

CURRICULUM VITAE
(As from January, 2018)

Name: Dr. Vuzi Peter California

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College of Natural Sciences
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DOB: 15th April 1964

Nationality: Ugandan

Marital Status: Married

Academic Qualifications:

2008: PhD (Biochemistry), Makerere University Kampala

1997: Master of Science (Biochemistry), Makerere University Kampala.

1992: Bachelor of Science (Biochem/Zoology) Makerere University Kampala.

Current Position and Responsibilities:

Senior Lecturer Biochemistry: Teaching, Supervision and Research.

Head Department of Biochemistry & Sports Science, College of Natural Sciences Makerere University.

Coordinator for Graduate Programmes in the Department. Course Leader Advanced

Immunology/Immunochemistry. Member of several Departmental, School and College Standing Committees.

Part-time Lecturership:

Graduate School Bugema University Master of Public Health Programme, MUST Bachelor of Nursing Completion Programme, Health Tutor's College Mulago, Bachelor of Medical Education Programme.

Supervision Record:

Supervised several Bachelors' finalist research projects, Graduate Master's and Doctoral Students).

Member of four Doctoral committees.

Graduate Supervision

- (i) Dr. Saphan Muzoora, Masters of Science in Biochemistry CONAS, Mak (Completed)
- (i) Mr. Vincent Kyaligonza Master of Science in Biochemistry CONAS (Completed)
- (ii) Mr. Mukisa K. Ambrose Master of science in Biochemistry CONAS, Mak (Completed)
- (iii) Mr. Wembabazi Enock MSc. in Biochemistry CONAS, Mak (Completed).
- (iv) Mr. Wacoo Alex MSc. in Biochemistry CONAS, Mak (Completed)
- (v) Mr. Agwaya Moses MSc.in Biochemistry CONAS, Mak (Submitted thesis)
- (vi) Mr. Chandiga Bondo Master of Public Health Bugema University (Completed)
- (vii) Ms. Diana Nambooze Master of Public Health Bugema University (Completed)
- (viii) Ms. Hannart Nalweyiso Master of Public Health Bugema University (Completed)
- (ix) Mr. Richard Ogwang Master of Public Health Bugema University (Completed)
- (x) Mr. Bwaligonza Solomon Master of Public Health Bugema University (Completed)

- (xi) Mr. Rwamurangwa Emmy Master of Public Health Bugema University (Completed)
- (i) Ms.Christine Nabbengo MSc. in Biochemistry CONAS, Mak (Completed)
- (ii) Ms Sharon Acheng MSc in Biochemistry CONAS, Mak (Ongoing)
- (iii) Dr. Muzoora Saphan PhD Biochemistry Mak (Ongoing)
- (iv) Mr. Ambroze Mukisa PhD Biochemistry Mak (Ongoing)
- (v) Rev. Murokore Justus Biryamumaisho PhD Biochemistry Mak (Ongoing)

Doctoral Committee

- (i) Dr. Akalla Hosea, PhD in Zoology 2014 "Antimalarial Activities of Some Plant Extracts and Natural Products".(Completed)
- (ii) Dr. Gwali Samson PhD in Agroforestry 2014 "Phenotypic, chemical and molecular characterization of shea tree (*Vitellaria paradoxa* subspecies *nilotica*) ethno-varieties in Uganda". (Completed)
- (iii) Mr. Ambrose Mukisa PhD Biochemistry Mak (Ongoing)
- (iv) Mr. Robert Gumisiriza PhD Biochemistry Mak (Ongoing)

External Examiner/Visiting Lectureship

- (i) 2008 - 2009: Visiting Lecturer Juba University, Faculty of Medicine, Juba South Sudan
- (ii) 2012 - 2014: External Examiner Biochemistry in Department of Applied Chemistry
Kigali Institute of Technology, Kigali Rwanda.
- (iii) 2012 - 2014: Visiting Lecturer Graduate Analytical Chemistry program Department of
Biochemistry Faculty of Medicine University of Zambia, Lusaka.
- (iv) 2014 -2017: External Examiner Biochemistry in Faculty of Medicine Mbarara University of
Science and Technology
- (v) 2017-2020: External Examiner Biochemistry KIU Medical School Busenyi campus,
Busenyi.

Reviewer of Journal Articles

- (i) African Journal of Food Sciences: Manuscript title: "Phenolic content and antioxidant activity of Selected Ugandan Traditional Medicinal Foods".

Graduate Thesis and Dissertations Examined

- (i) Mr. WAMUTU Samuel: Oxidative stress in experimentally induced liver cirrhosis and protective roles of anti-oxidant vitamins in rats (PhD Biochemistry 2018).
- (ii) Mr. MAYEKU Philip Wafula (2007/HD13/4900K): Isolation and Characterization of Anti-bacterial, Anti-proliferative and cytotoxic constituents of *Maytenus Putterlickiodes*, *Veronica Glabra* and *Thalictrum Rhyncocarpum*. PhD Chemistry 2016).
- (iii) Mr. OYET Ceaser: (Reg. No. 2012/HD/006): Prevalence of Glucose-6-phosphate Dehydrogenase Deficiency in South western Uganda: Implications on primaquine use. (MSc. Medical Laboratory Science MUST 2015).
- (iv) Ms. NAMUKOBE Jane: Phytochemical and anti-plasmodial studies of *Neoboutonia macrocalyx* L. (Ph.D Chemistry 2014).

- (v) Ms. GANZA Barbara: Isolation and characterization of bioactive compounds from stem bark of *Albizia coriaria* (MSc Chemistry 2014).

Research publications:

(i) Ambrose Mukisaa*, Claire Aguttu, George W. Lubegac, Joseph Kyambadedd, Vincent Pius Alibue, Peter C. Vuzi (2018). Anti-Parafagellar Rodc Antibodies Inhibit the In-Vitro Growth of *Trypanosoma Brucei Brucei*. American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS) (2018) Volume 40, No 1, pp 186-197.

(ii) Saphan Muzoora, Margaret Loy Khaitisa, Hartford Bailey, Peter Vuzi (2017). Status on aflatoxin levels in groundnuts in Uganda. Pan African Medical Journal Volume 28, Sept –Dec 2017.

(ii) Alex Paul Wacoo, Mathew Ocheng, Deborah Wendiro, Peter California Vuzi, and Joseph F. Hawumba (2016). Development and Characterization of an Electroless Plated Silver/Cysteine Sensor Platform for the Electrochemical Determination of Aflatoxin B1 Journal of Sensors Volume 2016, Article ID 3053019, 8 pages <http://dx.doi.org/10.1155/2016/3053019>

(ii) Moses Solomon Agwaya, Peter California Vuzi, and Agnes Masawi Nandutu (2016). Hypoglycemic Activity of Aqueous Root Bark Extract *Zanthoxylum chalybeum* in Alloxan-Induced Diabetic Rats

(iii) Agwaya, M. S. Nandutu A. M. and Vuzi P. C. (2016). Protective Effects of *Zanthoxylum chalybeum* in Diabetes-induced Myocardial Dysfunction in Rats European Journal of Medicinal Plants 12(1): XX-XX, 2016, Article no.EJMP.22137 ISSN: 2231-0894, NLM

(iv) Moses Solomon Agwaya, Peter California Vuzi, and Agnes Masawi Nandutu (2016). Hypoglycemic Activity of Aqueous Root Bark Extract *Zanthoxylum chalybeum* in Alloxan-Induced Diabetic Rats. Journal of Diabetes Research Volume 2016, Article ID 8727590, 5 pages <http://dx.doi.org/10.1155/2016/8727590>

(v) Mathew Ocheng, Alex Wacoo, Deborah Wendiro, Peter California Vuzi, and Joseph F. Hawumba (2015). The assembly of a field-deployable biosensor device operating on the electroless silver plated sensor platform for detection of aflatoxin B1. International Journal of science and Engineering Investigations. Volume 4, Issue 44: 6-10.

(vi) Alex P. Wacoo, Deborah Wendiro, Peter C. Vuzi, and Joseph F. Hawumba (2014). Methods for Detection of Aflatoxins in Agricultural Food Crops. Journal of Applied Chemistry Volume 2014: 1-15.

(vii) Mathew Ocheng, Alex Wacoo, Deborah Wendiro, Peter California Vuzi, and Joseph F. Hawumba (2015). The assembly of a field-deployable biosensor device operating on the electroless silver plated sensor platform for detection of aflatoxin B1. International Journal of science and Engineering Investigations. Volume 4, Issue 44: 6-10.

(viii) Enoch Wembabazi, Patrick Joram Mugisha, Asumani Ratibu, Deborah Wendiro, Joseph Kyambadde, and Peter California Vuzi (2015). Spectroscopic Analysis of Heterogeneous Biocatalysts for Biodiesel Production from Expired Sunflower Cooking Oil Volume 2015, Article ID 714396, 8 pages <http://dx.doi.org/10.1155/2015/714396>

(ix) Kyaligonza Vincent, Kawuki Robert, Ferguson Morag, Kaweesi Tadeo, Baguma Yona, Vuzi Peter (2014). Identification of F₁ Cassava (*Manihot esculenta* Crantz) Progeny Using Microsatellite Markers and Capillary Electrophoresis. *American Journal of Plant Sciences* 5, 119-125.

(x) Gwali S, Okullo JBL, Eilu G, Nakabonge G, Nyeko P, Vuzi, P. (2012). Traditional management and conservation of shea trees (*Vitellaria paradoxa* subspecies *nilotica*) in Uganda. *Environ Dev Sustain* 14(3):347–363.

(xi) Samson Gwali, Grace Nakabonge, John Bosco Lamoris Okullo, Gerald Eilu, Philip Nyeko, Peter Vuzi (2012). Morphological variation among shea tree (*Vitellaria paradoxa* subsp. *nilotica*) 'ethnovarieties' in Uganda. *Genet Resour Crop Evol.* DOI 10.1007/s10722-012-9905-8.

(xii) Okullo John Bosco Lamoris, Omujal Francis, Agea Jacob Godfrey, Mulugo Lucy Were, Vuzi Peter California, Namutebi Agnes, Okello John Bosco Acot, Okonye Godman, and Nyanzi Steven Allan (2012). Ethno-nomenclature of the Shea tree (*Vitellaria paradoxa* c.f. Gaertn.) and its products in the Shea zones of Uganda. *Global J Res. Med. Plants & Indigen. Med.* 1(10): 477–484

(xiii) Gwali S, Okullo JBL, Eilu G, Nakabonge G, Nyeko P, Vuzi, P. (2011). Folk classification of Shea butter tree (*Vitellaria paradoxa* subsp. *nilotica*) ethno-varieties in Uganda. *Ethnobot Res Appl* 9:243–256.

(xiv) Okullo, J. B. L., Omujal, F., Agea, J. G., Vuzi, P. C., Namutebi, A., Okello, J. B. A., and Nyanzi, S. (2010b). Proximate and mineral composition of shea (*Vitellaria paradoxa* C.F. Gaertn.) fruit pulp from the shea districts of Uganda. *African Journal of Food, Agriculture, Nutrition and Development*, 10(11), 4432-4445.

(xv) Okullo, J.B.L., Omujal, F., Agea, J.G., Vuzi, P.C., Namutebi, A., Okello, J. B. A., and Nyanzi, S. (2010a). Physico-chemical characteristics of shea butter (*Vitellaria paradoxa* C.F. Gaertn.) Oil from the shea districts of Uganda. *African Journal of Food, Agriculture, Nutrition and Development*, 10(1), 2070-2084.

(xvi) Odongo-Aginya, E., Ssegwanyi, G, Kategere P, and Vuzi, P. C. (2005): Relationships between malaria infections in different locations and rainfall patterns in Kitoro Entebbe, Uganda (*African Health Science Journal* September Volume 5(3) 2005).

Awards/Recognition Received

(i) 2010: Carnegie Cooperation USA Research Award on Shea, for the best research team with clear output and dissemination of results. (Award worth USD 5,000). Team leader Dr. J.B. Okullo, Members: Dr. P. C. Vuzi, Dr. Jacob Agea, Dr. J. B. Okello, Dr. Agnes Namutebi, Mr. Francis Omujal and Dr. Stephen Nyanzi.

(ii) 2014: United Nations Young Scientists Innovator's Award (worth USD 5000) Received in Nairobi, Kenya in October 2014. Team: Mr. Wacoo A., Mr. Ocheng, Ms. Wediro, Dr. Vuzi P. C. and Dr. Hawumba J.

Patents

Aflatoxin B1 biosensor operating on an electroless plated silver/cysteine sensor platform (IP Right Number 2015902636)