



Degrees

PhD, Biological Science (Ecotoxicity of Cyanobacteria), University of Hull, United Kingdom

Post-Graduate Certificate in Research Methods, University of Hull, United Kingdom

Post-Graduate Certificate in Limnology, Austria

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

BSc, Natural Resources Management (Watershed Management and Fisheries Option), University of Hull

Awards and Recognition

Presidential Citation (Ghana) for PhD Research Work – 2005

Research Interests

Seaweeds and Cyanotoxins

Profile

Limnologist- Environmental Biology and Health Division

CSIR – Water Research Institute

Dr Gloria Naa Dzama Addico is a Senior Research Scientist of the Hydrobotany Unit of the Environmental Biology and Health Division of the CSIR- Water Research Institute. She obtained her Bachelor of Science Degree in Natural Resources Management (Watershed Management and Fisheries Option) and Master of Philosophy Degree in Biological Science both at the Kwame Nkrumah University of Science and Technology, Kumasi, Ghana in 1989 and 2000 respectively.

She then continued to pursue her Doctoral studies at the University of Hull, Hull, United Kingdom at the Department of Biology, Ecotoxicology Laboratory which she completed in 2008. She was assigned the position of a Visiting Scientist from 2008-2010 and later became a Visiting Academic at The Robert Gordon University, Aberdeen, Scotland, United Kingdom for six months from April to September, 2011.

Dr Addico was awarded a Ghana National Citation for her pioneering research work in Cyanotoxins as part of her PhD. Her research interests are currently focused on developing rapid diagnostics determination of cyanotoxins and seaweed cultivation technologies and bio-products.

Current Research

Drinking Water Production and Cyanotoxin
Identification and Characterization of Cyanotoxin
Seaweed Toxicology and Nutritional Characterization
Cultivation of Seaweed

Recent Publications

Books

Ntiamoah-Baidu, Y., Amposah, B.Y. and Ofosu, E.A. (eds). Dams, Development and Downstream Communities: Implications for Re-optimizing the Operations of the Akosombo and Kpong Dams in Ghana. Digibooks Gh. Ltd., Tema, Ghana, pp 97-116.
Addico G.N.D (2013). Toxic Cyanobacteria, cyanotoxins and drinking water production in Ghana. Book (inprint) ISBN No: 978-3-639-51642-5. Scholars' Press Publishing, Saarbrücken, Germany.

Journals

Gloria Naa Dzama Addico^{1*}, Jorg D. Hardege,² Ji?i Kohoutek,³ K.A.A. deGraft-Johnson,¹ Pavel Babica^{3,4} (2017). Cyanobacteria and microcystin contamination in untreated and treated drinking water in Ghana. *Advances in Oceanography and Limnology*, 2017; 8(1): 92-106 A
Amu-Mmensah, M.A., Amu Mensah, F.A., Akrong, M.A., Humphrey, Addico, G. D. (2017). Significance of Lake Bosumtwé as a freshwater Resource in Ghana: Communities Perception. *International Journal of Development and Sustainability*, 6 (10): 1305-1318.
Addico G.N.D, Lawton L, Edwards C. Hepatotoxic-microcystins in two Drinking Water Reservoirs in the Central Region of Ghana (2017). *Toxicol Forensic Med Open J.* 2(1): 1-11. doi: 10.17140/TFMOJ-2-11.

Marcel Tutor Ale 1,^{*}, Kristian Barrett 1, Gloria Naa Dzama Addico 2, Nanna Rhein-Knudsen 1, Amoako Atta deGraft-Johnson 2 and Anne S. Meyer 1 (2016). DNA-Based Identification and Chemical Characteristics of *Hypnea musciformis* from Coastal Sites in Ghana. *Diversity*, 8, 1 -1.
Gloria Naa Dzama Addico^{*} and Kweku Amoako Atta deGraft-Johnson (2016). Preliminary Investigation into the Chemical Composition of the Invasive Brown Seaweed *Sargassum* along the West Coast of Ghana. *African Journal of Biotechnology*, 15 (39), 2184-2191.

Addico, N.D.G., Hardege, J.D., Babica, P., Kohoutek, J., deGraft-Johnson, K.A.A. (2010). Microcystin-RR like toxin identified in the cyanobacterium *Anabaena flos-aquae* strain CCAP 1403/13B culture. *West African Journal of Applied Ecology*, 19, 9-16.

Addico, N.D.G., Hardege, J.D., Babica, P., Kohoutek, J., deGraft-Johnson, K.A.A. (2010). Levels of demethylated microcystin-RR ([D-Asp³] MCYST-RR) and five other putative microcystins identified in a culture of *Planktothrix* sp. strain CCAP 1460/13. *West African Journal of Applied Ecology*, 17, 37-53.

Addico, G., Hardege, J.D., Komarek, J., deGraft-Johnson, K.A.A (2009). Cyanobacterial diversity and biomass in relation to nutrient regime of four freshwater reservoirs sourced for the production of drinking water in Ghana. *Algological Studies*, Stuttgart, Germany, 130, 101-127.