

CURRICULUM VITAE

Department of Pharmaceutical Chemistry, Faculty of Pharmacy and Pharmaceutical Sciences
College of Health Sciences, Kwame Nkrumah University of Science and Technology,
Kumasi-Ghana

jnaddotey.pharm@knust.edu.gh/addonij@gmail.com

+233-269267957

JOHN NII ADOTEY ADDOTEY *B.Pharm., M.Phil., Dr. rer. nat.*

PERSONAL BRIEF

Date of birth: 29th September, 1983.

Place of birth: Accra

Civil status: Married

Sex: Male

Nationality: Ghanaian

EDUCATION

Date	Degree/certificate	Institution
2015 - 2019	Doctor of Pharm. Sciences (Dr. rer. nat.) Dissertation: Human hyaluronidase-1 inhibitors from the roots of <i>Ononis spinosa</i> L. and leaves of <i>Phyllanthus muellerianus</i> Kuntze Excell	Westphalian Wilhem's University, Muenster, Germany.
2007 - 2010	M. Phil (Pharm. Chemistry) Thesis: Pilot Production of 5-HTP from the leaves of <i>Griffonia simplicifolia</i>	Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
2001 - 2005	B. Pharm (Pharmacy) Thesis: A Study on the Quality of 4 Brands of Hydrogen Peroxide in the Kumasi Metropolis.	Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
1997 - 1999	Senior Secondary School Certificate Examination	Presby. Boys' Secondary School, Legon, Accra.

TEACHING AND RESEARCH EXPERIENCE

Academic Ranks held

Period	Position	Institution
2020 – to date	Senior Lecturer	Department of Pharmaceutical Chemistry, KNUST, Kumasi
2014 – 2020	Lecturer	Department of Pharmaceutical Chemistry, KNUST, Kumasi
2012 – 2014	Assistant Lecturer	Department of Pharmaceutical Chemistry, KNUST, Kumasi
	Part-time Lecturer	University of Ghana School of Pharmacy, Legon
2007 – 2010	Demonstrator	Department of Pharmaceutical Chemistry, KNUST, Kumasi
2005 – 2006	National Service Personnel	Department of Pharmaceutical Chemistry, KNUST, Kumasi

Courses currently taught

Degree and Year	Course
Undergraduate level	
Pharm D II	Organic Pharmaceutical Chemistry II
Pharm D IV	Medicinal Chemistry II
Herbal Medicine I	Basic Pharmaceutical Chemistry Theory and laboratory
Human Biology I/ Veterinary Medicine I/ Dental Surgery I / Physician Assistantship I	Basic Medical Chemistry
Postgraduate Level	
M.Phil. (Pharmaceutical Chemistry)	Drug Analysis Laboratory I and II

Supervision of Postgraduate research

Degree	Title of Thesis
M.Phil.	Identification of biomarker(s) and HPLC method development for quality control of the stem bark of <i>Anthocleista nobilis</i>
M.Phil.	Phenolic profile, antioxidant and antidiabetic properties of Ghanaian propolis.
M.Phil.	Click synthesis of 1,2,3-triazoles and a tethered phosphonium salt with potential antimalarial activity.
Ph.D.	Anti-inflammatory activity of secondary metabolites from plant extracts used in Herbal Medicine Products in Ghana.

Conferences and Training Workshops

July, 2019	Continuing Professional Development Programme for Pharmacists. Health Professions Regulatory Bodies Act 2013 & Pharmacy Practice Regulation. KNUST, Kumasi.
July, 2019	AREF/KCCR Workshop on Tools for Effective Research Communication. KNUST, Kumasi.
June, 2019	Continuing Professional Development Programme for Pharmacists. Cancer: Awareness, Detection, Screening Services and Care. KNUST, Kumasi.
March, 2019	5 th Young Researcher Meeting. Muenster, Germany
August, 2018	66 th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) Shanghai, China.
July, 2018	European Professional Development Doctoral Summer School, Muenster, Germany.
April, 2018	International Conference on Pharmacognosy and Medicinal Plants. Hyatt Place hotel, Amsterdam, Holland.
September, 2017	German Society of Phytotherapy Congress, University of Muenster, Germany.
September, 2013	Participated in the Training of Quality Control Personnel on Good Laboratory Practices and Acquisition of Safety, Productivity, Accuracy, Credibility and Education- "SPACE". Bobo-Dioulasso, Burkina Faso.
August, 2013	Participated in the 2013 Continuous Professional Development (CPD) on "Hypertension" organized by the Pharmaceutical Society of Ghana (PSGh), KNUST-Kumasi.

August, 2013	Training on “Supply Chain Logistics for Commodity Security Course” provided by the USAID/DELIVER PROJECT, John Snow, Inc, Takoradi-Ghana.
May, 2013	Participated in the 2013 Continuing Education Programme for Pharmacists organised by the Pharmacy Council in collaboration with Ghana Health Service (GHS), Kumasi.
January, 2013	Participated in Workshop on “Process of Graduate Supervision” organized by the Faculty of Pharmacy and Pharmaceutical Sciences, Kumasi.
September, 2012	Participated in the 2012 Continuing Education Programme for Pharmacists on “Malaria” organized by the Pharmacy Council in collaboration with the Pharmaceutical Society of Ghana (PSGh), SHOPS and the Ghana Health Service (GHS).
August, 2012	Participated in the 2 nd KNUST Summer School for Staff on “Raising the Standards for the 21 st Century University Education”, organised by the QAPU, KNUST.
June, 2012	Participated in the Training on the uses of the WAHO Guidelines for the Preparation of Quality Manuals, Records Manuals and Standard Operating Procedures (SOPs) for Quality Control Laboratories in ECOWAS Region, Ougadougou, Burkina Faso.

Honours, Awards and Fellowships

- DAAD/Government of Ghana Scholarship for Doctoral Studies in Germany, 2015.
- Best Presenter, Young Researchers’ Forum, Pharmacognosy Conference, Amsterdam, 2018.

Grants Won

Date	Funding Agency	Position
08/2018	Society for Medicinal Plant and Natural Product Research (GA)	Sponsored participant and oral presenter
02/2015	DAAD/Government of Ghana	PhD Candidate

SERVICE

Date	Role
2020	Member, Continuing Professional Development Committee, Faculty of Pharmacy and Pharmaceutical Sciences, KNUST
2019	Reviewer, African Scientific Journal.
2019	Member, Committee to rectify the Pharm D accreditation deficiencies identified by the accreditation team
2019	Coordinator, Postgraduate Curriculum Review, Department of Pharmaceutical Chemistry, KNUST.
2019	Assistant Coordinator, Industrial Liaison, Department of Pharmaceutical Chemistry, KNUST.
2019	Coordinator, Publications and Electronic Abstracts, Department of Pharmaceutical Chemistry, KNUST.
2019	Reviewer, Draft Post-Doctoral Fellowship Policy for KNUST
2016 - 2018	Teaching Assistant, Pharmaceutical Biology 3, Institute for Pharmaceutical Biology and Phytochemistry, University of Muenster, Germany
2013	Trainer, International workshop on “Qualification and Validation for Analytical Test Laboratories” by Action Medeor/Department of Pharmaceutical Chemistry, Kumasi
2013 - 2014	Academic Tutor and Academic Supervisor for Bachelor of Pharmacy students
2013	Member, Committee to update documents on the Herbal Medicine programme for accreditation
2012	Member, Peer review of Guidelines and Training Manuals for Quality Control Laboratories in ECOWAS Region
2012	Member, Library Committee of the Faculty of Pharmacy
2012	Drug Analysis Coordinator, Department of Pharmaceutical Chemistry

PUBLICATIONS

Journal Publications

Spiegler, V., Gierlikowska, B., Saenger, T., **Addotey, J. N.**, Sendker, J., Jose, J., Kiss A.K. & Hensel, A. (2020). Root Extracts From *Ononis spinosa* Inhibit IL-8 Release via Interactions With Toll-Like Receptor 4 and Lipopolysaccharide. *Frontiers in Pharmacology*, 11, 889.

Addotey, J. N., Lengers, I., Jose, J., & Hensel, A. (2019). Hyal-1 inhibitors from the leaves of *Phyllanthus muellerianus* (Kuntze) Excell. Journal of Ethnopharmacology. 236, 326-33

Addotey, J. N., Lengers, I., Jose, J., Gampe, N., Béni, S., Petereit, F., & Hensel, A. (2018). Isoflavonoids with inhibiting effects on human hyaluronidase-1 and norneolignan clitorienolactone B from *Ononis spinosa* L. root extract. Fitoterapia. 130, 169-174.

Nyansa, M. M. S., Fiawoyife, P. D., Mireku-Gyimah N. A., **Addotey, J. N. A.** (2017). Stability-Indicating HPLC Method for the Simultaneous Determination of Paracetamol and Tramadol Hydrochloride in Fixed-Dose Combination Tablets. International Journal of Biomedical Science and Engineering. 5 (4), 41-47.

Addotey J. N. A. & Adosraku R. K. (2016). Pilot Production of 5-HTP from the Seeds of *Griffonia simplicifolia*. World Journal of Pharmacy and Pharmaceutical Science. 5(6), 204-221.

Cudjoe E.K., **Addotey J. N. A.**, Okine N.N.A., Adosraku R.K., Annan K. (2016) Isolation and development of an HPLC method for the quantification of a biomarker in the roots of *Paullinia pinnata*. International Journal of Pharmaceutical Science Research. 7(8), 3446-52.

Addotey J. N. A. & Nyansah M. M. S. (2016) Quality Assessment of some Topical Polyherbal Preparations on the Ghanaian Market. World Journal of Pharmacy and Pharmaceutical Science. 5(4), 461-472.

Addotey, J. N., & Amoo I. (2016) The Use of Flavonoids as a marker for standardization of *Lonchocarpus sericeus*. World Journal of Pharmacy and Pharmaceutical Science. 5 (4), 55-74.

Addotey J. N. A., Yeboah-Awudzi L., Adosraku R. K. (2014). Stability Studies on Reconstituted Amoxicillin-Clavulanic Acid Oral Powder by HPLC Method Development and Quantification. International Journal of Pharmaceutical Science and Practice. 3(1), 1-12.

Koffuor G. A., Ainoonson G. K., Amponsah K. I., **Addotey J. N.,** Asiamah E. A., Akuffo S. K., Adutwum K., Bandoh R. F. (2013) The Antiulcerant Activity of an Aqueous Fruit Extract of *Musa paradisiaca* on Acetic Acid-Induced Gastric Ulceration in ICR Mice. Journal of Medical and Biomedical Science. 2(2), 30-39.

Koffuor G. A., Ainoonson G. K., **Addotey J. A.,** Amponsah I. K., Afriyie V. A., Tutu R. (2013) Preliminary pharmacological investigation of the ischuretic property and safety of a hydro-ethanolic extract of *Amaranthus spinosis* (Fam: Amaranthaceae). International Journal of Basic Clinical Pharmacology. 2, 517-27.

Conference Papers

Spiegler V., Michalak B., **Addotey J.**, Saenger T., Jose J., Kiss A., Hensel A. (2019) Extracts from the roots of *Ononis spinosa* L. exert anti-inflammatory activity under *in vitro* conditions on IL-8 and TNF- α release by inhibition of TLR-4 receptor. 67th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) Innsbruck, Austria. September, 2019.

Addotey J. N., Lengers I., Jose J., Gampe N., Béni S., Petereit F., Hensel A. Roots of diuretic plant *Ononis spinosa* L. contain Hyal-1 Inhibitors. (2018) “5th Münster Conference on Biomolecule Analysis” Muenster, Germany.

Addotey J. N., Lengers I., Jose J., Gampe N., Béni S., Petereit F., Hensel A. Hyal-1 Inhibitors from roots of *Ononis spinosa* L. 66th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) Shanghai, China. August, 2018. **Oral presentation.**

Addotey J., Lechtenberg M., Petereit F., Lengers I., Jose J., Hensel A. Preliminary Structure-Activity Studies on Hyal-1 Inhibitors. International Conference on Pharmacognosy and Medicinal Plants. Hyatt Place hotel, Amsterdam, Holland. April 2018. **Oral Presentation.**

Addotey J., Lechtenberg M., Petereit F., Lengers I., Jose J., Hensel A. Natural products as inhibitors of human hyaluronidase-1. German Society of Phytotherapy Congress, University of Muenster, Germany. September, 2017.

Posters

Addotey, J. N., Lengers, I., Jose, J., & Hensel, A. Leaves of *Phyllanthus muellerianus* Kuntze Excell contain inhibitors of Human Hyal-1. (2019) 5th Young Researcher Meeting, Muenster, Germany.

Addotey J. N., Lengers I., Jose J., Gampe N., Béni S., Petereit F., Hensel A. Roots of diuretic plant *Ononis spinosa* L. contain Hyal-1 Inhibitors. (2018) “5th Münster Conference on Biomolecule Analysis” Muenster, Germany.

Addotey J., Lechtenberg M., Petereit F., Lengers I., Jose J., Hensel A. Natural products as inhibitors of human hyaluronidase-1. (2017) German Society of Phytotherapy Congress, University of Muenster, Germany.

PROFESSIONAL AFFILIATIONS

- West African Network of Natural Products Research Scientists (WANNPRES), 2018 to date
- Member, Society for Medicinal Plants and Natural Products Research (GA), 2016 to date
- Member, University Teachers' Association of Ghana (UTAG), 2012 to date

- Member, Academia, Social and Research Pharmacists' Association of Ghana (ASRPA), 2010 to date
- Member, Pharmaceutical Society of Ghana, 2007 to date

RESEARCH INTERESTS

- Bioactivity guided isolation and characterization of compounds from natural sources.
- Method development for the analysis of natural products and drug substances.
- Use of molecular modelling in Structure- Activity Relationship (SAR) and quantitative SAR (QSAR) studies of drug molecules.

RELEVANT SKILLS

Analytical Instruments

DAD-(U)HPLC-MS, GC-MS, Column and thin layer chromatography (silica gel, Sephadex®). Interpretation of NMR data including 2D-NMR for structure elucidation.

Computer software

Graphpad Prism 7; Buker Compass Data Analysis 4.1; Chemdraw 14; MestReNova, Molecular Operating Environment (MOE) 2015.10; 3D-QSAR.

Languages

English (competent); German (Independent user)

REFERENCES

- Prof. Samuel Asare-Nkansah, Head, Department of Pharmaceutical Chemistry, Faculty of Pharmacy and Pharmaceutical Sciences, College of Health Sciences, KNUST. Email: asn12002@yahoo.com. Tel: +233501571837
- Prof. Christian Agyare, Provost, College of Health Sciences, KNUST. email: chrisagyare@yahoo.com. Tel: +233246369803
- Prof. Berko Panyin Anto. Dean, Faculty of Pharmacy and Pharmaceutical Sciences, College of Health Sciences, KNUST. Email: berkopanyin@hotmail.com. Tel: +233205410277