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Name	Dr. Paul O. Angienda
Qualification	Ph.D (Cell and MolecularBiology) M. Sc (AppliedMicrobiology and Biotechnology) B. Sc. (General) - Zoology&Botany(1 st Class Honours)
Picture(JPEG or better)	
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Brief Bio	<p>I hold a Doctor of Philosophy Degree in Cell and Molecular Biology. The study resolved the population genetic structure of the endangered Singida and the exotic Nile tilapia within L. Victoria and contributed to the understanding of temperature sex reversal and determination in Nile tilapia.</p> <p>With a Masters degree in Applied Microbiology and Biotechnology, I am also interested in Antimicrobial chemotherapeutics, Food and Environmental Microbiology. I have general interest in Biology given my general background in biology at undergraduate level and so I have been involved in diverse biological research including ecology, physiology, microbiology, aquaculture, conservation biology and genetics ranging from studies on Human to animal diseases.</p> <p>Previously, I have worked with Kenya Trypanosomiasis Research Institute in the department of Entomology and currently a lecturer and the chairperson postgraduate studies committee at the School of Physical and Biological Sciences.</p>

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<p>Current Research: We also need past research activities</p>	<p>Characterization of microbial sources of biosurfactants for antimicrobial and anti-cervical cancer applications from heavy metal-contaminated soils and waste waters within Lake Victoria Region.</p>
<p>Publications:</p>	<ol style="list-style-type: none"> 1. Odhiambo E., Angienda P. O., Okoth P. and Onyango D. (2020) Stocking Density Induced Stress on Plasma Cortisol and Whole Blood Glucose Concentration in Nile Tilapia Fish (<i>Oreochromis niloticus</i>) of Lake Victoria, Kenya. <i>International Journal of Zoology</i>. Accepted. https://ops.hindawi.com/9395268/ 2. Oginah S., Angienda, P.O. and Onyango, P. O. (2019) Evaluation of habitat use and ecological carrying capacity for the re-introduced Eastern black rhinoceros (<i>Diceros bicornis michaeli</i>) in Ruma National Park, Kenya. <i>African Journal of Ecology</i>. DOI: 10.1111/aje.12674. 3. Ouma H., Angienda P. O. and Owiti D. O. (2019). Growth Performance, Feed Conversion Ratio and Survival of African Catfish, <i>Clarias gariepinus</i> (Burchell, 1822) In Response to Varying Levels of Crude Protein. <i>Sch Acad J Biosci</i> 9; 7(4):196-204. 4. Ouma H., Owiti D. O., Angienda P. O., Mwamburi J, Ogello E. O. (2019). Effect of low crude protein diets on the growth performance, survival and feed conversion ratio of the African Catfish, <i>Clarias gariepinus</i> (Burchell, 1822) larvae. <i>Global Research Journal of Fishery Science and Aquaculture</i>, 3: 035-044. 5. Olwal C. O., Angienda P. O., and Ochiel D. O. (2019). Alternative sigma factor β ($\sigma\beta$) and catalase enzyme contribute to <i>Staphylococcus epidermidis</i> biofilm's tolerance against physico-chemical disinfection. <i>Sci Rep</i>. 9: 5355. doi: 10.1038/s41598-019-41797-8 6. Olwal C. O., Angienda P. O., Onyango D. M., and Ochiel D. O. (2018). Susceptibility patterns and the role of extracellular DNA in <i>Staphylococcus epidermidis</i> biofilm resistance to physico-chemical stress exposure <i>BMC Microbiol</i>. 18: 40. doi: 10.1186/s12866-018-1183-y 7. Okoth P., Muoma J., Omayio D., Barasa M. and Angienda P. O. (2018). Molecular Footprint of Kenya's Gene Bank Repositories Based on the cp-Genome Signatures. <i>American Journal of Molecular Biology</i>, 8: 215-244 8. Olwal C. O., Ochiel D. O., Onyango D. M., and Angienda P. O. (2017). Bacterial Biofilm cell quantification: Where is consensus in over two decades, <i>Journal of Microbiology, Biotechnology and Food Sciences</i> 7(2): 168-173

9. Kebenei C. K., Ayieko Cyrus, Onyango D.M. and **Ang'ienda P. O** (2016). 'Epidemiology of Antimicrobial resistance among *Escherichia coli* strains in Trans-Nzoi County - Kenya, *Journal of Microbiology and Infectious Diseases* **6(3): 107 – 112**
10. Okoth P., Muoma J., Mulaya E, Wekesa C, Omayio O. D., **Ang'ienda P. O.** (2016). The potential of DNA barcode-based delineation using seven putative candidate loci of the plastid region in inferring molecular diversity of cowpea at sub-species level, *American Journal of Molecular Biology* **6(4): 138-158**
11. Cheruiyot J., Ingasia L. A., Omondi A. A., Juma D. W., Opot B. H., Ndegwa J. M., Mativo J., Cheruiyot A. C., Yeda R., Okudo C., Muiruri P., Bidii N. S., Chebon L. J., **Ang'ienda P. O.**, Eyase F. L., Johnson J. D., Bulimo W. D., Andagalu B., Akala H. M., and Kamau E. (2014). Polymorphisms in *Pfmdr1*, *Pfcr1* and *Pfnhe1* Genes are Associated with Reduced *in vitro* Activities of Quinine in *Plasmodium falciparum* Isolates from Western Kenya, *Antimicrobial Agents and Chemotherapy*, **58(7): 3737 – 3743**
12. Aketch B. O., **Ang'ienda P. O.**, Radull J. O. and Waindi E. N. (2014). Effect of stocking density on the expression of glucose transporter protein 1 and other physiological factors in the lake Victoria Nile tilapia, *Oreochromis niloticus* (L.) *International Aquatic Research* **6: 68 – 75**
13. **Ang'ienda P. O.**, LEE H. J., Elmer K. R., Abila R., Waindi E. N. and Meyer A. (2011). Genetic structure and gene flow in an endangered native tilapia fish (*Oreochromis esculentus*) compared to invasive Nile tilapia (*Oreochromis niloticus*) in Yala swamp, East Africa, *Conservation Genetics* **12: 243 – 255**
14. **Ang'ienda P. O.**, Aketch B. O. and Waindi E. N. (2010). Development of all-male fingerlings by heat treatment and the genetic mechanism of heat induced sex determination in Nile tilapia (*Oreochromis niloticus* L.), *International Journal of Biological and Life Sciences* **6: 38-43.**
15. **Ang'ienda P. O.**, Onyango D. M. and Hill D. J. (2010). Potential application of plant essential oils at sub-lethal concentrations under extrinsic conditions that enhance their antimicrobial effectiveness against pathogenic bacteria. *African Journal of Microbiology Research* Vol. **4(16)** pp. 1678 - 1684
16. Onyango D. M. and **Ang'ienda P. O.** (2010). Epidemiology of waterborne diarrhoeal diseases among children Aged 6-36 Months old in Busia - Western Kenya, *International Scholarly and Scientific Research & Innovation* **4(1): 978 – 985**
17. **Ang'ienda P. O.** and Hill D. J. (2010). The effect of sodium chloride and pH on

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the antimicrobial effectiveness of essential oils against pathogenic and food spoilage bacteria: Implications in food safety, *International Journal of Medicine and Medical Sciences* **1**: 222-227.

18. Kebenei C. K., **Ang'ienda P. O.** and Onyango P. (2019). Antimicrobial Resistance of *Escherichia coli* from Human and Black Rhinoceros in Kenya. *EcoHealth* <https://doi.org/10.1007/s10393-019-01461-z>. Epub ahead of print.

19. Ombwa V. O., **Ang'ienda P. O.**, Munguti J. M., Olwal C. O., Aura C. M. (Under review). The search for local ingredients to minimize overreliance on fishmeal-based feed formulations: potential of whole soya bean meal in raising quality Nile tilapia (*Oreochromis niloticus*, L.) fingerlings. *International Aquatic Research*. Under Review.

Attachment	Full CV (align to the provided format)
Digital Footprint	e.g. Link to personal website if available.