



Julius Ndirangu Mugweru

	Certificates	Institution
2014-2017	PhD in Molecular Biology and Biochemistry	Guangzhou Institutes of Biomedicine & Health, Chinese Academy of Sciences
2009-2013	Master of Science in Immunology	Jomo Kenyatta University of Agriculture & Technology-Kenya
January-April 2013	Certificate in Monitoring & Evaluation	Kenya Institute of Management-Kenya
2011-2012	Diploma in Project Management	Kenya Institute of Management-Kenya
2004-2008	Bachelor of Science in Microbiology	Jomo Kenyatta University of Agriculture & Technology-Kenya
1998-2001	Kenya Certificate of Secondary Education	Kiru Mixed Secondary School
1991-1997	Kenya Certificate of Primary Education	Kiriani Primary School

Research Experience & Publications	
1.	Mugweru, J , Liu J., Makafe, G., Wang, B., Chiwala, G., Wang, C., Li, X., Tan, Y., Wai W. Y., Tan, S., Zhang, T., (2018). Mutation <i>ethA</i> _{W21R} confers co-resistance to Protonamide and Ethionamide in both <i>M. bovis</i> BCG and <i>M. tuberculosis</i> H37Rv. Manuscript submitted
2.	Mugweru J , Makafe G, Cao Y, Zhang Y, Wang B, Huang S, Njire M, Chhotaray C, Tan Y, Li X, Liu J, Tan S, Deng J and Zhang T (2017). A Cassette Containing Thiostrepton, Gentamicin Resistance Genes, and <i>dif</i> sequences Is Effective in Construction of Recombinant Mycobacteria. <i>Front. Microbiol.</i> 8:468. doi: 10.3389/fmicb.2017.00468
3.	Njire, Moses, Na Wang, Bangxing Wang, Yaoju Tan, Xingshan Cai, Yanwen Liu, Julius Mugweru et al. (2017). Pyrazinoic Acid Inhibits a Bifunctional Enzyme in Mycobacterium tuberculosis. <i>Antimicrobial Agents and Chemotherapy</i> : AAC-00070
4.	Islam, M. M., Hameed, H. A., Mugweru, J. , Chhotaray, C., Wang, C., Tan, Y. & Yew, W. W. (2016). Drug resistance mechanisms and novel drug targets for tuberculosis therapy. <i>Journal of Genetics and Genomics</i> .
5.	Makafe, G. G., Cao, Y., Tan, Y., Julius, M. , Liu, Z., Wang, C. & Pang, W. (2016). Oxazolidinone Resistance in Mycobacterium tuberculosis: What is the Role of Cys154Arg Mutation in the Ribosomal Protein L3? <i>Antimicrobial Agents and Chemotherapy</i> , AAC-00152.
6.	Njire, M., Tan, Y., Mugweru, J. , Wang, C., Guo, J., Yew, W., & Zhang, T. (2016). Pyrazinamide resistance in Mycobacterium tuberculosis: Review and update. <i>Advances in medical sciences</i> , 61(1), 63-71.
7.	Tan, S., Rao, Y., Guo, J., Tan, Y., Cai, X., Kuang, H., Li, Y., Liu, W., Mugweru, J. , Wang, B. and Cao, Y., (2016). The influence of pyrazinamide monoresistance on treatment outcomes in tuberculosis patients from Southern China. <i>Journal of Tuberculosis Research</i> , 4(01), p.9.
8.	Gechemba, O. R., Budambula, N. L., Makonde, H. M., Julius, M. , & Matiru, V. N. (2015). Potentially beneficial rhizobacteria associated with banana plants in Juja, Kenya. <i>Journal of Biodiversity and Environmental Sciences</i> , 7(2), 181-188.
9.	Liu, T., Wang, B., Guo, J., Zhou, Y., Julius, M. , Njire, M. & Xu, Y. (2015). Role of folP1 and folP2 genes in the action of sulfamethoxazole and trimethoprim against mycobacteria. <i>J Microbiol Biotechnol</i> , 25, 1559-1567.
10.	Ouma, S. O., Mugweru, J. L. , Ngamau, C. N., & Matiru, V. N. (2015). Evaluation of nitrogen fixation ability of endophytic bacteria in Kenyan bananas (<i>Musa</i> Spp.) using biochemical and molecular techniques
11.	Julius, M. , Rebecca, W., Francis, K., Vivienne, M., & Muregi, F. W. (2013). Cytokine levels associated with experimental malaria pathology during <i>Plasmodium berghei</i> ANKA infection in a mouse model. <i>Journal of Clinical Immunology and Immunopathology Research</i> , 5(1), 1-8.

Lecturer January 2018	University of Embu Department of Biological Sciences.
Part-time lecturer September 2017	Jomo Kenyatta University of Agriculture & Technology, School of Biological Sciences.
Research Fellow September - October 2012 & October - December 2013	Okayama University Institute of Plant Sciences and Resources, Japan; I worked on genotyping for the stay green gene on the Takakibi and NOG sorghum strains and obtained a Qualitative Trait Loci(QTL) on Chromosome 7.
Part-time Assistant Lecturer September - December 2013	1) Jomo Kenyatta University of Agriculture & Technology-Kenya 2) Technical University of Kenya

Patent

1. 张天, **Mugweru Julius** , 刘燕 A Cassette Containing Thiostrepton, Gentamicin Resistance Genes and *dif* sequences for Construction of Recombinant Mycobacteria (2016). Patent application number : 201610902985.6. (**second inventor**)

Ongoing projects

1. Construction of Recombinant Drug-Resistant *Mycobacterium bovis* BCG for treatment of Multi-drug resistant tuberculosis (构建用于治疗多重耐药结核分支杆菌的重组耐药 BCG)-To be terminated, late 2020.

Awards

1. **2017: GIBH 优秀学生奖学金二等奖**
 2. **2017:来华优秀留学生**
 3. **2014:UCAS 留学生奖学金() (三年)**
 4. **2012–2013: Research fellow: Institute of Plant Science and Resources-Okayama University, Japan.**
 5. **2011: One year fellowship support by the World Federation of Scientists (WFS)**
 6. **2010: Higher education loans board tuition scholarship.**
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