


# Daystar University Staff Profile Template

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<b>1. Name:</b>	Dr Geoffrey K Kinuthia HOD, Department of Science & Engineering PhD in Medical Parasitology
<b>2. Passport photo:</b>	 A professional headshot of Dr. Geoffrey K. Kinuthia, a man with a beard and glasses, wearing a brown suit jacket, a light-colored shirt, and a patterned tie. He is looking directly at the camera against a plain white background.
<b>3. Job Title and Responsibilities:</b>	Senior Lecturer; HOD, Department of Science & Engineering; School of Science, Engineering & Health; Teaching medical sciences including immunology and medical parasitology
<b>4. Biography (About Me):</b>	<p>I am a senior lecturer at Daystar University (Kenya), in the School of Science &amp; Health and currently I am the HOD in the department of Science &amp; Engineering. I graduated with a PhD in Medical Parasitology from the School of Medicine, Department of Pathology, Kenyatta University (Kenya), in December 2013. I have been a principal investigator in several research projects including: Efficacy of selected herbal extracts on cutaneous leishmaniasis; Relationship of prevalence of parasitic infections with peoples' lifestyles and practices in rural areas of Kenya; and analysis of heavy metals in industrial waste water. I plan to carry out more research particularly on the correlation between nutritional practices and the spread of parasitic infections in rural Kenya. So far, I have published 15 papers in peer reviewed journals since 2010. I am involved in developing new academic programs in Daystar university. Currently I am developing a curriculum in Masters in Public Health (MPH). I have served as an external examiner for masters and doctoral theses in the University of Eldoret, department of Biological Sciences. I have been reviewing manuscripts for several journals and also served in the Daystar Research Committee that reviews the research proposals for the award of funds. I am a committed Christian who loves mentoring the youth and serving in my local church.</p>

<b>5. Academic Qualifications:</b>	<table border="1"> <thead> <tr> <th data-bbox="423 310 805 426">Name of Institute &amp; Address</th> <th data-bbox="805 310 979 426">Period</th> <th data-bbox="979 310 1521 426">Certificate &amp; Qualifications</th> </tr> </thead> <tbody> <tr> <td data-bbox="423 426 805 646">Kenyatta University; Main Campus, School of Medicine; Department of Pathology, P.O. Box 43844, Nairobi.</td> <td data-bbox="805 426 979 646">2010 - 13</td> <td data-bbox="979 426 1521 646">PhD degree in Medical Parasitology. Project title: '<b>The efficacy of crude extracts of <i>Allium sativum</i>, <i>Callistemon citrinus</i> and <i>Moringa stenopetala</i> of Kenya against <i>Leishmania major</i></b>'.</td> </tr> <tr> <td data-bbox="423 646 805 867">Moi University, Chepkoilel Campus, Zoology Department, P.O. Box 1125, Eldoret.</td> <td data-bbox="805 646 979 867">1995 - 97</td> <td data-bbox="979 646 1521 867">Master of Philosophy (Mphil) degree in Medical Parasitology; Project title: '<b>Characterization of Leishmania-like isolates from rodents, lizards and sandflies from Masinga, Machakos District, Kenya</b>'</td> </tr> <tr> <td data-bbox="423 867 805 1014">Kenyatta University, Main Campus, P.O. Box 43844, Nairobi.</td> <td data-bbox="805 867 979 1014">1985- 88</td> <td data-bbox="979 867 1521 1014">B.Ed (Science) degree: Education, Botany, Zoology; Upper Second Class Honors.</td> </tr> </tbody> </table>			Name of Institute & Address	Period	Certificate & Qualifications	Kenyatta University; Main Campus, School of Medicine; Department of Pathology, P.O. Box 43844, Nairobi.	2010 - 13	PhD degree in Medical Parasitology. Project title: ' <b>The efficacy of crude extracts of <i>Allium sativum</i>, <i>Callistemon citrinus</i> and <i>Moringa stenopetala</i> of Kenya against <i>Leishmania major</i></b> '.	Moi University, Chepkoilel Campus, Zoology Department, P.O. Box 1125, Eldoret.	1995 - 97	Master of Philosophy (Mphil) degree in Medical Parasitology; Project title: ' <b>Characterization of Leishmania-like isolates from rodents, lizards and sandflies from Masinga, Machakos District, Kenya</b> '	Kenyatta University, Main Campus, P.O. Box 43844, Nairobi.	1985- 88	B.Ed (Science) degree: Education, Botany, Zoology; Upper Second Class Honors.
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<b>6. Research Interests:</b>	<p><b>Research Interests;</b></p> <ol style="list-style-type: none"> <li>1. Efficacy of herbal extracts on leishmaniasis;</li> <li>2. Community health in relation to hygienic practices and economic status in rural areas;</li> <li>3. Urban mosquitoes and the health implication;</li> <li>4. Levels of heavy metals in open waste water channels in Nairobi industrial areas.</li> </ol> <p><b>Current Research project:</b></p> <ol style="list-style-type: none"> <li>1. 2016 to date - Determination of heavy metals and other potentially harmful elements (PHEs) in waste water channels in Nairobi industrial area in Kenya using mosquito larvae as bio-indicators.</li> </ol> <p><b>Research skills &amp; other research-related experiences</b></p> <ol style="list-style-type: none"> <li>1. Growing <i>Leishmania</i> parasites in Schneider's <i>Drosophila</i> medium under sterile conditions;</li> <li>2. Isoenzyme analysis of <i>Leishmania</i> using cellulose acetate electrophoresis technique;</li> <li>3. Infectivity studies of <i>Leishmania</i> in experimental sand flies;</li> <li>4. Infectivity studies of <i>Leishmania</i> in experimental inbred BALB/c and Swiss albino mice;</li> <li>5. Trapping of sand flies using CDC light traps from termite mounds and aspirating</li> </ol>														

	<p>them from the traps;</p> <ol style="list-style-type: none"> <li>6. Trapping mosquitoes using CDC light traps and cryopreserving them in liquid nitrogen;</li> <li>7. Identifying mosquito adults, larvae and pupal stages morphologically under a microscope;</li> <li>8. Carrying out a social science research in a rural set up using questionnaires and interview schedules;</li> <li>9. Analysis of research data using SPSS Version 17.0 and presentation of the findings using power-point;</li> <li>10. Writing scientific based research proposals that attract research funds;</li> <li>11. Writing papers for publication in local and international journals with high impact factors;</li> <li>12. Reviewing research proposals for funding at the Department of Research &amp; Consultancy, Daystar University;</li> <li>13. External examiner for Masters and PhD theses from other universities.</li> </ol>
<p><b>7. Publications:</b></p>	<p><b>Refereed Journal articles</b></p> <ol style="list-style-type: none"> <li>1. <b>Geoffrey K. Kinuthia</b>, Ngure, NV, Kamau L, Beti D, Lugalia R, Wangila A, Ngari WF, Mburu WF &amp; Kiarie WM. (2017). Survey of urban mosquito species (Diptera: Culicidae) with focus on waste water channels as larval habitats in Nairobi industrial area, Kenya. <i>African Journal of Health Sciences</i>, <b>30</b> (2): 120 – 138.</li> <li>2. Ndeti CM, Kituyi C, Ndirangu M, Ingonga J, Chimbevo ML, Ochieng JO, Barasa M, <b>Kinuthia G</b>, Maina EM, Nyambati VCS &amp; Anjili CO (2016). Efficacy of combination therapy using extracts of <i>Aloe secundiflora</i> Eng L and <i>Callistemon citrinus</i> William C. in <i>Leishmania major</i> infected BALB/c mice. <i>East African Medical Journal</i>, <b>93</b> (3): 127 – 134.</li> <li>3. Veronica Ngure, Noah Sitati, Silvanus Shisia, and <b>Geoffrey Kinuthia</b> (2015). Assessment of heavy metals pollution in urban soils and the implications to consumers' health. <i>Journal of Natural Sciences Research</i>, <b>5</b> (17): 75 – 85; ISSN 2224-3186 (Paper); ISSN 2225-0921 (Online).</li> <li>4. Ngure PK, Kasili S, Anjili CO, Karanja RM, Kaburi J, Mwangi M, <b>Kinuthia G</b>, Kiarie M, Nzau A, Kepha S, Maniania NK, Ndegwa PN, Irungu L &amp; Ngumbi MP (2015). Effects of <i>Metarhizium anisopliae</i> on sand fly populations in their natural habitats in Kenya. <i>African Journal of Health Sciences</i>, <b>28</b> (5): 398 - 407.</li> <li>5. <b>Kinuthia K. Geoffrey</b>, Anjili O. Christopher, Kabiru W. Ephantus, Kigondu M. Elizabeth, Ingonga M. Johnny &amp; Gikonyo K. Nicholas. (2015). Toxicity and efficacy of aqueous crude extracts from <i>Allium sativum</i>, <i>Callistemon citrinus</i> and <i>Moringa stenopetala</i> against <i>L. Major</i>. <i>Kabarak Journal of Research &amp; Innovation</i> <b>3</b> (1): 9 – 20, ISSN 2305-784X</li> <li>6. <b>Kinuthia, GK.</b>, Kabiru, EW., Gikonyo, NK., Ingonga, JM., Kigondu, EM &amp; Anjili, CO. (2014). <i>In vitro</i> activity of aqueous and methanol extracts of <i>Callistemon citrinus</i> (Family Mrytaceae) against <i>Leishmania major</i>. <i>African Journal of Health Sciences (Afr J Health Sci)</i>, <b>27</b>(2): 118 – 133.</li> </ol>

7. **Geoffrey K Kinuthia**, Ephantus W. Kabiru, Christopher O. Anjili, Elizabeth M. Kigundu, Veronica N. Ngure, Johnstone M. Ingonga, and Nicholas K. Gikonyo. (2014). Efficacy of crude methanolic extracts of *Allium sativum* L. and *Moringa stenopetala* (Baker F.) Cufod. against *Leishmania major*. *International Journal of Medicinal and Aromatic Plants*, **4** (1): 16 – 25.
8. V. Ngure, T. Davies, **G. Kinuthia**, N. Sitati, S. Shisia and Oyoo-Okoth (2014). Concentration levels of potentially harmful elements from gold mining in Lake Victoria region, Kenya: environmental and health implications. *Journal of Geochemical Explorations*. doi.org/10.1016/j.explo.2014.04.004.
9. **Geoffrey K. Kinuthia**, Christopher O. Anjili, Nicholas K. Gikonyo, Elizabeth M. Kigundu, Johnstone M. Ingonga, &Ephantus W. Kabiru. (2013). *In vitro* and *in vivo* activities of blends of crude aqueous extracts from *Allium sativum* L, *Callistemon citrinus*(Curtis) Skeels and *Moringa stenopetala* (Baker F) Cufodontis against *Leishmania major*. *International Journal of Medicinal and Aromatic Plants*; **3**(2): 234 – 246.
10. Veronica Ngure, Noah Sitati, Silvanus Shisia, Gelas Simiyu, **Geoffrey Kinuthia**, and Festus Kelonye. (2013). Health Implications of heavy metals in soil, scalp hair and selected food crops within Eldoret Municipality, Kenya. *IOSR Journal of Environmental Science, Toxicology and Food Technology* (IOSR - JESTFT), e-ISSN: 2319 – 2402, p-ISSN: 2319 - 2399; **7**(3): 47 – 55.
11. **Kinuthia, GK.**, Afolayan, FID., Ngure, V. &Anjili, CO. (2012). Selected practices among rural residents versus the prevalence of Amoebiasis and Giardiasis in Njoro District, Kenya. *African Journal of Health Sciences*; **20** (1 – 2): p 10 – 20.\
12. **GK Kinuthia.**, MM Gicheru., PK Ngure. & EW Kabiru. (2012). Lifestyles and Practices that enhance Malaria and Typhoid Fever in Njoro District, Kenya. *Journal of Community Health*; **37**(1): 224 – 233; doi 10.1007/s10900-011-9440-0.
13. Ngure Veronica, Simiyu Gelas, Sitati Noah, **Kinuthia Geoffrey**, & Shisia Silvanus. (2011). Monitoring exposure to heavy metals through maize consumption using human hair among adults in Eldoret Municipality, Kenya. *Journal of Technology & Socio-economic Development*; **1**(1): 118 – 125.
14. **Kinuthia, GK.**, Lugalia, RM., Mwanyumba, PJ., Ngeiywa, MM., Wishitemi, BL., Tonui, WK. & Anjili, CO. (2011). Characterization and Comparison of leishmania-like isolates from rodents, lizards and sand flies caught at Masinga location in Machakos District, Kenya. *African Journal of Health Sciences*; **18**(1-2): 6 – 13.
15. **Geoffrey K. Kinuthia.**, Martha W. Kiarie-Makara., Michael M. Gicheru., Ephantus W. Kabiru& Dong-Kyu Lee. (2010). Relationship between control of parasitic infections and poverty levels: A case Study of Njoro District, Kenya. *Kosin Journal of Health Sciences*; **20**: 77 – 95.

#### **Conferences, Seminars and Public lectures**

14. Attended the Daystar University Chancellor's Forum & Conference on '**Diabetes – The Silent Killer**' on **21<sup>st</sup> June, 2019** at DAC Auditorium,

	<p>Daystar University, Nairobi Campus.</p> <ol style="list-style-type: none"> <li>15. Attended the <b>11<sup>th</sup> Annual Neglected Diseases Conference</b> jointly hosted by MOH and KEMRI on <b>6<sup>th</sup> to 7<sup>th</sup> December, 2017</b> at Sarova Panafric Hotel at Nairobi;</li> <li>16. A Poster on <b>‘Mosquito Diversity in the Nairobi-Keja urban environment and implication for diseases transmission by Geoffrey K. Kinuthia <i>et al.</i>, 2017</b> was accepted and displayed at the <b>Kolymbari 2017 Mosquito meeting’, Greece</b> by Dr. Luna Kamau, one of the co-researcher and a co-author of the project and paper respectively;</li> <li>17. Presented a reviewed conference paper entitled <b>‘Toxicity and Efficacy of aqueous crude extracts from <i>Allium sativum</i>, <i>Callistemon citrinus</i> and <i>Moringa stenopetala</i> against <i>L. major</i></b> at 4<sup>th</sup> Annual International Conference, <b>18<sup>th</sup> July, 2014 at Kabarak University;</b></li> <li>18. Presentation of a paper entitled <b>‘Efficacy of crude extracts from <i>Allium sativum</i>, <i>Callistemon citrinus</i> and <i>Moringa stenopetala</i> of Kenya against leishmania major’</b> during the 27<sup>th</sup> Postgraduate Seminar for PhD graduands. Theme: Supporting Devolved Government Systems in Kenya through Research. <b>Friday, 6<sup>th</sup> December, 2013 at Kenyatta University;</b></li> <li>19. Attended a public lecture on <b>Cancer Research and Orthopedic Surgery by Prof Oddman Johansen. April 14, 2011 at Kenyatta University;</b></li> <li>20. Attended and wrote a report on the Conference on <b>‘The Role of a Parliamentary Office of Science and Technology (POST) and Pairing Scheme between Parliamentarians and Scientists in East Africa. June 29<sup>th</sup> to 30<sup>th</sup>, 2007 at Sarova Panafric in Nairobi, Kenya;</b></li> <li>21. Participated in the Mainstreaming of HIV and AIDS into the University Curriculum on 23<sup>rd</sup> to 24<sup>th</sup> <b>October, 2006 at Daystar University, Kenya;</b></li> <li>22. Attended the 2<sup>nd</sup> International Conference on God &amp; Creation: Mobilizing the Faithful to Celebrate and Care for God’s Creation on 8<sup>th</sup> to 11<sup>th</sup> <b>March, 2006 at Brackenhurst Center, Tigoni, Kenya.</b></li> </ol>
<p><b>8. Classes you teach:</b></p>	<p><b>Undergraduate classes including:</b> Biomedical science students – immunology and medical parasitology; Environmental Health students – Water quality, sanitation and health; Solid wastes management; Medical parasitology.</p>
<p><b>9. Other relevant links:</b></p>	<p><b>Research gate;</b>  <b><a href="https://www.truehealthinitiative.org/council_member/geoffrey-k-kinuthia/">https://www.truehealthinitiative.org/council_member/geoffrey-k-kinuthia/</a></b></p>
<p><b>10. Official Contact Details:</b></p>	<p><b><a href="mailto:gkinuthia@daystar.ac.ke">gkinuthia@daystar.ac.ke</a></b>  Mobile phone number +254 724 130 077</p>