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Expertise

Molecular biology, Structural Biology, Protein Engineering, Malaria, Trypanosomiasis

Academic qualifications and Work Experience

- 2014 - present Doctorate in Bio-engineering Sciences, VUB, Brussels, Belgium
- 2012 - 2014 Master of Science in Molecular Biology, VUB, Brussels, Belgium
- 2008 - 2012 Assistant research Scientist (Trypanosomiasis project), Institute of Primate Research, Karen, Nairobi, Kenya
- 2007 - 2008 Research Fellow, Animal Sciences Department, Institute of Primate Research, Karen, Nairobi, Kenya
- 2002 - 2007 Bachelor of Science (Biomedical Science and Technology), Maseno University, Kisumu, Kenya

Presentations

6th - 7th July 2010: Poster presentation "Feasibility Of Using Iled Microscope In Identification Of Trypanosomes, Malaria And Leishmania Parasites Stained With Common Fluorecent Dyes"

John Kagira, Christopher Kariuki, Victor Mwadime, Macharia J.C., Ndung'u J.M. and Maina Ngotho
18th Institute of Primate Research Biennial Conference, Kenya Institute of Education, Nairobi

25th-29th June 2012: Presentation/Talk "Development of a nanobody® based diagnostic tool for Trypanosoma brucei rhodesiense"

Bringing diagnostics to the Point of care Workshop, Institute of Primate Research/ National Museums of Kenya, Nairobi, Kenya

<http://www.glycomicscentre.ca/workshops/additional-workshop-information/>

18th - 19th September 2017: Presentation/Talk "Applying Nanobody® Technology to target the bloodstream trypanosomal transferrin receptor"

Christopher K.Kariuki, Sheila K. Mainye, Benoit Stijlemans and Stefan Magez
First African IPMB Alumni at the Institute of Primate Research (IPR), Nairobi, Kenya

Research output

Improving the yield of recalcitrant Nanobodies® by simple modifications to the standard protocol

Kariuki, C. K. & Magez, S., 12 May 2021, In : Protein Expression and Purification. 185, 9 p., 105906.

The Trypanosomal Transferrin Receptor of Trypanosoma Brucei-A Review

Kariuki, C. K., Stijlemans, B. & Magez, S., 18 Sep 2019, In : Tropical Medicine and Infectious Disease . 4, 4, 126.

KILchip v1.0: A Novel Plasmodium falciparum Merozoite Protein Microarray to Facilitate Malaria Vaccine Candidate Prioritization

Kamuyu, G., Tuju, J., Kimathi, R., Mwai, K., Mburu, J., Kibinge, N., Kwan, M. C., Hawkings, S., Yaa, R., Chepsat, E., Njunge, J. M., Chege, T., Guleid, F., Rosenkranz, M., Kariuki, C. K., Frank, R., Kinyanjui, S. M., Murungi, L. M., Bejon, P., Farnert, A. & 6 others, Tetteh, K. K. A., Beeson, J. G., Conway, D. J., Marsh, K., Rayner, J. C. & Osier, F. H. A., 11 Dec 2018, In : Frontiers in Immunology. 9, p. 2866 1 p.

Virulence and pathogenicity of three Trypanosoma brucei rhodesiense stabilates in a Swiss white mouse model

Kariuki, C., Kagira, J. M., Mwadime, V. & Ngotho, M., 5 Oct 2015, In : African Journal of Laboratory Medicine. 4, 1, 8 p.

IL-6 is upregulated in late-stage disease in monkeys experimentally infected with trypanosoma brucei rhodesiense

Nyawira Maranga, D., Kagira, J. M., Kariuki, C., Muturi Karanja, S., Wangari Maina, N. & Ngotho, M., 30 Sep 2013, In : Clinical and Developmental Immunology. 2013, 6 p., 320509.

Influence of trypanocidal therapy on the haematology of vervet monkeys experimentally infected with *Trypanosoma brucei rhodesiense*

Ngotho, M., Kagira, J. M., Kariuki, C., Maina, N., Thuita, J. K., Mwangangi, D. M., Farah, I. O. & Hau, J., 1 Jul 2011, In : *Acta Tropica*. 119, 1, p. 14-18 5 p.