

# Barbara MOUYAMA

Pharm D. / PhD candidate

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## EDUCATION

<b>PhD - Parasitology</b>	Jan 2022 - Present
Institut Pasteur de Paris (France), in collaboration with the University of Tübingen (Germany)	
<b>Doctor of Pharmacy (Pharm D.)</b>	Sept 2015 - Dec 2023
UFR Santé, Université d'Angers	
<b>Master 2 - Fundamental Microbiology</b>	Sept 2020 - Jul 2021
UFR Sciences d'Orsay, Université Paris-Saclay	
<b>Master 1 - Pharmaceutical sciences</b>	2018
UFR Santé, Université d'Angers	

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## WORK EXPERIENCE

### Research Lab

<b>PhD - Parasitology</b>	Jan 2022 - Present
BITP unit (024820, UMR U1347), Biology of Infection and Transmission of <i>Plasmodium</i> (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)	
<ul style="list-style-type: none"><li>• Defense : autumn 2026</li><li>• Supervisors : Sylvie GARCIA (Institut Pasteur de Paris - France), Steffen BORRMANN (Institute of Tropical Medicine, Sciences Faculty of Tübingen University - Germany)</li><li>• Head of the units : Liliana MANCIO (BITP), Arthur SCHERF (BIHP), Akim A. Adegnika (CERMEL)</li><li>• <u>Topic</u> : "<b>Study of <i>Plasmodium malariae</i> infection, ex vivo from field isolates and in vivo in a humanized mice model (HIS-HEry)</b>".</li></ul>	

<b>Pharmacy thesis</b>	2023
<ul style="list-style-type: none"><li>• Defense : 20th of December 2023</li><li>• Thesis director : Sylvie GARCIA (Institut Pasteur de Paris - France)</li><li>• Thesis co-director : Nicolas PAPON (Université d'Angers - France)</li><li>• <u>Manuscript</u> : "<b>Current Landscape and Pharmacological Challenges Related to Antimalarial Treatments in 2023: The Significance of Innovative Approaches for Developing Enhanced Therapeutic Strategies</b>".</li><li>• Nomination : thesis nominated for University and Professional Practice Thesis Prize 2023</li></ul>	

<b>Master 2 internship</b>	Jan 2021 - Jul 2021
Department of Bacteriology (UMR1184), Research Center for Antimicrobial Resistance in <i>Enterobacterales</i> , Hôpital AP-HP Bicêtre (Le Kremlin-Bicêtre)	
<ul style="list-style-type: none"><li>• Supervision: Thierry NAAS</li><li>• <u>Manuscript</u>: "<b>Characterization of 16S ribosomal RNA methyltransferases in carbapenemase-producing <i>Enterobacterales</i> in France (2018-2020)</b>"</li></ul>	

<b>Research internship</b>	Mar 2020 - interrupted COVID-19
GEIHP (UPRES EA 3142), Laboratory Group for the Investigation of Host-Pathogen Interactions, Centre Hospitalier Universitaire d'Angers	
<ul style="list-style-type: none"><li>• Supervision: Jean-Philippe BOUCHARA</li><li>• <u>Topic</u>: "<b>Ecology of Emerging Fungal Pathogens in Cystic Fibrosis</b>"</li><li>• <u>Manuscript</u>: "<b>Emerging fungal pathogens in cystic fibrosis: <i>Rasamsonia</i> spp., <i>Exophiala dermatitidis</i>, <i>Saprochaete clavata</i>, <i>Arthrographis kalrae</i>, and putrescine-positive yeasts.</b>"</li></ul>	

<b>Master 1 internship</b>	Jun 2018 - Jul 2018
Mitolab unit (UMR CNRS 6015, INSERM 1083), MitoVasc Institute, Faculty of Medicine, Université d'Angers	
<ul style="list-style-type: none"><li>• Supervision: Salim KHIATI, Guy LENAERS</li><li>• <u>Topic</u>: "<b>Influence of the LAFY peptide on the mitochondria of UACC62 melanoma cells</b>"</li></ul>	

# 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

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## SKILLS

### FIELD WORK - CERMEL, Gabon

- 9 months

### Animal experimentation (rodents)

- Conceptor and pratician formation for facilities L2-L3 (ventilated racks, isolators)

### 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, culture (melanoma, *Plasmodium* infected red blood cells)

### Cells sorting

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

### Molecular Biology

- Conventional & nested PCR, qPCR, qRT-PCR
- RNA FlowFISH
- Cloning
- Electrocompetent bacteria preparation

### Pharmaceutical skills

- Antimicrobial susceptibility testing
- Quality documentation and traceability

## EDUCATIONAL ACTIVITIES & SUPERVISION

### 2025 - Digital lecture

Trainees : CAIDERA Master student class

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

### 2024 - Lab 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

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## ORAL COMMUNICATION

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