

Curriculum vitae of  
**DR. CHRISTOPHER LARBIE**  
SENIOR LECTURER / FULBRIGHT SCHOLAR  
Department of Biochemistry and Biotechnology, KNUST, Ghana  
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DATE OF BIRTH; 11<sup>TH</sup> 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 21<sup>st</sup> 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. 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 Faculty of  
Agriculture

## **POSITIONS AND AWARDS**

DEC. 2018 – MAY 2019

Fulbright African Research Scholar

JAN. 2017

IUBMB Travel Grant  
50<sup>th</sup> Miami Winter Symposium on Diabetes  
Hyatt Regency Miami, Florida, USA

KNUST Research and Conference Travel Grant  
50<sup>th</sup> Miami Winter Symposium on Diabetes  
Hyatt Regency Miami, Florida, USA

KNUST Research Fund (KReF) Seed Fund

AUG. 2017 -DATE

MPhil/PhD Biochemistry and  
MSc/MPhil/PhD Biotechnology Programmes  
Coordinator

JAN. 2016 – DEC 2019

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

AUG. 2014 – JULY 2018

Undergraduate Course Coordinator  
Department of Biochemistry and  
Biotechnology, KNUST-Kumasi

SEPT. 2013 – JULY 2017

Departmental Undergraduate Projects  
Coordinator  
Department of Biochemistry and  
Biotechnology, KNUST – Kumasi.

## **RESEARCH INDICES**

**Google Scholar**

[https://scholar.google.com/citations?user=SQ\\_wLT0AAAAJ&hl=en](https://scholar.google.com/citations?user=SQ_wLT0AAAAJ&hl=en)

Citations 271

h-index 7  
i10-index 5

### Research Gate

([https://www.researchgate.net/profile/Christopher\\_Larbie](https://www.researchgate.net/profile/Christopher_Larbie))

RG Score 16.73

ORCID ID (0000-0003-4927-4419)

SCOPUS AUTHOR NO. 36548532900

### CURRENT RESEARCH FOCUS

1. Hepato- and nephroprotective effect of medicinal plants, spices and ornamentals (collaborative studies with Prof. Benjamin Emikpe and Dr. Ademola Oyegbemi, Faculty of Veterinary Medicine, University of Ibadan, Nigeria)
2. Anticancer and antioxidant studies on medicinal plants, spices and ornamentals (a collaborative study with Prof. (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 (RECENT)

1. 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>
2. 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>

3. Ayensu, J., **Larbie, C.**, Annan, R.A., Lutterodt, H., Edusei, A., Loh, S.P., and 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>
4. 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>
5. Donkor S, **Larbie C**, Komlaga G, and Emikpe BO. (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>
6. Atule MT, **Larbie C**, and Afriyie C. (2019). Dietary Pattern and Prevalence of Metabolic Syndrome in Hypertensive Outpatients and Associated Effect on Target Organ Damage. *J Clin Nutr Diet* 5(1): 1-9. DOI: 10.4172/2472-1921.100074
7. Abdulfatai T. Ajiboye, Olayinka T. Asekun, Oluwole B. FAMILONI, Zulfiqar Ali, Yan-Hong Wang, Mustafa Ghanadian, Fazila Zulfiqar, **Christopher Larbie**, Odewo A. Samuel, and Ikhlas A. Khan (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>.
8. Torkornoo D, **Larbie C**, Agbenyegah S, Dowuona JNN, Appiah-Oppong R, Dotse E, Aning A, Adu B. Sinclair 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
9. **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>
10. Nyarko RA, **Larbie C**, Anning AK, Baidoo PK, Emikpe BO, Oyagbemi AA, and Jarikée JA. (2019). *Griffonia simplicifolia* (DC.) Baill. attenuates gentamicin and cisplatin-induced nephrotoxicity in rats. *Comparative Clinical Pathology* 2019, 1-12. <https://doi.org/10.1007/s00580-019-02934-x>
11. Dongsogo, J and **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
12. Atosona A, and **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>

13. Nyarko RA, **Larbie C**, Anning AK, and Baidoo PK. (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>
14. 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
15. 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
16. 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
17. 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
18. 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>
19. 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
20. 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
21. 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.
22. **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
23. **Christopher Larbie**, Juliana Oduro and Jesse John Tofah (2018). Aqueous ethanolic extract of *Acalypha inferno* accelerates the clearance of glucose in normoglycaemic rats. *The Pharma Innovation*, 7(2), 79-83.

24. **Larbie, C.**, Nyarko, H.N., Tofah, J.J. and Torkornoo, D. (2018). Aqueous ethanolic extract of *Acalypha inferno* leaves is safe in animals. *Int J Pharm Scie Res.*, 9(6), 1000-1008. DOI: 10.13040/IJPSR.0975-8232.9(6).1000-08
25. **Larbie, C.**, Mills-Robertson, F.C., Dowuona, J.N.N., Tofah, J.J., Torkornoo, D. and Asare, C.Y. (2017). Phytochemical constituents and biological activity of fractions of stem and leaves of *Acalypha inferno*. *Journal of Pharmaceutical Research International*, 20 (8); 1-12. DOI: 10.9734/JPRI/2017/38675.
26. Acheampong, F., Reilly, R., **Larbie, C.**, Spencer, M., Gunderson, K., Appiah-Opong, R., Howson, C., Porier, J., Kellie, J., Jeliaskova, V., Voytek, S., Ginsburg-Moraff, C., Thibodeaux, S., Kublbeck J. and Austin, S. (2017). Methoxy-flavones identified from *Ageratum conyzoides* induce caspase -3 and -7 activations in Jurkat cells. *Journal of Medicinal Plants Research*, 11(38), 583-590, DOI: 10.5897/JMPR2017.6457
27. Ayensu, J., Edusie, A., Oduro, I. and **Larbie, C.** (2017). Status of some antioxidant micronutrients and pregnancy outcomes in Ghanaian adolescents attending antenatal clinic in urban (Suntreso) and rural (Mampong) hospitals. *EJNFS*; 7(2): 120-127. (DOI: 10.9734/EJNFS/2017/24209)
28. Inkabi, S.E. and **Larbie, C.** (2017). A review of some botanicals used in the management of reproductive disorders. *IJPPR*; 9(1): 1-9.

#### Articles in Press

1. Larbie, C., Emikpe, B.O., Oyagbemi, A.A., Nyarko, R.A., Jarikre, T.A., Adjei, C.O. and Aseidu, E.B. *Acalypha wilkesiana* 'Inferno' hydroethanolic leaves extract has protective effect on CCl<sub>4</sub>-induced subacute toxicity in animals. *Biomedical Research and Therapy*, 2020. (BMRAT-2020-02-011)

#### Articles under Revision

1. Genfi, A.K.A., Larbie, C., Emikpe, E.O., Oyagbemi, A.A., Firempong, C.K., Adjei, C.O. 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* (JE IM-2020-03-0012.R1)

#### Articles under Review

1. Ameliorative effect of extract of *Tecoma stans* (L.) Juss. Ex Kunth leaves against CCl<sub>4</sub> - and acetaminophen - induced liver damage in rats. *Advances in Traditional Medicine (formally OPEM)* (OPEM-D-19-00088)
2. Extract of *Acalypha wilkesiana* Mull Arg 'Inferno' is nephroprotective in gentamicin and cisplatin-induced kidney damage by inhibition of oxidative stress and inflammation. *Iranian Journal of Toxicology* (A-10-658-1)



- 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/NHL, CRDF Global, OARTIC  
Marrakesh, Morocco
- SEPT. 2015 1st NMR Structure Elucidation Training  
Workshop  
KNUST/Novartis/ Bruker KNUST

#### PROFESSIONAL ASSOCIATIONS

- Professional Member**, American Society for  
Pharmacology and Experimental Therapeutics  
(55145)
- Professional Member**, Society for Medicinal  
Plants and Economic Development (SOMPED)
- 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)

#### 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

## REFERENCES

PROF. F. K. N. ARTHUR

Associate Professor and Mentor  
Department of Biochemistry and  
Biotechnology,  
KNUST, Kumasi, Ghana  
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E-mail; [fareedarthur@yahoo.com](mailto:fareedarthur@yahoo.com)

PROF. (MRS.) I.N. ODURO

Professor /Past Provost, College of Science  
Department of Food Science and Technology,  
KNUST, Kumasi, Ghana  
Tel.; +233-24-428 8315  
E-mail; [iquomma@yahoo.co.uk](mailto:iquomma@yahoo.co.uk)

PROF. BENJAMIN O. EMIKPE

Professor and Mentor  
Dean, School of Veterinary Medicine, KNUST,  
Kumasi  
Past Chair, Department of Veterinary  
Pathology, University of Ibadan, Ibadan,  
Nigeria  
Email: [banabis2001@yahoo.com](mailto:banabis2001@yahoo.com)  
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