

STEPHANE WAPOUO FADANKA - Molecular Biologist

Contact Information:

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Professional Experience

JAN 2021 - Today: **Research Manager (Cameroon)**, [Beneficial Bio \(UK\)](#)

JAN 2020 - Today: **Executive Director**, [Mboalab Biotech \(Cameroon\)](#)

SEPT 2019 - Today: **Researcher**, [Mboalab Biotech \(Cameroon\)](#) | [Open Bioeconomy Lab \(Cambridge University, UK\)](#).

Education

2015 - 2018: M.Sc. Molecular Biotechnology, Faculty of Science, Department of Biochemistry and Molecular Biology, University of Buea, Cameroon.

2013 - 2014: B. Sc. Biological and Biochemical Analysis, University Institute of Technology, University of Ngaoundere, Cameroon.

2011 - 2013: University Diploma in Technology, Biological, and Biochemical Analysis, University Institute of Technology, University of Ngaoundere, Cameroon.

Core Skills and Expertise

- **Corporate skills:** Team management; Lab management; Grant writing; Experimental design and planning; Protocol optimization; Quality management; Market analysis, Training and lectures.
- **Molecular Biology:** Protein expression and purification, PCR & qPCR, Gel electrophoresis, DNA extraction, Native and Denaturing PAGE, Chemical cell transformation, Klenow assembly (Seamless cloning), Plasmid Mini-Prep, DNA barcoding, Sequencing data analysis, GenBank sequence submission.
- **Nematology:** Microscopic examination of plant-parasitic nematodes; Cultivable plot damages and infestation rate assessment; Determination of the root necrosis index (RNI); Fieldwork and excursion; Extraction and enumeration of plant-parasitic nematodes; Identification, extraction, and culture of Plant-parasitic Nematodes; In vitro testing on Nematodes;
- **Microbiology:** Cell and Tissue culture, Medical Laboratory analysis, sample, and specimen collection, Culture media preparation, Microbial isolation, and characterization using Microscopy, Biochemical analysis, Cultural techniques and kits (Gallery API); Antimicrobial susceptibility testing;
- **Hardware/ Engineering:** DIY equipment design and prototyping ([Shaker incubator](#); [Open Source Microbiology incubator](#), Vacuum chamber, Desiccator); 3D modeling and printing, Laser cutting.
- **Software:** Microsoft Office package, MEGA, Benchling, GitHub, GitLab, Inkscape, Photoshop, Solid works, NCBI, R, SPSS.

Language:

- French - Native
- English – Fluent

Awards

- **2021:** Emerging Leaders in Synthetic Biology and Biosecurity Fellow ([ELSBBFellowship](#)), Ginkgo Bioworks, and SynBio Africa.

Membership

- **2023– Today:** Assistant Lead, Finance, Sponsorship and Partnership subcommittee, [SynBio Africa](#).

- **2022:** Local lead AfricaOSH 2022 Organising Comitee, Mboalab Yaounde, Cameroon
- **2022 – Today:** Open Science Ambassador and Mentor ([OLS Program](#))
- **2022– Today:** Volunteer/ Advisor, Association for the support of children with cancer [Mori'sChild](#)
- **2021 – Today:** Mentor with Mboalab community, [Outreachy](#).
- **2021- Today:** Vice President, Association pour la Promotion de la Science Ouverte en Haïti et en Afrique « [APSOHA](#) »
- **2018- Today:** Core member, in charge of scientific activities: [Bonabe Global Health Initiatives \(BGHI\)](#).

Publications

- **2022: Sanchita Bhadra, Inyup Paik, Jose-Angel Torres, Stéphane Fadanka, Chiara Gandini, Harry Akligoh, Jenny Molloy, Andrew D. Ellington.** *Preparation and Use of Cellular Reagents: A Low-resource Molecular Biology Reagent Platform. Current Protocols*, 2022, vol. 2, no 3, p. e387. DOI: <https://doi.org/10.1002/cpz1.387>
- **2021:** Distributed Manufacturing of Open Hardware. A Report of the Open Hardware Distribution & Documentation Working Group; <https://www.law.nyu.edu/centers/engelberg/news/2021-11-02-distributed-manufacturing>
- **2021: Fadanka S., Gandini C., Hedge S. Ajioka J., Molloy J.** *Streamline protein production by expression on agar plates (In preparation)*.
- **2020: Bhadra S, Ngyuen V, Torres JA, Kar S, Maranhao A, Fadanka S, Gandini C, Akligoh H, Molloy J, Ellington AD** *Producing molecular biology reagents without purification PLOS ONE*, 2021, vol. 16, no 6, p. e0252507.
- **2018:Eneke Esoeyang Tambe Bechem, Stephane Fadanka Wapouo and Pierre Michel Loubana** *Nematicidal Properties of Endophytic Fungi Isolated from Some Musa Species in Cameroon, for the Management of Radopholus similis and Platylenchus coffeae. Journal of Advances in Biology & Biotechnology 19(4):1-19, DOI: 10.9734/JABB/2018/45952.*

Selected Conferences and Talks

- **2022:** TReND in Africa & IBRO Advanced Neuroscience School – A focus on low-cost, state-of-the-art research tools and models. December 5-17, 2022; University of Cape Town, South Africa
- **2022:** OpenFlexureCon 2022, 11th-13th July, Bath Royal Literary and Scientific Institution, UK
- **2022:** Cambridge Africa Day, 6 July 2022, Emmanuel College, University of Cambridge, UK
- **2021:** International Synthetic Biology and Biosecurity Conference in Africa, Kampala, Uganda. 14-16, October 2021
- **2021:** Manufacturing Reagents in LMICs, MboaLab's experience in Cameroon, Reclone Community Meeting, 28/04/2021
- **2021:** Biology Club: Bio Community around the World, Biomakespace Cambridge, 8/03/2021
- **2020:** Community Biology Lab's Response to COVID-19 in Africa: The Case of the Mboalab in Cameroon, OpenAIR
- **2019:** Africa Makerspace Gathering, Accra, Ghana 8th-9th November 2019.

References

- **Eneke Esoeyang Tambe Bechem** Professor (Full) of Plant Biotechnology, Department of Botany and Plant Physiology, Faculty of Science, University of Buea, Po Box 63 Buea, Cameroon; tamenekeso@yahoo.co.uk
- **Jenny Molloy PhD**, Shuttleworth Foundation Research Fellow, Department of Chemical Engineering and Biotechnology, University of Cambridge, UK; jcm80@cam.ac.uk
- **Dr Chiara Gandini PhD**, Senior Inside Sales Specialist, Nuclera, Cambridge, UK chiara.gandini1@gmail.com
- **Dr Rene Bilingwe Ayiseh**, Biotechnology Unit, University of Buea. P.O. Box 63 Buea, South West Region, Cameroon. Mobile: (+237) 674 29 44 07 rbilingwe@yahoo.com
- **Dr Luria Leslie Founou, PhD**. Head of Research: Centre of Expertise and Biological Diagnostic of Cameroon; Advisory Member: WHO Foodborne Disease Burden Epidemiology Reference Group; Fellow: Cameroon Academy of Young Scientists (CAYS) & Royal Society of Tropical Medicine and Hygiene (RSTMH); Ambassador: AMR Insights Ambassador Network Tel: +237 222 31 49 05, luriafounou@gmail.com