



FACULTY OF SCIENCE

DEPARTMENT OF BIOCHEMISTRY



P.O. Box 812, Yaoundé, Cameroon Tel./Fax: (237) 22223-4496

> LABORATORY FOR PHYTOBIOCHEMISTRY AND MEDICINAL PLANTS STUDIES ANTIMICROBIAL AND BIOCONTROL AGENTS UNIT

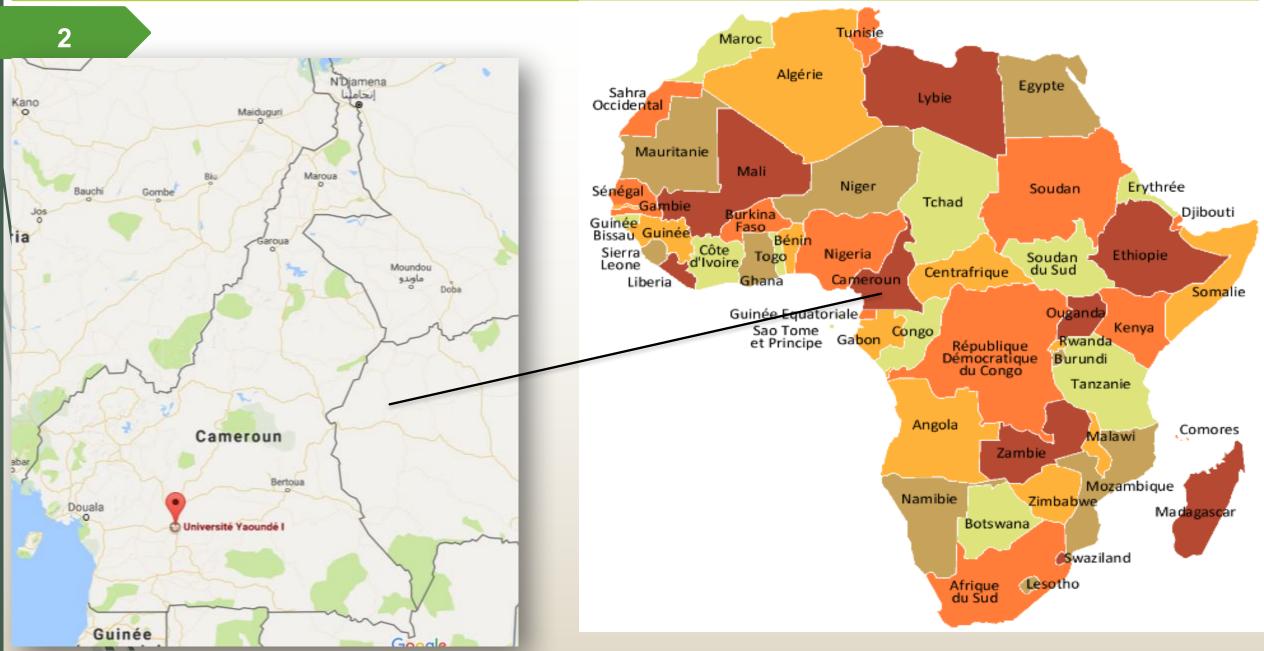
Head, Prof. Dr. Fabrice FEKAM BOYOM, MS, DS, ScD

Darline DIZE, Msc

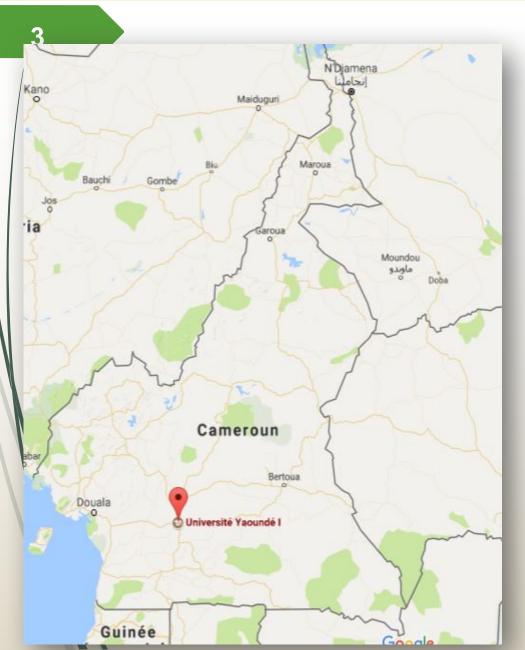
Tel.: +237 670 17 54 29

Email: darline.dize@yahoo.fr

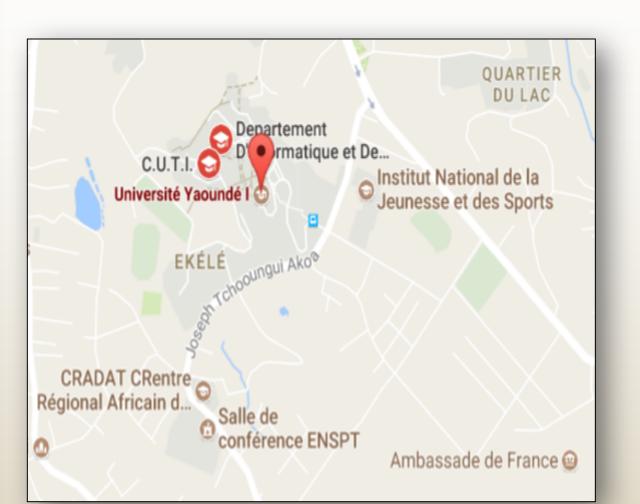
Geographic place-Institute and Laboratory situation



Geographic place-Institute and Laboratory situation



Cameroon: Central Africa
Town: Yaoundé
District: Ngoa-Ekelle



Main research question of the Laboratory

Can studying plants metabolites results in innovative

drugs against endemic NTDs and plants diseases?



4







Main research activities of the Laboratory

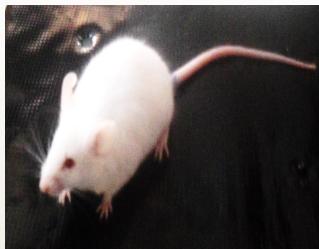
5

To seek answers to this main question, research at AmBcAU focuses on:

*Natural products isolation and characterization

✤ In vitro/In vivo antiparasitic screening

✤ In vitro/In vivo antibacterial and antifungal screening







Main research activities of the Laboratory

To seek answers to this main question, research at AmBcAU focuses on:

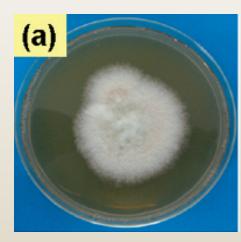
Cytotoxicity and toxicity studies

6

Biological control studies against plants pests







Long-term scientific goals

7

* To become an independent research leader in the field of drug discovery against NTDs

To formulate efficacious, safe, and cost-effective phytodrugs against NTDs

Main research question of my proposal

The impact of Trypanosoma's gene regulation on its pathogenicity (VSG)
Drug sensitivity activity
Combination of the potents compound
targets
What are intermediate metabolites release during parasite-extract interaction

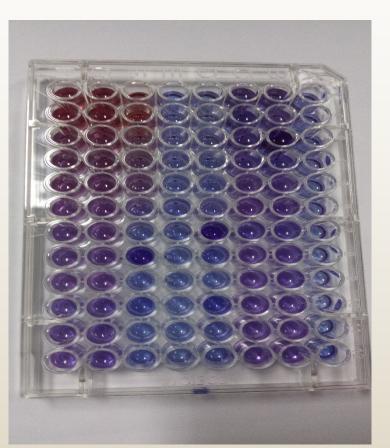
My hands-on laboratory expertise

I am comfortable in:

8

✓ In vitro screening of drugs againts protozoan, fungal, and

bacterial pathogens



My hands-on laboratory expertise

I am comfortable in:

9

✓ Antioxidant screening



✓ Mammalian cells culture and cytotoxicity assays

Needed ressources/expertise to promote my project.

10

Chemistry: Structure elucidation

- Genetic: identification of new drug targets
- Pharmacokinetics: biodisponibility, drug metabolism





THANK FOR YOUR KIND ATTENTION