Curriculum vitae of

**CHRISTOPHER LARBIE**

**Department of Biochemistry and Biotechnology, KNUST, Ghana**

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DATE OF BIRTH; **11TH AUGUST, 1983**

MARITAL STATUS: **MARRIED**

NATIONALITY: **GHANAIAN**

**EDUCATION AND QUALIFICATION**

DEC. 2018 – MAY 2019 Fulbright Scholar

National Centre for Natural Products Research, University of Mississippi, MS 38677

MAY – JUNE 2014 Certificate Course

Cancer in the 21st Century: The Genomic revolution

Glasgow University, UK

SEPT. 2007 – NOV. 2012 Ph.D.

Department of Biochemistry and Biotechnology

Kwame Nkrumah University of Science and Technology (KNUST)-Kumasi, Ghana

SEPT. 2002 – MAY 2006 B.Sc. Hons. BIOCHEMISTRY-First Class Division Kwame Nkrumah University of Science and Technology (KNUST)-Kumasi, Ghana

**WORK EXPERIENCE**

AUG. 2022 Associate Professor of Biochemistry

Department of Biochemistry and Biotechnology, KNUST, Kumasi, Ghana

AUG. 2018 – DATE Senior Lecturer, Department of Biochemistry and Biotechnology, KNUST, Kumasi, Ghana

DEC. 2018 – MAY 2019 Visiting Scholar

National Centre for Natural Products Research, University of Mississippi, MS 38677

AUG. 2013 – JULY 2018 Lecturer, Department of Biochemistry and Biotechnology, KNUST, Kumasi, Ghana

Lectures in Metabolism in Health and Diseases, and Health Risk Toxicants; Plant Biochemistry and Medicine; and Analytical Biochemistry

Service Course in Biological Chemistry to School of Medical Science, Dentistry and Veterinary Medicine

Introductory Biochemistry to Department of Biomedical Engineering and Faculties of Agriculture and Renewable Natural Resources

JAN. 2012 Field Supervisor/IDI Facilitator

Research and Development Division/Ghana Health Service

“KAP Study to inform IEC messages and strategies for the roll out of new vaccines into the routine EPI in children in the Ga East and Nkoranza Districts of Ghana”

**POSITIONS AND AWARDS**

JAN 2024 Research Grant

Nestle Foundation

Project: Pearl millet beverage powder enriched with baobab pulp to improve iron and anaemia status of

adolescent girls in GhanaAmount: $ 18,558.00

DEC. 2018 Fulbright African Research Scholar

JAN. 2017 IUBMB Travel Grant

50th Miami Winter Symposium on Diabetes

Hyatt Regency Miami, Florida, USA

KNUST Research and Conference Travel Grant

50th Miami Winter Symposium on Diabetes

Hyatt Regency Miami, Florida, USA

KNUST Research Fund (KReF) Seed Fund

JAN. 2016 – DATE Member, Council of Convocation

KNUST-Kumasi

NOV. 2015 Travel Grant

CRDF-Global/AORTIC/NIH-NCI

Scientific Peer-Review Publication and Grant Writing Workshop

Marrakesh, Morocco

APRIL 2015 Member of Local Organizing Committee

Fourth one-day research seminar and poster presentation

Ghana Science Association / College of Science, KNUST – Kumasi

AUG. 2014 – JULY 2018 Undergraduate Course Coordinator

Department of Biochemistry and Biotechnology, KNUST-Kumasi

APRIL 2014 – DATE **Fellow**, Unity Hall, KNUST – Kumasi

MARCH – APRIL 2014 Member of Local Organizing Committee

Third one-day research seminar and poster presentation

Ghana Science Association / College of Science, KNUST – Kumasi

SEPT. 2013 – JULY 2017 Departmental Undergraduate Projects Coordinator

Department of Biochemistry and Biotechnology, KNUST – Kumasi.

JAN. – DEC. 2010 Student Small Grant Awardee

Trobenbos Ghana Programme

Kumasi, Ghana

SEPT. 2007 – AUG. 2010 KNUST PhD Scholarship (VC’s Initiative)

Department of Biochemistry and Biotechnology,

KNUST, Kumasi, Ghana

**RESEARCH INDICES Google Scholar**

(<https://scholar.google.com/citations?user=SQ_wLT0AAAAJ&hl=en>)

Citations 781

h-index 13

i10-index 19

**Research Gate** (<https://www.researchgate.net/profile/Christopher_Larbie>)

ORCID ID (0000-0003-4927-4419)

**CURRENT RESEARCH FOCUS**

1. Safety and efficacy of some ornamental plants in managing liver and kidney diseases: These studies involve plants including *Ficus pumilla*, *Acalypha wilkesiana* ‘inferno’ and *Duranta erecta*.
2. Safety and efficacy of some spices: Spices are known from time immemorial to be medicinal. These studies involve plants such as *Ocimum americana* (Akokomesa), and *Tetrapleura tetraptera* (Prekese). Other fruit species including *Dialium guineense* and *Chrysophyllum albidum* have been studied.
3. Isolation and Structural Elucidation of Natural Products: Studies on *Sarcocephalus latifolius* and *Acalypha wilkesiana* have focused on the isolation, structural elucidation, and activity studies on pure compounds, using advanced Mass Spectroscopy and Nuclear Magnetic Resonance techniques. These studies will be expanded to include all plants studied for various disease models. These were achieved through research training and further collaboration with Dr. Zulfiqua Ali of the National Centre for Natural Products Research, University of Mississippi USA.
4. Food formulations for special group use: Our studies involving formulation of foods with therapeutic effects for use (in collaboration with the Human Nutrition and Dietetics Group) among special groups and disease conditions have generated a pastry (biscuit) using weevil larvae and organ-fleshed sweet potato for managing anaemia and fatty acid deficiency in pregnancy. Further, *Borassus aethiopum* (Oman Kube) fruit pulp has been formulated into a therapeutic bread, with data from interventional studies for managing dyslipidaemia.
5. Hypertension and Metabolic Syndrome Research: Studies in this project have identified a high-risk group among adolescents in some Senior High Schools, and microvascular and macrovascular and organ-specific damage among adults living with the condition. Further studies have also contributed to the knowledge of risk factors for amputation among diabetes.

**PAST RESEARCH FOCUS**

1. Identification of Medicinal Plants on inhabited areas of KNUST (focus on ornamental plants in managing biochemical diseases involved in the metabolic syndrome)
2. Anticancer and antioxidant studies on *Ageratum conyzoides* L., *Ficus pumilla* L., *Amaranthus viridis* L., *Crotolaria retusa* L., *Acalypha inferno* and *Codieaum variegatum* L. (a collaborative study with Dr. (Mrs.) Regina Appiah-Opoong, Head of Chemical Pathology Department, NMIMR, Legon, Accra).
3. Pharmacological effect of underutilized Indigenous Ghanaian Vegetables (as part of the Human Nutrition and Dietetics Programme in the Department of Biochemistry and Biotechnology, KNUST)
4. Biochemical assessment of environmental toxicants in Human Population (focus on traditional dyeing industry)
5. Obesity, Metabolic syndrome and Related Diseases in General population

**JOURNAL PUBLICATIONS**

1. Abera, D. A., Larbie, C., Abugri, J., Ofosu, M., Mutocheluh, M., & Dongsogo, J. (2024). Prevalence and Predictors of Gestational Diabetes Mellitus in Sub-Saharan Africa: A 10-Year Systematic Review. Endocrinology, Diabetes & Metabolism, 7(3), e00478. <https://doi.org/10.1002/edm2.478>
2. Sarfo-Antwi, F., Larbie, C., Emikpe, B.O., & Appiah-Opong, R. (2024) Hydroethanolic extract and fractions of Pericopsis laxiflora stem bark protect against liver injury in Rat. Scientific Africa, 24, e02186. <https://doi.org/10.1016/j.sciaf.2024.e02186>.
3. Amegah W.K, Larbie C, Sedeafor, R. Sarfo-Antwi, F. (2024). Antidiabetic, Antioxidant Potential of *Detarium microcarpum* and *Zanthoxylum zanthoxyloides* and Combined Extract Efficacy in Rats. *Asian Journal of Biological Science* 17(1); 69-84.
4. Sedeafor, R., Larbie, C., Emikpe, B.O., Sarfo-AntwI, F. (2024). Safety and Hepatoprotective Assessments of Polyherbal Formulation in Lead and Acetaminophen-induced Hepatoxicity in Rats. *J Altern Complement Integr Med* 10: 438.
5. Nyarko, J.A., Larbie, C., Ossei, P.P.S., Sedeafor, R., Sarfo-AntwI, F. (2024) Nephroprotective Activity of *Dialium guineense* Aqueous Extract Against Cisplatin-Induced Kidney Damage in Rats. Microbiol Infect Dis, 8(1), 1-7.
6. Kusi, S., Larbie, C., and Sarfo-Antwi, F. (2023) Hepatoprotective Effects of *Tetrapleura tetraptera* (Schum. & Thonn.) Taub. Stem Bark Extracts in Drug-Induced Toxicities in Rats. *Current Research in Complementary & Alternative Medicine* 7(3). 201.
7. Faisal, S., Larbie, C., Ampem, A.K.A, Mensah, J., and Brobbey, A.A., (2023). Comparative Analyses of the Antimicrobial, Antioxidant, and Phytochemical Composition of Two Species of Moringa in Ghana. *European Journal of Medicinal Plants*, 34(9), 25.
8. Kuffour, O.B., Larbie, C., Genfi, A.K.A., Sedeafor, R., (2023). The Haematology and Serum Biochemistry of Traditional Textile Dyers in Ntonso, Kumasi were Affected by Exposure to Synthetic Textile Dyes. Journal of Applied Life Science International, 26(5), 66-73.
9. Ahenkorah, B., Sakyi, SA, Fondjo, LA, Helegbe, G, Owiredu, EW, Der, EM…… et al. (2023). Evaluating circulating soluble markers of endothelial dysfunction and risk factors associated with PE: A multicentre longitudinal case-control study in northern Ghana. *Heliyon* 2023 <https://doi.org/10.1016/j.heliyon.2023.e19096>
10. Akinrinde, A.S., Ajibade, T.O., Adetona, M.O., Oyagbemi, A.A., Adedapo, A.D.A. et al (2023) Glycine Exerts Renal Antioxidant Effects and Restores Hemodynamic Alterations in Rats Treated with Diclofenac Sodium: Roles of Renal Angiotensin Converting Enzyme, Angiotensin. *African Journal of Biomedical Research* 26 (2), 281-289 <https://www.ajol.info/index.php/ajbr/article/view/250961>
11. Ajibade, T.O., Akinrinde, A.S., Adetona, M.O., Adedapo, A.D.A., Oyagbemi, A.A. **Larbie, C.**, Omobowale, T.O., Ola-Davies, O.E., Saba, A.B., Adedapo, A.A., Oguntibeju, O.O., Yakubu, M.A. (2022). Luteolin Normalizes Blood Pressure Via Its Antioxidant Activity and Down-Regulation of Renal Angiotensin II Receptor and Mineralocorticoid Receptor Expressions in Rats Co-exposed to Diclofenac and Sodium Fluoride. *Nigerian Journal Physiological Science*, 37, 35 – 42. DOI: <https://doi.org/10.54548/njps.v37i1.5>
12. Opoku, R.S., Larbie, C., Lutterodt, H.E., Genfi, A.K.A., Dumfeh, E. & Danso, P., (2022). Extract of Fermented and Non-Fermented Seeds of *Parkia biglobosa* Attenuates Hyperglycaemia and Related Nephropathy in Type 2 Diabetes Mellitus Animals. *Food Science & Nutrition Research*, 5 (1), 1-10. DOI: 10.33425/2641-4295.1053
13. Asante, C.P., Sekyere, A. & **Larbie, C.** (2022). The Prevalence of Elevated Blood Pressure in Adolescence and Related Risk Factors in Some Selected Senior High Schools in the Ashanti Region. *International Journal of Child and Adolescent Health*, 15(1) (In production)
14. Donkor, S., **Larbie, C.,** Komlaga, G., Emikpe, B.O. (2022). Safety evaluation of hydroethanolic fruit extracts of Duranta erecta Linn. *GSC Biological and Pharmaceutical Sciences* 18 (2), 154–167. https://doi.org/10.30574/gscbps.2022.18.2.0067
15. Owojuyigbe, O. S., **Larbie**, **C**., Firempong, C.K., Komlaga, G., Emikpe, E.O., Oyagbemi, A.A. (2022). *Hura crepitans* stem bark extract: A potential remedy to sub-acute liver damage. *Journal of Ethnopharmacology*, 284, 114768, https://doi.org/10.1016/j.jep.2021.114768.
16. Sarfo-Antwi, F., **Larbie, C**., Emikpe, B. O., & Appiah–Opong, R. (2021). Ethnobotany, Phytochemistry and Pharmacology of *Pericopsis laxiflora* (Baker) Meeuwen (Leguminosae) – A Review. *International Journal of Biochemistry Research & Review*, 30(2), 1-7. https://doi.org/10.9734/ijbcrr/2021/v30i230248
17. **Larbie, C**., Mills-Robertson, F. C., Quaicoe, E. B., Opoku, R., Kabiri, N. C., & Abrokwah, R. O. (2020). *Tetrapleura tetraptera* of Ghanaian Origin: Phytochemistry, Antioxidant and Antimicrobial Activity of Extracts of Plant Parts. *Journal of Pharmaceutical Research International*, 32(35), 78-96. https://doi.org/10.9734/jpri/2020/v32i3530981
18. Donkor, S., **Larbie, C.**, Komlaga, G., and Emikpe, B.O. (2020). Evaluation of the Acute Hepatoprotective Potential of Hydroethanolic Extract of *Duranta erecta* L. Parts. *Journal of Toxicology*, 2020, Article ID 8815719, 10 pages. https://doi.org/10.1155/2020/8815719.
19. Owojuyigbe, O.S., **Larbie, C**., Firempong, C.K., Komlaga, G., Emikpe, B.O., and Otuechere, C.A. (2020). Extracts of *Hura crepitans* L. stem bark attenuate liver injury and inflammation induced by CCl4 in rats. *Comparative Clinical Pathology* 29(6): 1199–1208. https://doi.org/10.1007/s00580-020-03172-2
20. **Larbie, C.,** Nyarko, R.A., Oyagbemi, A.A., Jarikre, T.A., Adjei, C.O., Aseidu, E.B., & Emikpe, B.O. (2021). Biochemical and anti-inflammatory effect of *Ocimum americanum* Linn. extracts on gentamicin- and cisplatin-induced nephrotoxicity in rats. *Advances Traditional Medicine*, 21, 747–758. DOI: 10.1007/s13596-020-00501-2
21. **Larbie, C.,** Emikpe, B.O., Oyagbemi, A.A., Jarikre, T.A., & Adjei, C.O. (2020). *Acalypha wilkesiana* ‘Inferno’ Is Nephroprotective Against Gentamicin and Cisplatin: Biochemical, Histological and Immunochemical Evidence. *Iranian Journal of Toxicology*; 14 (4). URL: http://ijt.arakmu.ac.ir/article-1-821-en.html
22. Genfi, A.K.A., **Larbie, C.,** Emikpe, E.O., Oyagbemi, A.A., Firempong, C.K., & Adjei, C.O. (2020). Modulation of Oxidative stress and Inflammatory Cytokines as therapeutic mechanisms of *Ocimum americanum* L. extract in carbon tetrachloride and acetaminophen-induced toxicity in rats. *Journal of Evidence-Based Integrative Medicine*, 25: 1-13. DOI: 10.1177/2515690X20938002
23. **Larbie, C.,** Emikpe, B.O., Akpor, S.A. Adams, E., Adjei, C. O., Oyagbemi, A. A., & Jarikre, T. A. (2020). Ameliorative effect of extract of *Tecoma stans* (L.) Juss. ex kunth leaves against CCl4 - and acetaminophen—induced liver damage in rats. *Advances in Traditional Medicine* 20(4), 555-562. <https://doi.org/10.1007/s13596-020-00465-3>
24. **Larbie, C.**, Emikpe, B., Oyagbemi, A., Nyarko, R., Jarikre, T., Adjei, C., & Aseidu, E. (2020). *Acalypha wilkesiana* ‘inferno’ hydroethanolic leaf extract has protective effect on carbon tetrachloride-induced subacute toxicity in animals. *Biomedical Research and Therapy*, 7(5), 3778-3788. <https://doi.org/10.15419/bmrat.v7i5.605>
25. Donkor, S., **Larbie, C**., Komlaga, G., & Emikpe, B. O. (2020). Toxicity of the Hydroethanolic Leaves Extract of *Duranta erecta* L. in Rat Models. *Journal of Pharmaceutical Research International*, 32(6), 9-18. <https://doi.org/10.9734/jpri/2020/v32i630441>
26. Owojuyigbe, O. S., Firempong, C. K., Komlaga, G., **Larbie, C.,** & Emikpe, B. O. (2020). Phytochemical, Antioxidant and Safety Evaluation of *Hura crepitans* (L.) Stem Bark Hydroethanolic Extract in Animals. *European Journal of Medicinal Plants*, 31(8), 1-16. <https://doi.org/10.9734/ejmp/2020/v31i830255>
27. Ayensu, J., **Larbie, C**., Annan, R.A., Lutterodt, H., Edusei, A., Loh, S.P., & Asiamah, E.A. (2020). Palm Weevil Larvae (*Rhynchophorus phoenicis* Fabricius) and Orange-Fleshed Sweet Potato-Enriched Biscuits Improved Nutritional Status in Female Wistar Albino Rats. *Journal of Nutrition and Metabolism*, Volume 2020, Article ID 8061365, 8 pages. <https://doi.org/10.1155/2020/8061365>
28. Owojuyigbe, O. S., Firempong, C. K., **Larbie, C**., Komlaga, G., & Emikpe, B. O. (2020). Hepatoprotective Potential of *Hura crepitans* L.: A Review of Ethnomedical, Phytochemical and Pharmacological Studies*. Journal of Complementary and Alternative Medical Research,* 9(2), 1-10. <https://doi.org/10.9734/jocamr/2020/v9i230136>
29. Donkor, S., **Larbie, C.**, Komlaga, G., & Emikpe, B.O. (2019). Phytochemical, Antimicrobial, and Antioxidant Profiles of *Duranta erecta* L. Parts. *Biochemistry Research International*, 2019 (Article ID 8731595). 11 pages <https://doi.org/10.1155/2019/8731595>
30. Atule MT, **Larbie C**, & Afriyie C. (2019). Dietary Pattern and Prevalence of Metabolic Syndrome in Hypertensive Outpatients and Associated Effect on Target Organ Damage. *Journal of Clinical Nutrition and Dietetics*, 5(1): 1-9. DOI: 10.4172/2472-1921.100074
31. Ajiboye, A.T., Asekun, O.T., Familoni, O.B., Ali, Z., Wang, Y-H., Ghanadian, M., Zulfiqar, F., **Larbie**, C., Samuel, O.A., & Khan, I.A. (2019). Phytochemicals isolated from the root bark of *Sarcocephalus latifolius* (Sm.) E.A.Bruce. *Biochemical Systematics and Ecology*, 86, 103909. <https://doi.org/10.1016/j.bse.2019.05.017>.
32. Torkornoo, D., **Larbie, C.**, Agbenyegah, S., Dowuona, J.N.N., Appiah-Oppong, R., Dotse, E., Aning, A., Adu, B. & Sinclear, C. (2019). Valuation of the anti – proliferative effect, antioxidant and phytochemical constituents of *Ficus pumila* Linn. International *Journal of Pharmaceutical Sciences and Research*, 10 (5), 2605-2618. DOI: 10.13040/IJPSR.0975-8232.10(5).2605-18
33. **Larbie, C.**, Owusu Nyarkoh, C., & Owusu Adjei, C. (2019). Phytochemical and Safety Evaluation of Hydroethanolic Leaf Extract of *Tecoma stans* (L.) Juss. ex Kunth. *Evidence-Based Complementary and Alternative Medicine*, 2019, 1-12. <https://doi.org/10.1155/2019/7417624>
34. Nyarko, R.A., **Larbie, C.**, Anning, A.K., Baidoo, P.K., Emikpe, B.O., Oyagbemi, A.A., & Jarikee JA. (2019). *Griffonia simplicifolia* (DC.) Baill. attenuates gentamicin and cisplatin-induced nephrotoxicty in rats. *Comparative Clinical Pathology*, 2019, 1-12. <https://doi.org/10.1007/s00580-019-02934-x>
35. Dongsogo, J. & **Larbie, C**. (2019). Association of metabolic syndrome with the risk of developing liver disease in chronic hepatitis B patients. *African Journal of Biochemistry Research*, 13 (2), 23-29. DOI: 10.5897/AJBR2017.0956
36. Atosona, A, & **Larbie, C.** (2019). Prevalence and Determinants of Diabetic Foot Ulcers and Lower Extremity Amputations in Three Selected Tertiary Hospitals in Ghana. *Journal of Diabetes Research*, 2019, 1-9. <https://doi.org/10.1155/2019/7132861>
37. Nyarko, R.A., **Larbie, C.**, Anning, A.K., & Baidoo, P.K. (2019). Phytochemical Constituents, Antioxidant Activity and Toxicity Assessment of Hydroethanolic Leaf Extract of *Griffonia simplicifolia*. *International Journal of Phytopharmacology*, 10 (1), 6-8. DOI: [http://dx.doi.org/10.21276/ijp. 2019.10.1.2](http://dx.doi.org/10.21276/ijp.%202019.10.1.2)
38. Sarfo-Antwi, F., **Larbie, C.** and Babatunde, D. (2018). Extracts of Ageratum Conyzoides L. Protects against Carbon Tetrachloride – Induced Toxicity in Rats through Inhibiting Oxidative Stress. *Journal of Advances in Medical and Pharmaceutical Sciences* ,19 (2), 1-14. DOI: 10.9734/JAMPS/2018/ 45189
39. Ataanya, D.A. and Larbie, C. (2018). The Association between Micronutrients Levels and Gestational Diabetes: A Cross Sectional Study in Ashanti Region. *International Journal of Biochemistry Research & Review,* 24 (2), 1-8. DOI: 10.9734/IJBCRR/2018/45107
40. Sekyere, A., Larbie, C., Asante, C.P. and Asamoah-Boakye, O. (2018). Prevalence of Hypertension and Prognosis of Associated Dysfunction on Specific Organ Function among Ghanaian Adolescent Students. *International Journal of Biochemistry Research & Review,* 24 (1), 1-10. DOI: 10.9734/IJBCRR/2018/45034
41. Ayertey, E., Tandoh, M.A., Mills-Robertson, F.C., Kumah, D.B. and Larbie, C. and Aninkorah, N. P. (2018). Borassus aethiopum Fruit Pulp Extract has Antimicrobial Activity on Selected Clinical Microbial Strains. *Journal of Complementary and Alternative Medical Research*, 6 (3), 1-8. DOI: 10.9734/JOCAMR/2018/44495
42. Sackey, D.S., **Larbie, C**. and Mensah, F.O. (2018). Geophagia, nutrition and health of women with pregnancy-induced hypertension. *Afri Health Sci*.; 18(4): 1243-1254. <https://dx.doi.org/10.4314/ahs.v18i4.46>
43. Enoma, D.O. Larbie, C.E., Dzogbefia, V.P. and Obafemi, Y.D. (2018). Evaluation of the antioxidant activities of some wild edible indigenous Ghanaian mushrooms. *IOP Conference Series: Earth and Environmental Science,* 210 (1), 012010. DOI:10.1088/1755-1315/210/1/012010
44. Peprah, M., Apprey, C., Larbie, C. and Asamoah-Boakye, O. (2018). Phytochemical Constituents of Flour and Composite Bread from African Palmyra (Borassus aethiopum) Fruit from Ghana. European Journal of Medicinal Plants, 23 (1), 1-7. DOI : 10.9734/EJMP/2018/40502
45. Apprey, C., Annan, R.A. Arthur, F.K.N., Larbie, C. and Akoto, A.O. (2018). Nutritional intervention in children undergoing chemotherapy for cancer.Journal of Cancer and Tumor International, 7(4): 1-11.
46. Apprey, C., Annan, Reginald A., Fareed K. N. Arthur, Christopher Larbie and Alex O. Akoto. (2018). Nutritional Intervention in Children Undergoing Chemotherapy for Cancer. Journal of Cancer and Tumor International, 7(4): 1-11.
47. Larbie, C., Siaw, P.A., Zon, S. and Kwame Appiah-Kubi, K. (2018). Hydroethanolic Extracts of *Ficus pumila* Linn. is Protective against Gentamicin-Induced Kidney Damage in Rats. *JAMPS*, 17 (2); 1-8. DOI: 10.9734/JAMPS/2018/41291
48. Christopher Larbie, Juliana Oduro and Jesse John Tofah (2018). Aqueous ethanolic extract of *Acalypha inferno* accelerates the clearance of glucose in normoglyaecemic rats. *The Pharma Innovation*, 7(2), 79-83.

**CONFERENCES AND WORKSHOPS**

OCT 2021 Pericopsis laxiflora (Baker) Stem bark extract ameliorates acute Lead-induced hepatotoxicity: Modulation of Oxidative Stress and Inflammatory Pathways

Ghana Science Association (Virtual)

AUG. 2021 Hepatoprotective activity of Ocimum americanum extract L. in Carbon Tetrachloride and Acetaminophen-Induced Toxicity in Rats (Oral)

5th Annual SOMPED International Conference (Virtual)

APR. 2019 Ornamental plants as sources of medicine International Conference on the Science of Botanicals

Oxford Conference Center, Mississippi, USA

APR 2019 Hepatoprotective Properties of Aqueous and Ethanolic Stem Bark Extracts of Hura crepitans Linn. Against CCl4− Induced Acute Liver Damage in Rats (Poster)

Experimental Biology (Orange County Convention Center, Orlando, Florida, USA)

APR 2019 Methoxy-flavones Identified from *Ageratum conyzoides* Induce Caspase -3 and -7 Activations in Jurkat Cells (Poster)

Experimental Biology

Orange County Convention Center, Orlando, Florida, USA

JAN 2017 Sexual dysfunction, diabetic foot ulcers and lower limb amputation; prevalence, risk factors and predictors (poster)

Elsevier

Hyatt Regency Miami, Florida, USA

OCT 2016 Atomic Absorption Spectrophotometry Workshop

KNUST/BSU II, KNUST

Entrepreneurship, Creativity and Innovation for Staff of College of Science,

KNSUT, KNUST / BSU II

NOV 2015 Scientific Peer-Review Publication and Grant Writing Workshop

NCI/NHI, CRDF Global, OARTIC

Marrakesh, Morocco

SEPT. 2015 1st NMR Structure Elucidation Training Workshop

KNUST/Novartis/ Bruker KNUST

JULY 2015 8th Ghana Biomedical Convention

University of Ghana

29th – 31st July 2015

JULY 2014 7th Ghana Biomedical Convention

University of Cape Coast

30th July to 1st August 2014

FEBRUARY 2014 Participant, The HACCP and other food related safety issues

Ghana Street Food Project

KNUST and University of Copenhagen

SEPTEMBER 2013 5th International Toxicology Symposium in Africa

College of Science, KNUST, Kumasi, Ghana

AUGUST 2013 Participant and Communiqué Team Member

Third KNUST Summer School

Faculty of Law Auditorium, KNUST, Kumasi

JULY 2013 The 6th Ghana Biomedical Convention

University of Cape Coast, Ghana

JULY 2013 Fundamentals of Research Administration and Getting External Funds for Research

By the Office of Grants and Research, KNUST, Kumasi

JULY 2011 The Fourth Ghana Biomedical Convention

College of Science, KNUST, Kumasi, Ghana

Conference of the West African Society for Pharmacology

Department of Pharmacology, KNUST, Kumasi, Ghana

**PROFESSIONAL ASSOCIATIONS**

**Member**, American Society of Pharmacology and Experimental Therapeutics (ASPET; Membership number: 00055145; Division of Toxicology)

**(Since 2018)**

**Professional Member**, Society for Medicinal Plants and Economic Development (SOMPED) (Since 2018)

**Professional Member**, West African Society of Pharmacology (Since 2011)

**Member**, Society for Plant Medicine and Natural Product Research (GA) (Since 2012)

**Professional** **Member**, Ghana Biomedical Convention (Since 2013)

**Professional** **Member**, Ghana Science Association (Since 2013)

**Member**, University Teachers Association of Ghana (UTAG) (Since 2013)

**Professional Member**, Medical Scientist Society of Ghana (MSSG) (Since 2016)

**SUPERVISION OF STUDENT PROJECT WORK/THESIS/RESEARCH**

**Undergraduate**

**79 students supervised**

**Postgraduate Research Supervision**

Completed Postgraduate Research

PhD Biochemistry – 4

MPhil Biochemistry – 13

MPhil Human Nutrition and Dietetics – 14

MSc Human Nutrition – 2

Current Research Students PhD Biochemistry – 5

**SKILLS**

1. Design and use of animal models for drug studies
2. Ethnobotanical identification of medicinal plants
3. Extraction and fractionation of crude plant extracts
4. *In vitro* assay techniques for anticancer, antioxidant and antimicrobial assays
5. Good interpersonal skills and efficient in interview-based research
6. Proficient in the Writing and Speaking of English

**JOURNAL ASSOCIATE EDITOR OR REVIEWER**

2020 – DATE Member of Editorial Board

Journal of Medicinal Plants for Economic Development

SEPT 2021 External Examiner – PhD Thesis

University of Fort Hare

Title: Pharmacological investigation of Citrus limon L. Osbeck leaf extract and its efficacy as biofungicide against potato rot disease

OCT 2021 External Examiner – PhD Thesis

Cape Peninsula University of Technology

Title: Gold Nanoparticles of Cyclopia intermedia (Honeybush): An Insight into the Molecular Mechanism of its Anticancer Effect in Prostate Cancer

AUG 2021 External Examiner – MS Thesis

University of Limpopo

Title: Phytochemical analysis of *Momordica cardiospermoides* crude acetone and methanol leaf extracts and their effects on MDA-MB-231 cell migration and invasiveness

2018\*DATE Reviewer to the Following Journals

i. Heliyon (3)

ii. Jordan Journal of Biological Science

iii. Drug and Chemical Toxicology (2)

iv. Sn Applied Sciences

v. Indian Journal of Natural Products And Resources

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