

Personal Details

Name: Vaderament-Alexe Nchiozem-Ngnitedem

Nationality: Cameroonian

Sex: Male

Email: n.vaderamentalexe@gmail.com
n.vaderamentalexe@yahoo.fr

Skype: Vaderament-Alexe Nchiozem-Ngnitedem

Languages: English, French



Profile Summary

I am a PhD holder in Organic Chemistry from University of Nairobi, Kenya. I am an alumnus of the University of Dschang, Cameroon. My main research interest is on isolation, structure elucidation and hemisynthesis of bioactive natural products from medicinal plants with antimicrobial, anti-inflammatory, and anti-cancer properties. This has led to the publication of 6 research articles in peer reviewed journals. I have co-authored 2 book chapters and supervised 2 undergraduate student's projects at the University of Nairobi. Moreover, I am highly skilled in characterization of organic molecules by using modern analytical techniques including NMR, LC-MSⁿ, semi-preparative HPLC, Column Chromatography (CC), GC-MS, X-ray diffraction analysis, CD, UV and FT-IR.

Academic Qualifications

Degree Awarded	University attended	Year of award
PhD in Chemistry	University of Nairobi	2021
MSc in Chemistry	University of Dschang	2016
BSc in Chemistry	University of Dschang	2013

Award of Scholarship

- DAAD-NAPRECA (Natural Products Research Network for Eastern and Central Africa (NAPRECA)), Sep 2017- Nov 2020.
- DAAD-YaBINAPA (Yaoundé-Bielefeld Graduate School Natural Products with Antiparasite and Antibacterial Activity (YABINAPA)), July and August 2017

Memberships

Associate Member of Royal Society of Chemistry (AMRSC), 2018 up to date

Research Experience

Doctoral [4-years]

School of Physical Sciences, University of Nairobi, Nairobi, Kenya. Thesis entitled “Phytochemical Study of Selected *Dracaena* Species for Anti-Inflammatory and Anticancer Principles”.

MSc [2-years]

Faculty of Science, University of Dschang, Dschang, Cameroon. Thesis entitled “Phytochemical Study and evaluation of the scavenging properties of the stems from *Adenocarpus mannii* (Fabaceae).

Research Visit

Department of Chemistry and Chemical Biology, TU Dortmund, Dortmund, Germany: Jun 2019-Feb 2020: Total characterization of bioactive secondary metabolites from Kenyan *Dracaena* species using state-of-the-art equipment: Project conducted under the supervision of **Prof. Dr. Dr. h.c. Michael Spiteller**

Conference/Congress/ Summer School Attended

3. Separation and structural elucidation of plant derived Compounds, Egerton University, Kenya, July-August 2018. Courses: Introduction to SciFinder, Mass spectrometry, Structure elucidation – NMR spectroscopy, Determination of absolute stereochemistry, Environmental microbiology, Pharmaceutical and natural products biotechnology, Computer aided drug design, Laboratory practical’s in isolation techniques using column chromatography and preparative HPLC and Taxonomy of higher plants
2. Pan Africa Chemistry Network Congress 2018: Managing Resources Through Chemistry: Wealth not Waste, University of Nairobi, Kenya, 2018
1. International Conference of the Natural Products Research Network for Eastern and Central Africa – Kenya (NAPRECA – K) Theme “Utilization of Natural Products for the Betterment of the Livelihood of Mankind”; SAJOREC, JKUAT, Kenya, 2018

Scientific Papers Presented

1. **Nchiozem-Ngnitedem, Vaderament-A., Omosa, Leonidah. K., Bedane, Kibrom. Gebreheiwot., Derese, Solomon., Spiteller, Michael.** Inhibition of pro-inflammatory

cytokine release by flavones and flavanones from the leaves of *Dracaena steudneri* Engl.
In: 5th NAPRECA-Zimbabwe Research Symposium, 2020

Supervision of Undergraduate Students

Kenneth Munyoike Kavayi (I64/5184/2017)	Phytochemical investigation of <i>Dracaena usambarensis</i> for anticancer principles (2020)
Evans Ochieng Angira (I64/4996/2015)	Phytochemical investigation of <i>Vernonia hilderbrandtii</i> Vatke and their anticancer properties (2019)

List of Publications

9. **Nchiozem-Ngnitedem, Vaderament-A.**, Omosa, Leonidah. K., Derese, Solomon., Efferth, Thomas., Spitteller, Michael. Cytotoxic flavonoids from the seeds of *Dracaena steudneri* Engl. *Heliyon* (under review)
8. Omosa, Leonidah. K., **Nchiozem-Ngnitedem, Vaderament-A.**, Mukavi, Justus., Okoko, Atieno. Brenda, Nyabokeye, Helder. O., Hashim, Ibrahim., Matundura, Obegi, Jackson., Efferth, Thomas., Spitteller, Michael. Cytotoxic Alkaloids from the Root of *Zanthoxylum paracanthum* (Mildbr) Kokwaro. *Natural Product Research* (under review)
7. **Nchiozem-Ngnitedem, Vaderament-A.**, Omosa, Leonidah. K., Bedane, Kibrom. Gebreheiwot., Derese, Solomon., Spitteller, Michael. (2020). Inhibition of pro-inflammatory cytokine release by flavones and flavanones from the leaves of *Dracaena steudneri* Engl. *Planta Medica*, 86, 1-9. DOI: <https://doi.org/10.1055/a-1306-1368>
6. **Nchiozem-Ngnitedem, Vaderament-A.**, Omosa, Leonidah. K., Bedane, Kibrom. Gebreheiwot., Derese, Solomon., Brieger, Lukas., Strohmman, Carsten., Spitteller, Michael. (2020). Anti-inflammatory steroidal saponin and a conjugated chalcone-stilbene from *Dracaena usambarensis* Engl. *Fitoterapia*, 146, 104717. DOI: <https://doi.org/10.1016/j.fitote.2020.104717>
5. Mukavi, Justus., Omosa, Leonidah. K., **Nchiozem-Ngnitedem, Vaderament-A.**, Nyaga, Justin., Omole, Ruth., Bitchagno, Gabin. Thierry. M., Spitteller, Michael. (2020). Anti-inflammatory norhopsanes from the root bark of *Fagaropsis angolensis* (Engl.) HM Gardner. *Fitoterapia*, 146, 104690. DOI: <https://doi.org/10.1016/j.fitote.2020.104690>
4. **Nchiozem-Ngnitedem, Vaderament-A.**, Omosa, Leonidah. K., Derese, Solomon., Tane, Pierre., Heydenreich, Matthias., Spitteller, Michael., Efferth, Thomas. (2020). Two new flavonoids from *Dracaena usambarensis* Engl. *Phytochemistry Letters*, 36, 80-85. DOI: <https://doi.org/10.1016/j.phytol.2020.01.001>
3. Nyabokeye, Helder. O., Moraa, Martha., Omosa, Leonidah. K., Mbaveng, Armelle. T., **Nchiozem-Ngnitedem, Vaderament-A.**, Masila, Veronicah., Okemwa, Evans.,

Heydenreich, Matthias., Efferth, Thomas., Kuete, Victor. (2018). Cytotoxicity of lupeol from the stem bark of *Zanthoxylum gillettii* against multi-factorial drug resistant cancer cell lines. *Investigational Medicinal Chemistry and Pharmacology*, 1(1), 10.

2. Nganou, Blaise. K., Selvaraj, Jubie., Tane, Pierre., **Nchiozem-Ngnitedem, Vaderament-A.**, Simo, Ingrid., Chaitanya. MVNL., Palanisamy, Dhanabal. (2020). A Review on *Adenocarpus mannii*; a Main Species of the Genus *Adenocarpus*. *Current Traditional Medicine*, 6(1), 3-12. DOI: <https://doi.org/10.2174/2215083805666190708153634>
1. Nganou, Blaise. K., Tane, Pierre., **Nchiozem-Ngnitedem, Vaderament-A.**, Selvaraj, Jubie., Selvaraj, A., Nanjan, Chandrasekar. (2017). Identification of Human NMPrtase Inhibitors *Adenocarpus mannii*; An *In-Silico* Approach. *Journal of Pharmaceutical Sciences and Research*, 9(2), 95-99.

Books Chapters Published

2. Bitchagno, Gabin. Thierry. M., **Nchiozem-Ngnitedem, Vaderament-A.**, Sylvain, Valere Sob, Fobofou, Serge Alain. Chemistry and biological activities of Cameroonian *Hypericum* species. (under review)
1. Bitchagno, Gabin. Thierry. M., **Nchiozem-Ngnitedem, Vaderament-A.**, Wandji, Nadine. Tseme., Noulala, Guy. Cedric. T., Fobofou, Serge. Alain. T., Lenta, Bruno. Ndjakou. (2020). Plant-Derived Compounds against Microbial Infections and Cancers. In *Natural Products-From Bioactive Molecules to Human Health*. IntechOpen. DOI: [10.5772/intechopen.92596](https://doi.org/10.5772/intechopen.92596)

Referees

Prof Leonidah Kerubo Omosa,
Department of Chemistry,
University of Nairobi, Kenya
Tel. +254-788-427-727
lkerubo@uonbi.ac.ke

Prof Abiy Yenesew
Department of Chemistry,
University of Nairobi, Kenya
Tel. +254-733-832576
ayenesew@uonbi.ac.ke

Prof Tene Mathieu,
Department of Chemistry,
University of Dschang, Cameroon.
Tel. +237-696-732-500
mtene2001@yahoo.fr

Prof. Dr. Dr. h.c Michael Spiteller
Department of Chemistry
TU Dortmund, Germany
michael.spiteller@tu-dortmund.de