

Barbara MOUYAMA

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Pharm D. / PhD candidate

EDUCATION

PhD - Parasitology

Jan 2022 - Present

Institut Pasteur de Paris (France), Institute of Tropical Medicine - University of Tübingen (Germany)

Doctor of Pharmacy (Pharm D.)

2015 - 2023

UFR Santé, Université d'Angers

Master 2 - Fundamental Microbiology

2020 - 2021

UFR Sciences d'Orsay, Université Paris-Saclay

Master 1 - Pharmaceutical sciences

2018 - 2019

UFR Santé, Université d'Angers

WORK EXPERIENCE

RESEARCH LABORATORIES

PhD - Parasitology

Jan 2022 - Present

BITP unit (024820, UMR U1347), Biology of Infection and Transmission of *Plasmodium* (2024-Present)

Parasitology unit, Centre de Recherches Médicales de Lambaréné in Gabon (CERMEL) (field work, 2023-2025)

BIHP unit (Inserm U1201, CNRS EMR9195), Biology of Interactions of Host-Pathogen (2022-2024)

- Defense : autumn 2026
- Supervisors : Sylvie GARCIA (Institut Pasteur de Paris, BITP - France), Steffen BORRMANN (Institute of Tropical Medicine, Sciences Faculty of Tübingen University - Germany)
- Head of the units : Liliana MANCIO (BITP), Akim A. Adegnika (CERMEL), Arthur SCHERF (BIHP)
- Topic : "**Study of *Plasmodium malariae* infection, ex vivo from field isolates and in vivo in a humanized mice model (HIS-HEry)**".

Pharmacy thesis

Sept - Dec 2023

- Defense : 20th of December 2023
- Thesis director : Sylvie GARCIA (Institut Pasteur de Paris - France)
- Thesis co-director : Nicolas PAPON (Université d'Angers - France)
- Manuscript : "**Current Landscape and Pharmacological Challenges Related to Antimalarial Treatments in 2023: The Significance of Innovative Approaches for Developing Enhanced Therapeutic Strategies**".
Nomination : thesis nominated for University and Professional Practice Thesis Prize 2023

Master 2 internship

Jan - Jul 2021

Department of Bacteriology (UMR1184), Research Center for Antimicrobial Resistance in *Enterobacterales*, Hôpital AP-HP Bicêtre (Le Kremlin-Bicêtre)

- Supervision: Thierry NAAS
- Manuscript: "**Characterization of 16S ribosomal RNA methyltransferases in carbapenemase-producing *Enterobacterales* in France (2018-2020)**"

Research internship

Mar 2020 - interrupted COVID-19

GEIHP (UPRES EA 3142), Laboratory Group for the Investigation of Host-Pathogen Interactions, Centre Hospitalier Universitaire d'Angers

- Supervision: Jean-Philippe BOUCHARA
- Topic: **Ecology of Emerging Fungal Pathogens in Cystic Fibrosis**
- Manuscript: "**Emerging fungal pathogens in cystic fibrosis: *Rasamsonia* spp., *Exophiala dermatitidis*, *Saprochaete clavata*, *Arthrographis kalrae*, and putrescine-positive yeasts.**"

Master 1 internship

Jun - Jul 2018

Mitolab unit (UMR CNRS 6015, INSERM 1083), MitoVasc Institute, Faculty of Medicine, Université d'Angers

- Supervision: Salim KHIATI, Guy LENAERS
- Topic: "**Influence of the LAFY peptide on the mitochondria of UACC62 melanoma cells**"

HOSPITAL

Extern student in Pharmacy & Medical services

Sep 2018 - Aug 2019

Quality Control Laboratory - Pharmacy department, Centre Hospitalier Universitaire d'Angers

- Supervision: Vincent LEBRETON, Karin COSSON
- Topic: "Development of a Method for the Quantitative Determination of Acetylsalicylic Acid Capsules"
- Internship in medical services : Obstetrics and Gynecology, Medical Genetics and Rheumatology

Hospital internship

2019

Clinical Pathology laboratory - Hygiene and Sterilization service - Medical Devices service

Centre hospitalier SARTHE-ET-LOIR

- Supervision: Véronique Annaix

SKILLS

FIELD WORK - CERMEL, Gabon

- 9 months

Animal experimentation (rodents)

- Conceptor and pratician training (facilities L2-L3)
- >4 years of experience

Microscopy

- Light and fluorescent microscopy (Leica DM IL LED Fluo)

Flow cytometry & Imaging

- BD LSRFortessa II, BD Symphony A1 and A5, ImageStream X Mark II, Incutye system

Cells handelling

- Cryopreservation, thawing, *in vitro* culture

Cells sorting

- Manual (beads)
- Automatic (MoFlo Astrios EQ, BigFoot)

Molecular Biology

- Nucleic acid extraction (manual, semi-automatic)
- Conventional & nested PCR, qPCR, qRT-PCR
- RNA FlowFISH
- Cloning
- Electrocompetent bacteria preparation

Pharmaceutical skills

- Antimicrobial susceptibility testing
- Mass spectrometry
- Quality documentation and traceability

EDUCATIONAL ACTIVITIES & SUPERVISION

2025 - Digital lecture (Online)

Trainees : CAIDERA Master student class

- Topic : "*Plasmodium malariae* infection *ex vivo* and *in vivo* study"

2024 - Technical training (2 days, Tübingen)

Trainees : Bachelor students, Sven HERRMANN, Anais RASCH

- RNA extraction from whole blood
- qRT-PCR procedure
- Standard curve design & validation
- Data interpretation

2023 - Field training (3 months, Gabon)

Trainee : Bachelor student, Leticia HARTMANN

- Immunostaining
- Flow cytometry (assissted session on cytometer, qualibration and maintenance)
- Blood cryopreservation and thawing

LANGUAGE

French : native

English : intermediate B1-B2

ORAL COMMUNICATION

Oral presentations

- Nov. 2025, **Departemental seminar** (Paris)
- 2022-2025, **CAIDERA annual seminar** (online)
- Sept. 2023-2024, **DAAD Global Center Symposium** (online, Berlin) : Oral presentation, participation as an interviewee for "Young scientists in the Global South - Round table"
- Nov. 2022, **G-WAC Digital Symposium** (online)

Poster presentations

- Sept. 2024, **DAAD Global Center Symposium** (Berlin)
- Oct. 2023, **World Health Summit** (Berlin)
- Juil. 2023, **Departemental seminar** (Troyes)

Research day participations

- Apr. 2025, **16th Malaria conference** (Tübingen)
- Jun. 2024, **Congrès - Société Française de Parasitologie et Mycologie Médicale** (Angers)
- Sept. 2022, **DAAD Global Centers for Health and Climate** (Berlin)