock Research Institute, Tororo, Uganda	Research
Principal Research Officer	1991-1993	Uganda Trypanosomiasis Research Organisation, Tororo, Uganda	Research
Research Officer	1984-1990	Uganda Trypanosomiasis Research Organisation, Tororo, Uganda	Research
Post-Doctoral Fellow: Molecular Biology	June 1994- August 1995.	International Livestock Research Institute (ILRI) formerly International Laboratory for Research on Animal Diseases (ILRAD) Kenya.	Research

Professor John Charles Kiboko Enyaru



Referees:

- 1) Professor Enock Matovu, College of Veterinary Medicine, Animal Resources and BioSecurity, Makerere University, Uganda. Mobile Tel: +256 Email: matovue04@yahoo.com
- 2) Dr Vincent Pius Alibu, College of Natural Sciences, Makerere University, Uganda. Mobile Tel: +256 Email: vpalibu@yahoo.com