

Wycliffe O. Masanta, PhD

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Employment

July 2017 – Present Lecturer, Department of Medical Microbiology,
Maseno University Medical School.

Teaching Responsibilities: Bacteriology, Virology, Mycology
and Introduction to Immunology.

Research Interests: Application of both traditional and
modern biology techniques to understand human-pathogenic
microbes interactions.

Jan 2012 – June 2017 Assistant lecturer, Department of Medical Microbiology,
Maseno University Medical School.

Education and Training

April 2013 - June 2017 Institute for Medical Microbiology, University Medical Centre
Göttingen, Germany.
PhD in Molecular Medicine.

Sept 2012 - March 2013 Goethe Institute Nairobi, Kenya and Goethe Institute,
Göttingen, Germany.
German language course: Levels A1, A2, B1 and B2

Sept 2007 - Sept 2009 School of Biosciences, University of Nottingham, UK.
Master by Research in Advanced Genomics and Proteomics.

Sept 2005 - Sept 2006 London school of Hygiene & Tropical Medicine, UK.
Master of Science in Medical Microbiology.

April 2000 – April 2004 Jomo Kenyatta University of Agriculture & Technology,
Kenya.
BSc. (Hons) Medical Microbiology.

Scholarships and awards

2018 CIM Equipment grant

2012 DAAD/NACOST Doctoral Scholarship

2007 University of Nottingham, Genomics and Proteomics Scholarship

2005 DFID Commonwealth Scholarship

2005 Leverhulme Trust Scholarship

Membership in professional societies

Jan 2013 - Present Member of Microbiology Society, UK

Selected List of Publications

1. Zautner A.E., and **Masanta W.O.** (2016) Campylobacter: Health Effects and Toxicity. In: Caballero, B., Finglas, P., and Toldrá, F. (eds.) The Encyclopaedia of Food and Health vol. 1, pp. 596-601. Oxford: Academic Press.
2. Zautner AE, Lugert R, **Masanta WO**, Weig M, Groß U, Bader O. Subtyping of *Campylobacter jejuni* ssp. *doylei* Isolates Using Mass Spectrometry-based PhyloProteomics (MSPP). *J Vis Exp.* 2016 Oct 30;(116). doi: 10.3791/54165.
3. Norah Lynn-Anne Mund, **Wycliffe Omurwa Masanta**, Anne-Marie Goldschmidt, Raimond Lugert, Uwe Groß, Andreas E. Zautner (2016) Association of campylobacter *jejuni* spp. *jejuni* chemotaxis receptor genes with multilocus sequence types and source of isolation. *European Journal of Microbiology and Immunology*. DOI: 10.1556/1886.2015.00041. *In press*.
4. **Masanta, W. O.**, Lugert, R., Groß, U., Linsel, G., Heutelbeck, A., & Zautner, A. E. (2016). Seroprevalence of *Campylobacter*-Specific Antibodies in two German Duck Farms – A Prospective Follow-Up Study. *European Journal of Microbiology & Immunology*, 6(2), 118–123. <http://doi.org/10.1556/1886.2016.00007>.
5. Erich Zautner, A., **Omurwa Masanta, W.**, Weig, M., Groß, U., & Bader, O. (2015). Mass Spectrometry-based PhyloProteomics (MSPP): A novel microbial typing Method. *Scientific Reports*, 5, 13431. <http://doi.org/10.1038/srep13431>.
6. Zautner, A. E., **Masanta, W. O.**, Hinz, R., Hagen, R. M., & Frickmann, H. (2015). Artificially designed pathogens – a diagnostic option for future military deployments. *Military Medical Research*, 2, 17. <http://doi.org/10.1186/s40779-015-0045-2>.
7. **Masanta, W. O.**, Hinz, R., & Zautner, A. E. (2015). Infectious Causes of Cholesteatoma and Treatment of Infected Ossicles prior to Reimplantation by Hydrostatic High-Pressure Inactivation. *BioMed Research International*, 2015, 761259. <http://doi.org/10.1155/2015/761259>.
8. Frickmann, H., **Masanta, W. O.**, & Zautner, A. E. (2014). Emerging Rapid Resistance Testing Methods for Clinical Microbiology Laboratories and Their Potential Impact on Patient Management. *BioMed Research International*, 2014, 375681. <http://doi.org/10.1155/2014/375681>.
9. Zautner, A. E., Johann, C., Strubel, A., Busse, C., Tareen, A. M., **Masanta, W. O.**, Lugert, R., Schmidt-Ott., Groß, U. (2014). Seroprevalence of campylobacteriosis and relevant post-infectious sequelae. *European Journal of Clinical Microbiology & Infectious Diseases*, 33(6), 1019–1027. <http://doi.org/10.1007/s10096-013-2040-4>.
10. **Masanta, W. O.**, Heimesaat, M. M., Bereswill, S., Tareen, A. M., Lugert, R., Groß, U., & Zautner, A. E. (2013). Modification of Intestinal Microbiota and Its Consequences for Innate Immune Response in the Pathogenesis of Campylobacteriosis. *Clinical and Developmental Immunology*, 2013, 526860. <http://doi.org/10.1155/2013/526860>.
11. Zautner, A. E., **Masanta, W. O.**, Tareen, A. M., Weig, M., Lugert, R., Groß, U., & Bader, O. (2013). Discrimination of multilocus sequence typing-based *Campylobacter jejuni* subgroups by MALDI-TOF mass spectrometry. *BMC Microbiology*, 13, 247. <http://doi.org/10.1186/1471-2180-13-247>.

Conferences:

- a) Presented a poster titled '*seroprevalence of antropo-zoonotic diseases in two Germany duck farms – a prospective follow-up-study*' during the National Symposium on Zoonoses Research that took place on 13th and 14th October 2016 in Berlin, Germany.
- b) Presented a poster titled '*Association of Campylobacter jejuni ssp. jejuni chemotaxis receptor genes with multilocus sequence types and source of isolation*' during the 68th Joint DGHM Conference that took place on 27th to 30th September 2015 in Munster, Germany.
- c) Presented an oral talk titled '*characterization of the Campylobacter coli methylome*' during the 4th Joint DGHM/VAAM Conference that took place on 5th to 8th October 2014 in Dresden, Germany.
- d) Presented a poster titled '*characterization of the Campylobacter coli methylome*' and '*Investigation of the distribution of chemoreceptor genes in Campylobacter jejuni strains isolated from different sources*' respectively during the 4th Joint DGHM/VAAM Conference that took place on 5th to 8th October 2014 in Dresden, Germany.
- e) Presented a poster titled "*Survey of chemoreceptor profiles and their association with auxotropisms for specific amino acids of Campylobacter jejuni strains*" at the 4th International Student Conference on Microbial Communication that took place on 31st March 2014 to 3rd April 2014 in Jena, Germany.