



## CURRICULUM VITAE

**DR. GAVAMUKULYA Yahaya (Ph.D.)**

**BSc, MSc, Ph.D.**



### BIODATA

First name : Yahaya  
Surname : Gavamukulya  
Nationality : Ugandan  
Sex : Male  
Date of Birth : 04<sup>th</sup> October, 1988  
Place of Birth : Kaliro, Uganda  
Parents : Father – Kirenzi Harun Gavamukulya; Mother – Kirenzi Jamia Babirye (Mrs.)  
Marital status : Married to Dr Jalia Lulenzi Gavamukulya (Mrs.)  
Children : 3 (2 Daughters, 1 Son)

### CONTACT ADDRESS

**Physical address:** Department of Biochemistry and Molecular Biology, Faculty of Health Sciences, Busitema University, 1460 Mbale, Pallisa Road, Mbale – Uganda. Map Plus Code: 35GG+R2 Mbale, Uganda

**Mobile:** +256 7PR 869 P83 | +256 7RR 897 6P3

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**Facebook:** [Gavamukulya Yahaya](#) | **Twitter:** [@gavayahya](#) | **Skype:** gavayahya1

[Google-Scholar](#) | [ORCiD](#) | [ResearchGate](#) | [Scopus](#) | [LinkedIn](#)

**Websites:** [www.busitema.ac.ug](http://www.busitema.ac.ug) | [www.fhs.busitema.ac.ug](http://www.fhs.busitema.ac.ug) | [Gavamukulya Yahaya](#)

### KNOWLEDGE OF LANGUAGES

(Lulamogi and Lusoga, mother tongue), (English, fluency in spoken and written), (Arabic, fluency in reading and writing, poor at spoken), (French, poor), (Luganda, good), and (Swahili, poor)

### CAREER OBJECTIVE

To acquire a challenging position in research and / or teaching, as well as outreach and to be a leader in research and teaching programs with a passion to innovate for sustainable development.

### RESEARCH INTERESTS

Cancer Biology, Drug Discovery, Molecular Diagnostics, Natural Products Bioprospecting, and Green Nanobiotechnology

## EDUCATION BACKGROUND

- October 2016 to November 2019 Pan African University – African Union Commission; Pan African University Institute for Basic Sciences Technology and Innovation (PAUSTI) | Jomo Kenyatta University of Agriculture and Technology, Nairobi – Kenya. Doctor of Philosophy (Molecular Biology and Biotechnology). Title of Ph.D. Thesis: “**Biosynthesis of *Annona muricata* silver nanoparticles and biochemical evaluation of their anticancer activities on selected adenocarcinomas**”.  
**Supervisors:** Prof Fred Wamunyokoli (JKUAT, KE), Dr Esther N Maina (UoN, KE), Prof Hany A El-Shemy (Cairo University, EG) and Prof Gabriel Magoma (PAUSTI, KE)
- September 2016 Stellenbosch University | African Doctoral Academy. NQF Level 7 Course – **Becoming A Lecturer: Teaching and Learning in Higher Education**. Joint Doctoral School: Makerere University / Stellenbosch University; Kampala, Uganda.
- November 2012 to November 2014 Pan African University – African Union Commission; Pan African University Institute for Basic Sciences Technology and Innovation (PAUSTI) | Jomo Kenyatta University of Agriculture and Technology, Nairobi – Kenya. Master of Science in Molecular Biology and Biotechnology. Title of M.Sc. Thesis: ***Phytochemical composition, anti-oxidant and in vitro cytotoxic properties of extracts of leaves of Annona muricata (Graviola)***.  
**Supervisors:** Prof Fred Wamunyokoli (JKUAT, KE) and Prof Hany A El-Shemy (Cairo University, EG).
- August 2008 to June 2011 Makerere University – Uganda. Bachelor of Science (first class honours): Fields of study; Biochemistry (major) and Botany (minor). Final year project: ***Analysis of C - Reactive Protein and Alpha-1-Acid Glycoprotein by Radial immunodiffusion method: inter and intra- analysis variation***. **Project Supervisor:** Dr Rhona K Baingana (Ph.D.).

February 2006 to November 2007	King's College, Budo. Uganda Advanced Certificate of Education (UACE).
March 2002 to November 2005	Bukoyo Secondary School. Uganda Certificate of Education (UCE)
January 1995 to November 2001	Bupadhengo Day and Boarding Primary School. Primary Leaving Examination (PLE)

## **WORK EXPERIENCE**

August 2020 to date	<b>Senior Lecturer</b> (Biochemistry and Molecular Biology); Busitema University, Faculty of Health Sciences (BUFHS). <i>Duties and Responsibilities:</i> Teaching, Learning, Research and Outreach. <i>Programs:</i> Bachelor of Medicine and Bachelor of Surgery (MBChB), Bachelor of Science in Nursing (BNS), Bachelor of Science in Anaesthesia (BNA), M. Med (Internal Medicine), M. Med (Paediatrics and Child Health).
July 2015 to July 2020	<b>Lecturer</b> (Biochemistry and Molecular Biology); BUFHS. <i>Duties and Responsibilities:</i> Teaching, Research and Outreach. <i>Programs:</i> Bachelor of Medicine and Bachelor of Surgery (MBChB), Bachelor of Science in Nursing (BNS), Bachelor of Science in Anaesthesia (BNA), M. Med (Internal Medicine), M. Med (Paediatrics and Child Health). <i>Courses:</i> Cells, Tissues and Body Systems; Blood and Body Fluids; GIT, Nutrition and Metabolism; Head, Neck and Locomotor Systems; Neuroscience; Cardiovascular and Respiratory Systems; Endocrine and Reproductive Systems, General Principles of Pathology, Principles of Microbiology and Immunology, Introduction to Pharmacology and Therapeutics, Laboratory medicine and Biochemical disorders, Neurology.
October 2011 to September 2012	<b>Education Officer</b> (Biology and Chemistry); Nakavule College School, Iganga - Uganda.
July 2011 to September 2011	<b>Quality Control Microbiologist/ QC Chemist;</b> Abacus Parenteral Drugs Limited, Mukono - Uganda. <i>Duties and</i>

*responsibilities:* General environmental monitoring, as well as microbial analysis of the parenteral products produced in each batch, Chemical analysis of the raw materials and Products for the different parameters, Routine chemical analysis for the different batches, Quality control and Quality Assurance.

June to August 2010

**Industrial Trainee;** Directorate of Government Analytical Laboratory, Kampala - Uganda.

January 2008 to 2009

**Staff Trainee** (Chemistry, Biology and Mathematics); Nakavule College School, Iganga – Uganda.

### **OTHER POSITIONS OF RESPONSIBILITY HELD**

February 2023 to Date

Member, National Advisory and Planning Committee for the 12<sup>th</sup> Annual National Research and Ethics Conference (ANREC) of the Uganda National Council for Science and Technology.

October 2022 – November, 2022

Secretary to the Pan African University Alumni Association Electoral Committee.

March 2022

Ag. Deputy Dean Research and Academic Affairs, BUFHS.

October 2021 to Date

Member, Busitema University Contracts Committee.

October 2021 – November 2021

Pathogen Economy Cluster (PEC) Focal Person Busitema University, in organization of the Uganda National Science Week Celebrations and exhibitions under the Science, Technology and Innovations – Office of the President.

August 2021 to Date

Member, Busitema University Communications Policy Committee

August 2021 to March 2022

Member, Busitema University Guild E-voting System Development Committee

March 2021 to May 2022	Lead Project Biochemist, SARS-CoV2 <i>in vitro</i> studies on use of Ugandan Natural Products for Management of COVID-19. A collaborative project between Busitema University, Natural Chemotherapeutics Research Institute and Uganda Virus Research Institute (UVRI), through the Presidential Scientific Initiative on Epidemics (PRESIDE).
February 2021 to Date	Vice Chairperson, BUFHS Research and Ethics Committee (BUFHS-REC).
March 2021 to June 2021	Member Organizing Committee of the Busitema University 1 <sup>st</sup> Annual Science, Technology and Innovation Symposium (1BUSTIS).
February 2021 to March 2021	Secretary to the Busitema University Academic Staff Association (BUASA) Electoral Commission 2021.
January 2021 to Date	BUFHS Representative to the Busitema University Ceremonies Committee of Senate.
November 2020 to Date	Head, Department of Biochemistry and Molecular Biology, BUFHS
July 2020 to Date	General Secretary, The Kings College Budo 6B (KCB 6B) Class of 2007 Investments Club Limited.
February 2020 to Date	Chair, and Member BUFHS Higher Degrees Basic Sciences Sub Committee
January 2020 to Date	Member, BUFHS Education and Library Committee
January 2020 to May 2021	Chair and Member, BUFHS ICT Committee
January 2020 to October 2022	BUFHS Block 1 Coordinator, MBChB, BNA & BNS 1&2
January 2020 to October 2020	Acting Head, Department of Biochemistry and Molecular Biology, BUFHS
July 2019 to Date	Member, Community Based Education, Research and Services Committee (COBERS), BUFHS

July 2016 to Date	Member, BUFHS Higher Degrees and Research Committee.
August 2016 to Date	Senior Advisor, BUFHS Basoga Nseete Students' Association
August 2015 to Date	Patron, BUFHS Muslim Students' Association
August 2015 to October 2017	Acting Head, Department of Biochemistry and Molecular Biology, BUFHS
March 2017 to December 2017	Interim Chair, PAUSTI Alumni Association
August 2016 to May 2018	BUFHS Block 1 Coordinator, MBChB, BNA & BNS 1&2
July 2016 to November 2016	Member, Scientific Committee for the 1 <sup>st</sup> Uganda National Conference on Antimicrobial Resistance
February 2016	Member, BUFHS Select Committee on Assessment of Undergraduate Practical Exams.
August 2015 to date	BUFHS Course Coordinator; MED/BNS 1202 GIT, Nutrition and Metabolism.
August 2015 to October 2017	Member, BUFHS Appointments and Promotions Board.
August 2015 to October 2017	Member, BUFHS Finance Committee.
November 2012 to November 2014	Molecular Biology and Biotechnology Course Representative at the Pan African University Institute for Basic Sciences, Technology and Innovation.
September 2014 to Date	Secretary for Publicity, The Kings College Budo 6B (KCB 6B) Class of 2007 Association.
December 2013 to July 2014	Acting Deputy Corporate Communications Officer, Uganda Society of Professional Chemists (USPC)
2010 to 2011	President, Makerere University Biochemistry Society



Ahmed A. Abdille, Shedrack Reuben Kitimu, Mark M. Ndubi, Josephine Kimani, Esther N. Maina, Wallace Bulimo, **Yahaya Gavamukulya**, and Fred Wamunyokoli. (2022). Sub-acute and sub-chronic toxicity assessment of the antimicrobial peptide Dermaseptin B2 on biochemical, haematological and histopathological parameters in BALB/c mice and Albino Wistar rats. **Heliyon**; 8 (2022) e12124. DOI: <https://doi.org/10.1016/j.heliyon.2022.e12124>

Kisakye, E., **Gavamukulya, Y\***, and Barugahare, J.B. (2022). Sick cell trait screening in students in a Ugandan university: a cross-sectional study. **Journal of International Medical Research**; 50(11) 1–11. DOI: <https://doi.org/10.1177/03000605221138491>

Mbabazi, F.K., **Gavamukulya, Y.**, Awichi, R., Olupot-Olupot, P., Rwahwire, S., Biira, S., and Luboobi, L.S. (2022). A Mathematical Model Approach for Prevention and Intervention Measures of the COVID-19 Pandemic in Uganda. **Asian Research Journal of Mathematics**; 18(11): 233-248. DOI: <https://doi.org/10.9734/ARJOM/2022/v18i11598>

Tumwakire, E., Arnd, H., and **Gavamukulya, Y\***. (2022). A qualitative exploration of Ugandan mental health care workers' perspectives and experiences on sexual and reproductive health of people living with mental illness in Uganda. **BMC Public Health**; 22:1722 <https://doi.org/10.1186/s12889-022-14128-2> ; <https://rdcu.be/cVScE>

Tumwakire, E., Ashaba, S., Mubangizi, V., and **Gavamukulya, Y\***. (2022) Sexual and reproductive health knowledge and practices among youth with and without mental illness in Uganda: a comparative study. **Tropical Medicine and Health**; 50, 51. DOI: <https://doi.org/10.1186/s41182-022-00444-1> ; <https://rdcu.be/cTQBg>

Semwogerere, T., Kucel, S.B., Igga, H., Lusiba, B., **Gavamukulya, Y\***, Namwanje, S., Awichi, R.O., Matovu, J.K.B., and Barugahare, J.B.. (2022). A Scoping Analysis of Theories, Models, and Standard Operating Procedures for the COVID-19 Pandemic in Uganda. **International Journal of TROPICAL DISEASE and Health**; 43 (14): 1-7. DOI: <https://doi.org/10.9734/IJTDH/2022/v43i1430638>

Abdille, A.A., Kimani, J., Wamunyokoli, F., Bulimo, W., **Gavamukulya, Y.**, and Maina, E.N. (2021). Dermaseptin B2's Anti-proliferative Activity and Down Regulation of Anti-proliferative, Angiogenic and Metastatic Genes in Rhabdomyosarcoma RD Cells *In Vitro*. **Advances in Bioscience and Biotechnology**, 12, 337-359, DOI: <https://doi.org/10.4236/abb.2021.1210022>

Bor, H., Maina. E.N, Nyambega. B., Patel. T. K., Ochieng' Olwal. C., Nalyanya., W., and **Gavamukulya, Y\***. (2021). The Potential of Differentiation-Related Gene-1 (*DRG1*) as a Biomarker for Metastasis of Estrogen Receptor-Positive Breast Cancer. **Journal of Advances in Medicine and Medical Research**; 33(20): 162-169, DOI: <https://doi.org/10.9734/JAMMR/2021/v33i2031118>



Obakiro. S.B., Kiprop. A., Kigundu. E., K'owino. I., Kiyimba. K., Kato. C.D., **Gavamukulya. Y.** (2021). Sub-acute toxicity effects of methanolic stem bark extract of *Entada abyssinica* on biochemical, haematological and histopathological parameters in Wistar Albino rats. **Frontiers in Pharmacology**; <https://doi.org/10.3389/fphar.2021.740305>

Chikwana. N., Maina. E.S., **Gavamukulya. Y\***, Bulimo. W., and Wamunyokoli. F. (2021). Antiproliferative Activity, *c-Myc* and *FGFR1* Genes Expression Profiles and Safety of *Annona muricata* Fruit Extract on Rhabdomyosarcoma and BALB/c Mice. **Journal of Complementary and Alternative Medical Research**; 14(4): 30-46, DOI: <https://doi.org/10.9734/JOCAMR/2021/v14i430253>

**Gavamukulya, Y\***, Maina, E.N., El-Shemy, H.A., Meroka, A.M., Kangogo, G. K., Magoma, G., and Wamunyokoli, F. (2021). *Annona muricata* mediated silver nanoparticles exhibit strong anticancer activities against cervical and prostate adenocarcinomas through regulation of *CASP9* and the *CXCL1/CXCR2* genes axis. **Tumor Biology**. 43 (2021):37-55, DOI: <https://doi.org/10.3233/TUB-200058>

Nekaka, R., Oboth, P., Nteziyaremye, J., **Gavamukulya, Y.**, Ssenyonga, L.V.N., Iramiot, J.S. (2021). Sero-Prevalence and Factors Associated with *Helicobacter pylori* Infection in a Rural Population in Eastern Uganda: A community cross-sectional study. **Prim Health Care**, 2021, 11(4), 378

Obakiro, S.B., Kiprop, A., Kigundu, E.M., Kowino, I., Odero, M.P., Manyim, S., Omara, T., **Gavamukulya, Y.**, Bunalema, L., and Namukobe, J. (2021). Traditional Medicinal Uses, Phytoconstituents, Bioactivities, and Toxicities of *Erythrina abyssinica* Lam. ex DC. (Fabaceae): A Systematic Review. **Evidence Based Complementary and Alternative Medicine**. Volume 2021, Article ID 5513484, 43 pages, <https://doi.org/10.1155/2021/5513484>

Wakooko, P., **Gavamukulya, Y\***, and Wandabwa, J. (2020). Viral load suppression and associated factors among HIV Patients on antiretroviral treatment in Bulambuli District, Eastern Uganda: A retrospective cohort study. **Infectious Diseases: Research and Treatment**; 13 (1):1-9. DOI: <https://doi.org/10.1177/1178633720970632>

Tumusiime, R., Mukasa, C., Kisakya-Maria, K.A, Neumbe, I.M., Odyeny, J., Maube, B., **Gavamukulya, Y\***, and Nekaka, R. (2020). Baseline Assessment of Risk Factors of Presumptive Tuberculosis among under Five Children Living with an Index Client under Treatment in Mbale District, Eastern Uganda. **Microbiology Research Journal International**; 30(5):1-8. DOI: <https://doi.org/10.9734/mrji/2020/v30i530214>

Mbabazi, F.K., **Gavamukulya, Y.**, Awichi, R., Olupot-Olupot, P., Rwahwire, S., Biira, S., and Luboobi, L.S. (2020). COVID-19 Forecast and Prediction: A Mathematical Model Approach for Prevention and Intervention Measures of the COVID-19 Pandemic in Uganda. **MedRxiv Pre-Print**; DOI: <https://doi.org/10.1101/2020.05.08.20095067>

**July 2014 to April 2020**

Maina, E.N., Njau, V.N., and **Gavamukulya, Y\***. (2020). Phytochemical analysis and Antileishmanial activity of *Clerodendrum myricoides* and *Salvadora persica* plant extracts against *Leishmania major*. **Journal of Complementary and Alternative Medical Research**; 9(1): 29-44. DOI: <https://doi.org/10.9734/jocamr/2020/v9i130134>

Madivoli, E. S., Kareru, P. G., Gachanja, A. N., Mugo, S. M., Makhanu, D. S., Wanakai, S. I., **Gavamukulya, Y.** (2020). Facile Synthesis of Silver Nanoparticles Using *Lantana trifolia* Aqueous Extracts and Their Antibacterial Activity. **Journal of Inorganic and Organometallic Polymers and Materials**. <https://doi.org/10.1007/s10904-019-01432-5>

Nabwana, W. B., Namayanja, S. S., Kemigisha, C., Kisakye, E., Kusetula, A. K., Wakabi, S., Wambi, I., Musiime, I., Nekaka, R., **Gavamukulya, Y\***. (2019). Socio-demographic determinants of Vaccine Coverage for Pneumococcus and Rota Virus Among Under Five Children in Busolwe Town Council, Butaleja District, Eastern Uganda. **International Journal of TROPICAL DISEASE and Health**; 39 (3): 1-13. DOI: <https://doi.org/10.9734/IJTDH/2019/v39i3302094>

**Gavamukulya, Y.**, Maina, E.N., Wamunyokoli, F., Meroka, A.M., Madivoli, E.S., El-Shemy, H.A., and Magoma, G. (2019). Synthesis and characterization of silver nanoparticles from ethanolic extracts of leaves of *Annona muricata*: A green nanobiotechnology approach. **Biotechnology Journal International**; 23 (4): 1-18. DOI: <https://doi.org/10.9734/bji/2019/v23i430083>

**Gavamukulya, Y.**, Maina, E.N., Meroka, A., El-Shemy, H.A., Magoma, G., and Wamunyokoli, F. (2019). In search for new anticancer drugs: Data for cytotoxic activities of green synthesized silver nanoparticles from ethanolic extracts of fruits and leaves of *Annona muricata* and 5-Fluorouracil against HeLa, PC3 and PNT1A Cell lines. **Data in Brief**; 26:104442. DOI: <https://doi.org/10.1016/j.dib.2019.104442>

**Gavamukulya, Y.**, Maina, E.N., Meroka, A., Madivoli, E.S., El-Shemy, H.A., Wamunyokoli, F., and Magoma, G. (2019). Green Synthesis and Characterization of Highly Stable Silver Nanoparticles from Ethanolic Extracts of Fruits of *Annona muricata*. **Journal of Inorganic and Organometallic Polymers and Materials**. <https://doi.org/10.1007/s10904-019-01262-5> . Url: <https://rdcu.be/bK3sP>

Nabwana, W. B., Namayanja, S. S., Kemigisha, C., Kisakye, E., Kusetula, A. K., Wakabi, S., Wambi, I., Musiime, I., Nekaka, R., **Gavamukulya, Y\***. (2019). Towards Universal Health

Coverage: Data for Determinants of Immunization Coverage of Pneumococcal and Rota Virus Vaccines Among Under Five Children in Busolwe Town Council, Butaleja District, Eastern Uganda. **Data in Brief**; 25:104269. DOI: <https://doi.org/10.1016/j.dib.2019.104269>

Nambala, E., Byakika-Tusiime, J., and **Gavamukulya, Y\***. (2019). Nutritional knowledge and practice among Patients with non-communicable diseases attending Mbale Regional Referral Hospital in Eastern Uganda: A cross sectional study. **International Journal of TROPICAL DISEASE and Health**; 37 (1): 1-11. DOI: <https://doi.org/10.9734/IJTDH/2019/v37i130154>

**Gavamukulya, Y.**, El-Shemy, H.A., Meroka, A., Madivoli, E.S., Maina, E.N., Wamunyokoli, F., and Magoma, G. (2019). Advances in green nanobiotechnology: Data for synthesis and characterization of silver nanoparticles from ethanolic extracts of fruits and leaves of *Annona muricata*. **Data in Brief**; 25:104194. DOI: <https://doi.org/10.1016/j.dib.2019.104194>

**Gavamukulya, Y.**, Maina, E.N., Meroka, A., Madivoli, E.S., El-Shemy, H.A., Magoma, G., Wamunyokoli, F. (2019). Liquid Chromatography Single Quadrupole Mass Spectrometry (LC/SQ MS) Analysis Reveals Presence of Novel Antineoplastic Metabolites in Ethanolic Extracts of Fruits and Leaves of *Annona muricata*. **Pharmacognosy Journal**. 11(4): 660–668. DOI: <https://doi.org/10.5530/pj.2019.11.104>

Oboth, P., **Gavamukulya, Y\***, Barugahare, B.J. (2019). Prevalence and clinical outcomes of *Plasmodium falciparum* and intestinal parasitic infections among children in Kiryandongo refugee camp, mid-Western Uganda: A cross sectional study. **BMC Infectious Diseases**; 19(295):1-8. DOI: <https://doi.org/10.1186/s12879-019-3939-x> Url: <https://rdcu.be/buj6I>

Aguti, B., Kalema, G., Lutwama, D.M, Mawejje, M.L., Mupeyi, E., Okanya, D., Nekaka, R., and **Gavamukulya, Y\***. (2018). Knowledge and Perception of Caregivers about Risk Factors and Manifestations of Pneumonia among Under Five Children in Butaleja District, Eastern Uganda. **Microbiology Research Journal International**; 25(3):1-11. DOI: <https://doi.org/10.9734/MRJI/2018/44179>

Manzi, F., Ogwang. J., Akankwatsa, A., Wokali, O.C., Obba, F., Bumba, A., Nekaka, R., and **Gavamukulya, Y\***. (2018). Factors Associated with Teenage Pregnancy and its Effects in Kibuku Town Council, Kibuku District, Eastern Uganda: A Cross Sectional Study. **Prim Health Care** 8: 298. DOI: <https://doi.org/10.4172/2167-1079.1000298>

**Gavamukulya, Y.**, Wamunyokoli, F., and El-Shemy, H.A. (2017). *Annona muricata*: is the natural therapy to most disease conditions including cancer growing in our backyard? A systematic review of its research history and future prospects. **Asian Pac J Trop Med**; 10 (9): 835-848. DOI: <http://dx.doi.org/10.1016/j.apjtm.2017.08.009>

Abou-Elella, F., Hanafy, E. A., and **Gavamukulya, Y\***. (2016). Determination of antioxidant and anti-inflammatory activities, as well as in vitro cytotoxic activities of extracts of *Anastatica hierochuntica* (Kaff Maryam) against HeLa cell lines. **Journal of Medicinal Plants Research**, 10(7), 77-87. DOI: <https://doi.org/10.5897/JMPR2015.6030>

**Gavamukulya, Y.**, Abou-Elella, F., Wamunyokoli, F., and El-Shemy, H.A. (2015). GC-MS Analysis of Bioactive Phytochemicals Present in Ethanolic Extracts of Leaves of *Annona muricata*: A Further Evidence for Its Medicinal Diversity. **Pharmacognosy Journal**; 7 (5):300-304. DOI: <https://doi.org/10.5530/pj.2015.5.9>

**Gavamukulya, Y.**, Abou-Ellela, F., Wamunyokoli, F., and El-Shemy, H.A. (2014). Phytochemical screening, anti-oxidant activity and *in vitro* anticancer potential of ethanolic and water leaves extracts of *Annona muricata* (Graviola). **Asian Pac J Trop Med**; 7(1): S355-S363. Doi: [https://doi.org/10.1016/S1995-7645\(14\)60258-3](https://doi.org/10.1016/S1995-7645(14)60258-3)

#### **b. Books and Theses**

**Gavamukulya, Y.**, (2019). Ph.D. Thesis: **Biosynthesis of *Annona muricata* silver nanoparticles and biochemical evaluation of their anticancer activities on selected adenocarcinomas**. Pan African University Institute for Basic Sciences, Technology and Innovation, Nairobi, Kenya.

**Gavamukulya, Y.**, (2014). MSc Thesis: Phytochemical Composition, Anti-oxidant and *in Vitro* Cytotoxic Properties of Extracts of Leaves of *Annona muricata* (Graviola). Pan African University Institute for Basic Sciences, Technology and Innovation, Nairobi, Kenya. Doi: <https://doi.org/10.13140/RG.2.1.3446.4484> .

#### **c. Datasets, Programs, Codes and Sequences**

Nabwana, W. B., Namayanja, S. S., Kemigisha, C., Kisakye, E., Kusetula, A. K., Wakabi, S., Wambi, I., Musiime, I., Nekaka, R., **Gavamukulya, Y.** (2019), “Data for Determinants of Immunization Coverage of PCV and Rota Virus Among Under Five Children in Busolwe Town Council, Butalejja District, Eastern Uganda”, Mendeley Data, v1, <http://dx.doi.org/10.17632/zr2w886dg2.1>

**Gavamukulya, Y.**, Maina, E. N., Meroka, A. M., Madivoli, E. S., El-Shemy, H. A., Wamunyokoli, F., Magoma, G. (2019). Data for green synthesis and characterization of silver

nanoparticles from ethanolic extracts of fruits of *Annona muricata*. Mendeley Data, v1, <http://dx.doi.org/10.17632/jkj2x782wh.1>

**Gavamukulya, Y.**, El-Shemy, H.A., Meroka, A. M., Madivoli, E. S., Magoma, G., Wamunyokoli, F., Maina, E. N. (2019). Data for green synthesis and characterization of silver nanoparticles from ethanolic extracts of leaves of *Annona muricata*. Mendeley Data, v1, <http://dx.doi.org/10.17632/f4mb6b488n.1>

Wakooko, P., **Gavamukulya, Y.**, Byakika-Tusiime, J. (2019). Data on viral load suppression and associated factors among HIV Patients on antiretroviral treatment in Bulambuli District, Eastern Uganda. Mendeley Data, v1 <http://dx.doi.org/10.17632/9jwbg82wg7.1>

Nambala, E., Byakika-Tusiime, J., **Gavamukulya, Y.** (2019). Data for nutritional knowledge and practice among patients with non-communicable diseases attending Mbale Regional Referral Hospital in Eastern Uganda. Mendeley Data, v1. <http://dx.doi.org/10.17632/y5kdzmzj7b.1>

#### **d. Manuscript under Review**

N/A

#### **PRESENTATIONS AT CONFERENCES, SYMPOSIA AND SEMINARS**

**Gavamukulya, Y.**, Maina, E.N., El-Shemy, H.A., Meroka, A.M., Kangogo, G. K., Magoma, G., and Wamunyokoli, F. *Annona muricata* mediated silver nanoparticles exhibit strong anticancer activities against cervical and prostate adenocarcinomas through regulation of *CASP9* and the *CXCL1/CXCR2* genes axis; Virtual 7<sup>th</sup> All African Congress on Basic and Clinical Pharmacology, 15<sup>th</sup> – 17<sup>th</sup> September 2021.

Edwin Shigwenya Madivoli, Patrick Gachoki Kareru, Anthony Ngure Gachanja, Samuel Mutuura Mugo, David Sujee Makhanu , Sammy Indire Wanakai, **Gavamukulya, Y.** Facile Synthesis of Silver Nanoparticles Using *Lantana trifolia* Aqueous Extracts and Their Antibacterial Activity; Virtual 7<sup>th</sup> All African Congress on Basic and Clinical Pharmacology, 15<sup>th</sup> – 17<sup>th</sup> September 2021.

**Gavamukulya, Y.** (2020). Green Nanobiotechnology: Biosynthesis of *Annona muricata* Silver Nanoparticles and Biochemical Evaluation of their Anticancer Activities on Selected Adenocarcinomas; Natural Products Research Network for Eastern and Central Africa Uganda Chapter (NAPRECA-U). Virtual Research Seminar, September 2020.

**Gavamukulya, Y.** (2020). Green Nanobiotechnology: Biosynthesis of *Annona muricata* Silver Nanoparticles and Biochemical Evaluation of their Anticancer Activities on Selected Adenocarcinomas; Busitema University Virtual Research Seminar Series. Tuesday, June 02, 2020.

**Gavamukulya, Y.** (2020). Green Nanobiotechnology: Biosynthesis of *Annona muricata* Silver Nanoparticles and Biochemical Evaluation of their Anticancer Activities on Selected Adenocarcinomas; Biochemistry Seminar Series (Guest Speaker Seminar), Department of Biochemistry and Sports Sciences, College of Natural Sciences (CoNAS), Makerere University, Kampala - Uganda. Thursday, March 12, 2020.

**Gavamukulya, Y.,** Maina, E. N., El-Shemy, H. A., Wamunyokoli, F., and Magoma, G. (2019). Synthesis and Characterization of Nanoparticles from Extracts of Fruits of *Annona muricata*: A green nanobiotechnology approach. Conference paper presentation, Kirinyaga University 3<sup>rd</sup> International Conference, September 11-13, 2019. Kerugoya, Kirinyaga County, Kenya.

**Gavamukulya, Y.** (2019). Recent advances in cancer drugs research: A green nanobiotechnology approach. Cancer Seminar 2019; Uganda Cancer Institute, Busitema University Faculty of Health Sciences and Mbale Regional Referral and Teaching hospital. Health Manpower Development Centre, Mbale – Uganda, 18<sup>th</sup> April 2019.

#### OTHER CONFERENCES, SYMPOSIA AND SEMINARS ATTENDED

Uganda National Pathogen Economy Forecasting Workshop. 23<sup>rd</sup> – 25<sup>th</sup> May 2022. Hotel Africana, Kampala, Uganda.

Uganda Pathogen Economy Symposium 2022. 12<sup>th</sup> - 13<sup>th</sup> May 2022. Imperial Royale Hotel, Kampala, Uganda.

Re-imagining the Natural Products Industry in Africa Conference (RPNIA – 2021). 5<sup>th</sup> – 7<sup>th</sup> July 2021. Virtual and Physical at Imperial Royale Hotel Kampala, Uganda.

World Health Summit 2021 Regional Meeting. 28<sup>th</sup> – 30<sup>th</sup> June, 2021. Virtual and Physical, Kampala, Uganda.

The Busitema University 1<sup>st</sup> Annual Science, Technology and Innovation Symposium (1BUSTIS). 24<sup>th</sup> – 25<sup>th</sup> June, 2021. Virtual, Busitema University, Uganda.

Natural Products Research Network for Eastern and Central Africa Uganda Chapter (NAPRECA-U). Virtual Research Seminar, September 2020.

Uganda National Conference on Antimicrobial Resistance. 21<sup>st</sup> – 22<sup>nd</sup> November 2016; Wash and Wills Hotel, Mbale – Uganda

## GRADUATE STUDENTS' SUPERVISION

### *a. Completed*

**Oboth, Paul.** (April 2017 – September 2018). Prevalence of *Plasmodium falciparum* and Intestinal Parasitic Infections Among Children in Kiryandongo Refugee Camp Mid-Western Uganda: A Cross-sectional Study. Dissertation for the Award of the Degree of Master of Public Health of Busitema University. **Graduated: Wednesday 3<sup>rd</sup> October, 2018**

**Wakooko, Paul.** (February 2018 – December 2019). Viral Load Suppression and Associated Factors Among HIV Infected Individuals on Antiretroviral Treatment in Bulambuli District, Eastern Uganda: A Retrospective Cohort Study. Dissertation for the Award of the Degree of Master of Public Health of Busitema University. **Graduated: Friday 19<sup>th</sup> March, 2021**

**Nambala, Esther.** (April 2017 – December 2019). Nutritional Knowledge and Practice Among Patients with Non-Communicable Diseases Attending Mbale Regional Referral Hospital in Eastern Uganda: A Cross Sectional Study. Dissertation for the Award of the Degree of Master of Public Health of Busitema University. **Graduated: Friday 19<sup>th</sup> March, 2021**

### *b. On going*

**Kiyimba, Kenedy.** (January 2021 – To date). Evaluation of the antiproliferative effect of green synthesized *Polyscias fulva* silver nanoparticles on human leiomyoma cells and estradiol benzoate-induced uterine fibroids in Wistar rats. Thesis for the Award of the Degree of Doctor of Philosophy in Molecular Pharmacology of The University of Nairobi.

**Tarus Jerono Sharon.** (January 2023 – To date). Assessment of Antibacterial, Cytotoxicity, Delayed Hypersensitivity and Intracutaneous Reactivity of Sanitary Towels Infused with Herbal Extracts. Thesis for the Award of the Degree of Doctor of Philosophy in Analytical Chemistry of Kenyatta University.

**Nawita Emmanuel Were.** (August 2022 – To date). Factors Associated with Use of Herbal Medicines for COVID-19 Related Symptoms Among Households in Mukono Municipality, Uganda. Dissertation for the Award of the Degree of Master of Public Health of Busitema University.

#### UNDERGRADUATE STUDENTS' PROJECTS MENTORSHIP AND SUPERVISION

**Kagoya, Catherine.** (March 2022 – To January 2023). Knowledge, Perceptions and Practices Towards Blood Donation Among Undergraduate Medical Students at Busitema University Faculty of Health Sciences. Research Project for the Award of the Degree of Bachelor of Science in Nursing of Busitema University.

**Kisakye, Erinah.** (March 2021 – January 2022). Sickle Cell Trait Screening Among Youth in Ugandan Universities: A Case Study of Busitema University Faculty of Health Sciences, Mbale, Uganda. Research Project for the Award of the Degree of Bachelor of Science in Nursing of Busitema University.

**Nakirya, Sumaya H.** (March 2021 – January 2022). Prevalence of Acute Upper Respiratory Tract Infections in Under 5 Children Hospitalised at Mbale Regional Referral Hospital: A Retrospective Cross sectional Study. Research Project for the Award of the Degree of Bachelor of Science in Nursing of Busitema University.

**Namugerwa, Christine H.** (March 2021 – January 2022). Knowledge and Attitude Towards Sickle Cell Anemia Among Care Givers of Paediatric Sickle Cell Patients at Mbale Regional Referral Hospital. Research Project for the Award of the Degree of Bachelor of Science in Nursing of Busitema University.

**Nabwana Wafana Brenda, Namayanja Sidney Sylvia, Wakabi Sylivester, Kemigisha Collete, Kusetula Amos Kudiza, and Kisakye Erina.** (2018/2019). Determinants of Immunization coverage of Pneumococcal and Rota virus vaccines among under five children in Busolwe Town Council, Butalejja District, Eastern Uganda. BUFHS – MBChB II & BNS II, 2018/2019 Academic year



**Akankwatsa Allen., Manzi Fred., Obaa Francis., Ogwang Joshua., and Wokali Oliver.** (2017/2018). Improvement of Knowledge About the Factors That Lead to And Effects of Teenage Pregnancy in Kibuku Town Council. BUFHS – MBChB III & BNS III, 2017/2018 Academic year

**Aguti Beatrice, Kalema Godfrey, Lutwama Dinah Maria, Mawejje Martin Loy, and Mupeyi Emmanuel.** (2017/2018). Determination of The Factors Contributing to The High Prevalence of Pneumonia Among Under-Five Children in Butalejja District, Eastern Uganda. BUFHS – MBChB II & BNS II, 2017/2018 Academic year.

**Akankwatsa Allen., Manzi Fred., Obaa Francis., Ogwang Joshua., and Wokali Oliver.** (2016/2017). Determination of The Root Causes and Effects of Teenage Pregnancies in Kibuku District. BUFHS – MBChB II & BNS II, 2016/2017 Academic year

**Keera Fuuna Ivan., Atyera Jimmy., Ssali Henry Kafeero., Imalingat Julius., and Iisa Pascal.** (2015/2016). Health Education as an Intervention Against The High Prevalence of Malaria Among Pregnant Women in Kobolwa Parish, Kibuku District. BUFHS – MBChB III, 2015/2016 Academic year

## **GRADUATE THESIS EXAMINATION**

**Kenneth Ssekataawa.** (2022). “Evaluation of nanoparticles and phages as candidate therapeutic agents for carbapenem resistant *Klebsiella pneumoniae* and *Escherichia coli*.” Opponent/ Discussant for the Thesis for the Award of the Degree of Doctor of Philosophy of Makerere University.

**Okeng Alfred.** (2022). “PowerPlex® Fusion 5C 22 autosomal short tandem repeat (STR) allele frequencies database and its forensic statistics for Ugandan population”. Dissertation for the Award of the Degree of Master of Science in Molecular Biology and Biotechnology of Makerere University.

**Idaroussi Faïda Khadidja.** (2022). “*Phytochemical Screening, Antibacterial and Antioxidant activities of Endemic Medicinal Plants used in the Comoros: Euclea mayottensis and Tambourissa comorensis.*” Dissertation for the Award of the Degree of Master of Science in Biochemistry of Makerere University.

**Aggrey Asimwe.** (2022). “*Y-Chromosome Genotyping of the Balamogi, the Bagwere and the Banyole of Eastern Uganda.*” Dissertation for the Award of the Degree of Master of Science in Biochemistry of Makerere University.

## **FELLOWSHIPS, RECOGNITIONS AND AWARDS**

Ranked among the top 725 (**242**) Scientists in Uganda, Biochemistry Best Scientist in Busitema University and 3<sup>rd</sup> best in Uganda by AD Scientific Index **Rankings 2022**

Named Elsevier's Global Mendeley Advisor of the Month (April 2020).

Best PhD Thesis Award in Molecular Biology and Biotechnology. Pan African University Institute for Basic Sciences, Technology and Innovation. November, 2019.

Honorary mention and recognition (Most innovative and published staff members at Busitema University 2019). Vice Chancellor's report during the Busitema University 10<sup>th</sup> Graduation Ceremony, 3<sup>rd</sup> October, 2019.

Pan African University - African Union Commission Scholarship tenable at the Institute for Basic Sciences, Technology and Innovation at the Jomo Kenyatta University of Agriculture and Technology, for PhD in Molecular Biology and Biotechnology. November, 2016 to November 2019.

BUFHS, Employee of The Year (Academic Staff Category), December 2016.

Karolinska Institutet Pre-doctoral Placement Award – Swedish Research Council. Karolinska Institutet, Solna, Stockholm- Sweden. June 2016.

Pan African University - African Union Commission Scholarship tenable at the Institute for Basic Sciences, Technology and Innovation at the Jomo Kenyatta University of Agriculture and Technology, for MSc degree. November, 2012 to November, 2014.

Graduate Research Fellowship (Cairo University Research Park, Egypt); April 2014 – May 2014

Government of Uganda Direct Entry Merit University Sponsorship (2008 to 2011) tenable at Makerere University for BSc degree

Nile Basin Initiative 2007: Nile Trans-boundary Environmental School Award, 4<sup>th</sup> Winner Overall

King's College Budo, Budonian Heart Award for Most Disciplined Student, 2007

Overall Best UCE Candidate; Greater Iganga and Kamuli Districts, January 2006

Students' Sage award by Bukoyo Secondary School, 2005

## **GRANTS, PROJECTS AND FUNDING AWARDS**

Co-PI; Enhancing Biodegradable Sanitary Towel Production through Utilization of Seaweed and Banana Pseudo stem Residues: A Value Addition Strategy”; Regional Scholarship and Innovation Fund’s (RSIF) Research Award 2021.

SARS-CoV-2 Invitro Studies Project hosted at Uganda Virus Research Institute (UVRI): 2020-2021 (560m UGX), 2021-2022 (1.4 billion UGX); Presidential Scientific Initiative on Epidemics- PRESIDE through Science, Technology and Innovation – Office of the President; Government of Uganda

Co-PI; Busitema University Natural Products and Drug Research Group (BUNaPREG) Herbal Medicine COVID-19 Study 2020: “Evaluation of the anti-SARS-CoV-2 activity of three selected Ugandan medicinal plants and formulation of herbal product (s) for management of COVID - 19”, 2020-2021 (450m UGX), 2021-2022 (2.4 billion UGX); (Presidential Scientific Initiative on Epidemics- PRESIDE through Ministry of Science, Technology and Innovation - MoSTI; Government of Uganda)

PI Busitema University Research Mentors Group 2020, Competitive Small Research Grant II, UGX 5m (Busitema University Directorate of Graduate Studies, Research and Innovation)

Team leader Busitema University Hand Sanitizer Project 2020; UGX 10.7m (Busitema University -TBIIC), UGX 3.5m (Busitema University Staff Associations) and UGX 32m (Seed Global Health Uganda).

## **PARTICIPATIONS, WORKSHOPS AND TRAININGS**

Human Subjects Protection Course (HSPC) organized by Uganda National Council for Science and Technology. 28<sup>th</sup> September – 1<sup>st</sup> October, 2021. Busitema University Faculty of Health Sciences, Mbale Uganda.

Good Clinical Laboratory Practice (GCLP) Training. 26<sup>th</sup> – 27<sup>th</sup> July 2021. Uganda Virus Research Institute, Entebbe, Uganda.

COVID-19 Training for Bio-research Laboratory Staff. 10<sup>th</sup> – 12<sup>th</sup> March 2021. Uganda Virus Research Institute, Entebbe, Uganda.

Simulation Medical Education Instructor Course. 9<sup>th</sup> – 11<sup>th</sup> December, 2020. Busitema University Simulation Centre.

TRREE training programme in research ethics evaluation training course on "Public Health Research Ethics". TRREE and Clinical Trials Centre, The University of Hong Kong. Date of Completion: 16/04/2020.

NIH Web-based training course on "Protecting Human Research Participants". The National Institutes of Health (NIH) Office of Extramural Research. Date of Completion: 07/20/2018, Certification Number: 2867186.

Training in basic principles in Laboratory Quality Systems and General Laboratory Practices. US Army Medical Research Directorate – Kenya, Department of Emerging and Infectious Diseases. June 2018; Nairobi – Kenya.

Safety training in Blood borne pathogens and infection control, Fire safety and evacuation, hazardous materials and chemical hygiene and General Laboratory safety. US Army Medical Research Directorate – Kenya, Department of Emerging and Infectious Diseases. June 2018; Nairobi – Kenya.

East African Community Workshop to Review EAC Joint Inspection Checklist for University Medical, Dental Schools & Teaching Hospitals. Wednesday 8<sup>th</sup> – Friday 10<sup>th</sup> March, 2017; Kenya Medical Practitioners and Dentists Board, Nairobi – Kenya

Grants Writing Workshop. April 2016; Wash and Wills Hotel, Mbale – Uganda.

Curriculum Development Workshop for the M. Med Obstetrics and Gynaecology Program at BUFHS. March 2016; Health Manpower Development Centre, Mbale Regional Referral and Teaching Hospital, Mbale - Uganda

Uganda National Academy of Sciences | Global Fund Uganda Country Coordinating Mechanism, National Constituency Engagement Meeting. 27<sup>th</sup> October 2015; Mount Elgon Hotel, Mbale – Uganda

Higher Education Institutions Institutional Cooperation Instruments (HEI-ICI) Workshop on Mathematics Education and Working Life Relevance in East Africa. July 31<sup>st</sup> to August 5<sup>th</sup> 2014; Pan African University Institute for basic Sciences, Technology and Innovation, Nairobi – Kenya

Workshop on Effective Supervision of Graduate Students at The Pan African University Institute for Basic Sciences, Technology and Innovation. 27<sup>th</sup> – 28<sup>th</sup> February 2014; African Institute for Capacity Development Assembly Hall, Nairobi – Kenya

Strategic Meeting on Innovations in Bio-energy for Sustainable Development. Uganda Society of Professional Chemists in Collaboration with Uganda National Council for science and Technology. April 2012; Metropole Hotel, Kampala – Uganda

Training and Implementation of Routine HIV Prevention Strategies, Counseling and Testing in Clinical Settings. *Supported by Global health and HIV/AIDS Initiative Uganda (GHAIND)*. May 2010; Makerere University, Kampala – Uganda

King's College Budo Representative for The Nile Basin Initiative Transboundary Environmental Action Project. 2007; Kampala – Uganda

## **PROFESSIONAL MEMBERSHIP**

Biochemistry and Biotechnology Society of Uganda (BBSU – December 2018 – to date); Busitema University Academic Staff Association (BUASA); American Society for Microbiology (2012 – to Present), Natural Products Research Network for Eastern and Central Africa (NAPRECA) (March 2018 – to Present).

## **COMMUNITY SERVICE**

February 2021 to Date Vice Chairperson, BUFHS Research and Ethics Committee (BUFHS-REC).

May 2021 – October 2022 UpToDate® Certified Trainer and Busitema University Champion for Better Evidence for Training, Wolters Kluwer.

October 2020 to Date Member Busoga Muslim Region Professionals and Entrepreneurs Consortium (BMR P&E). Member Education and Skills Development Sector and Health, Water and Sanitization Sectors of the BMR P&E.

2014 to Date Secretary for Publicity, The Kings College Budo 6B (KCB 6B) Class of 2007 Association.

April 2020 – May 2022	Team leader, Busitema University Hand Sanitizers Project for COVID-19 Emergency Response in Eastern Uganda.
December 2017 – November 2022	Secretary General, Pan African University Alumni Association (PAUAA)
February 2017 to Date	Google Level 7 Local Guide; Mapping the world for easy accessibility
February 2017 to date	Global Mendeley Advisor; Mendeley Reference Management. Institutions trained: PAUSTI/JKUAT (14 <sup>th</sup> Feb 2017, 20 <sup>th</sup> September 2018, 22 <sup>nd</sup> October, 2019); BUFHS (7 <sup>th</sup> April 2017, 6 <sup>th</sup> October, 2018); BUFMS (28 <sup>th</sup> October, 2019); Department of Emerging and Infectious Diseases, United States Army Medical Research Directorate – Kenya (8 <sup>th</sup> February, 2019); University of Nairobi (27 <sup>th</sup> June, 2019); International Centre of Insect Physiology and Ecology (icipe) – Nairobi Kenya (13 <sup>th</sup> November, 2019).
February 2012 to Date	Career Guidance Facilitator; Schools facilitated: Kings’ College, Budo, Nakavule College School, Kaliro Vocational Secondary School, Iganga High School, Jinja Progressive Academy, Bupadhengo Day and Boarding Primary School, Good Heart SS, Bukoyo Secondary School.
February 2012 to Date	Secretary for Publicity, The Kireenzi Family

**SKILLS AND EXPERTISE**

Teaching, Teamwork, Microsoft Office, Strategic Planning, Statistics, Research, Cell culture, Public Speaking, Honesty, Special Leadership Skills, and Creative writing.

**INTERESTS / HOBBIES**

Music, Reading and writing inspirational work as well as travelling and adventure.

## **ABRIDGED CV OF “FAILURES”**

This document would be incomplete without a brief summary of my most outstanding failures. Like many other people, there are times when I fail, but these failures are often invisible, while the successes are visible. Many a time, the successes I attain tend to mask the reality and as such, others who may be going through similar situations fail to relate to the facts and therefore attribute their own failure to themselves, rather than understanding the entire world in context.

Those who are lucky enough to attend some of my public talks (usually at functions and special dedication lectures) get to know some of the complicated situations I have sailed through, but those who are not lucky enough to listen to me never get to know the entire story. I shall make a confession that many a time, all that which I share comes from memory depending on the day and may not be complete in all aspects. This CV of Failures is similarly unlikely to be complete as it has been written from memory and may probably omit a lot of stuff, but it is in an attempt to balance the record and provide some perspective. Whereas I maybe among the first scholars to combine both CVs into one, this idea is not mine but I picked out the inspiration behind such an inclusion. You may find the wonderful original article behind this idea in Nature [here](#).

### **Degree Programs I did not get into**

- 2016            PhD in Molecular Diagnostics, Makerere University and Karolinska Institutet with full funding from the Mak-SIDA Program. Despite the scholarship, the field of research was not in line with my interests and therefore dropped out before full registration.
- 2015            PhD in Biomolecular Technology of Proteins, BioTop Research Group, Vienna, Austria. I was not successful in securing the scholarship.
- 2012            MSc in Biochemistry, Makerere University. I was admitted but failed to get funding for registration.

MSc in Global Health, London School of Hygiene and Tropical Medicine (LSHTM). I was admitted but failed to secure a scholarship.

2008 Doctor of Medicine, Muhimbili University of Health and Allied Sciences (MUHAS, Tanzania). I failed to secure funding through the Inter University Council for East Africa.

Bachelor of Pharmacy, Makerere University.

MBChB, Makerere University.

MBChB, Mbarara University of Science and Technology.

BSc. Telecommunications Engineering, Makerere University.

### **Scholarships I did not get**

The standard “*Thank you for your application for the Scholarship. We were overwhelmed with the applications and the quality of the applicants that applied for the opportunity. We do regret to inform you that your application for the scholarship was unsuccessful. We wish you well in your future endeavors*”, flooded my mails and lost track of how many I applied for. The following however remain outstanding:

2014, 2015 Pan African University (PAU) Scholarship for a PhD in Molecular Biology and Biotechnology. As you may have noticed already, I registered for my PhD at PAU after being successful on my third attempt! Just never give up especially if you are chasing something that you are interested in.

2012 Islamic Development Bank Scholarship for MSc in Biochemistry

Centre for Frontiers of Knowledge (CFK) Scholarship for MSc at Makerere University. Of the hundreds who applied, I am yet to meet one who won the scholarship!!!

2008 Inter University Council of East Africa (IUCEA) Scholarship for Doctor of Medicine Course



Algerian Government Scholarship for B. Pharm in Algeria. My name was literally removed from the list of interviewees as I entered the interview room at the Uganda Ministry of Education and Sports Board Room, at Development House, Kampala.

### **Fellowships and Awards I did not get**

- 2018 Africa-ai-Japan Innovations Grant Award for my PhD to a tune of 10,000\$.  
African Doctoral Academy Early Doctoral Program Fellowship 2019
- 2012 BTC – Belgium Government Environmental Innovations Research Grant
- 2010 iSFIT 2010  
BUSS (Biology Undergraduate Summer School), ETH, Zurich, Switzerland

### **Paper rejections from academic journals**

This list does not include upfront rejections that were made at the editorial assessment stage before peer review, as these may over crowd the little space I have. Only those that went through the entire peer review cycle are listed.

- 2021 Technologies in Cancer Research and Treatment,  
2020 BMC Complementary and Alternative Therapies,  
2019 Nano Today, PloS One, BMC Infectious Diseases, Nature Cancer, Oncogene
- 2018 Alexandria Journal of Medicine, International Journal of Paediatrics and Adolescent Health
- 2017 African Journal of Reproductive Health
- 2015 Free Radical Biology and Medicine, Asian Pacific Journal of Tropical Medicine

### **Jobs I did not get:**

This part of the list is endless. I honestly lost track of where I made applications to. Nevertheless, some outstanding places where I almost got recruited following interviews (in some instances) include the following:

- 2012 – 2013 Research Assistantship at The Presidential Initiative on Banana Industrial Development (PIBID); Got an MSc scholarship before I would be taken up officially and left.
  
- 2012 Biodiversity Officer, Total E& P Uganda Ltd. Got rejected after final interviews.
  
- 2012 Oil Exploration Scientist, Baker Hughes International; Never heard anything back.
  
- 2011 – 2012 Teaching Assistant at Makerere University, Department of Biochemistry and Sports Science; Got rejected when the University policy on Teaching Assistants changed.
  
- 2011 Graduate Level Tax Assistant, Price Water House Coopers (PwC) Audit Firm; Got rejected after final interviews.

### **Schools I was not admitted into**

- 2002 Kiira College Butiki; With 8 aggregates, I did not perform well enough in my PLE to their standards.
  
- 2002 Busoga College Mwiri; With 8 aggregates, I did not perform well enough in my PLE to their standards.

### **Games I failed to perfect and get interested in**

Football

### **Meta Failures**

Never mind, with time, I shall refine them into a presentable format...

### **Summary of both my Successes and Failures:**

NO words can describe how much I've learned from my experiences, Especially the failures...

## REFEREES

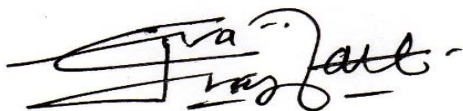
### a) Academic and Professional Referees:

1. Prof Paul Waako  
Vice Chancellor, Busitema University, 236 Tororo, Uganda  
Mobile: +256 772 468 458  
E-mail: [paulwaako@yahoo.com](mailto:paulwaako@yahoo.com)
2. Prof Julius N Wandabwa  
Dean, Faculty of Health Sciences, Busitema University, 1460 Mbale, Uganda  
Mobile: +256 785 723 462  
E-mail: [gjwandabwa@yahoo.com](mailto:gjwandabwa@yahoo.com)
3. Prof Fred Wamunyokoli  
Program Coordinator, Molecular Biology and Biotechnology, Pan African University  
Institute for Basic Sciences, Technology and Innovation.  
Professor, Department of Biochemistry, Jomo Kenyatta University of Agriculture and  
Technology, 62000-00200, Nairobi, Kenya  
Mobile: +254 721 801 065  
Email: [fwamunyokoli@gmail.com](mailto:fwamunyokoli@gmail.com)
4. Prof Esther NM Maina  
Department of Biochemistry, College of Health Sciences  
University of Nairobi, 30197-00100, Nairobi Kenya  
Mobile: +254 718 733 987  
Email: [njokimaina@uonbi.ac.ke](mailto:njokimaina@uonbi.ac.ke)

### b) Non-Academic Referee:

Arch. Nyanzi Abdul-Wahab, FRIBA, MUSA  
Principal Partner and Architect, JR Consults, Kampala, Uganda  
Mobile: +256 712 496 737  
Email: [awnyanzi@yahoo.com](mailto:awnyanzi@yahoo.com)

Signed under my hand and name.



**DR. GAVAMUKULYA Yahaya (Ph.D.)**