

YASMINE EDDOUBAJI

Research Assistant

Faculty of Medicine, Institute for Infectious Diseases
University of Bern

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Bern, Switzerland B Permit



EMPLOYMENT HISTORY

Researcher, Faculty of Medicine, Institute for Infectious Diseases, University of Bern 2022 - 2024

University of Bern Bern, Switzerland

- Developed and validated a novel in vivo model for studying intestinal colonization by MDR-*Ent*.
- Provided new insights into bacterial-host interactions and potential therapeutic interventions.
- Designed and implemented a bacteriophage-based decolonization strategy.
- Implementing Nanopore and Illumina sequencing technologies to analyze microbial genomes.
- Conducted microbiota profiling and diversity analysis to understand gut communities.
- Authored and co-authored several research papers in peer-reviewed journals.

Roche Part-Time Intern 2022

Roche Ltd Budapest Budapest, Hungary

Internship in Biotechnology department, faculty of pharmacy 2019 - 2020

Medical Biotechnology Department, MV University Rabat, Morocco

EDUCATION

Master of Pharmaceutical Biotechnology 2020 - 2022

University of Pécs Medical School, Hungary

Master's Thesis: Investigated gene expression and protein expression levels of CYP450 in AML disease and their changes with rapamycin treatment.

- Compared and quantified relative gene expression of CYP genes in angiomyolipoma cells.
- Identified and quantified cytochrome P450 protein in AML cells.
- Investigated expression levels after rapamycin treatment in AML cells.
- Examined associations of CYP variants with AML.
- Identified and quantified mitochondrial activity in AML cells.

Bachelor of Genomics and Bioinformatics 2017 - 2020

University of Sciences MV, Morocco

PUBLICATIONS

A new in vivo model of intestinal colonization using *Zophobas morio* larvae: testing hyperepidemic ESBL- and carbapenemase-producing *Escherichia coli* clones
<https://pubmed.ncbi.nlm.nih.gov/38659985/>

Intestinal colonization with multidrug-resistant Enterobacterales: screening, epidemiology, clinical impact, and strategies to decolonize carriers
<https://pubmed.ncbi.nlm.nih.gov/36680641/>

A new OCH β -lactamase from a *Brucella pseudintermedia* (*Ochrobactrum pseudintermedium*) strain isolated from *Zophobas morio* larvae
<https://pubmed.ncbi.nlm.nih.gov/38128729/>

Complete Genome Sequence of *Entomomonas* sp. Strain E2T0, Isolated from the Darkling Beetle *Zophobas morio* Larvae
<https://pubmed.ncbi.nlm.nih.gov/36541773/>

Complete genome sequence of *Pseudomonas canadensis* strain Pcan-CK-23 isolated from *Zophobas morio* larvae
<https://pubmed.ncbi.nlm.nih.gov/38682776/>

Refining the gut colonization *Zophobas morio* larvae model using an oral administration of multidrug-resistant *Escherichia coli*
In review, JGAR

Whole-genome of an *Enterococcus devriesei* strain isolated from *Zophobas morio* larvae

SKILLS

In vivo model development ·
Research & Analysis · Articles Review ·
Academic Writing · Data analysis ·
Statistical analysis ·
Experimental Design ·
R software · Python ·
Whole-Genome Sequencing ·
Nanopore Sequencing ·
Antibiotic Susceptibility Tests ·
Microbiota Analysis ·
Microbiome Diversity & Composition ·
Cell Culture · RT-PCR · ELISA ·
Immunofluorescence staining ·

LANGUAGE SKILLS

English: Advanced
French: Advanced
Arabic: Native
German: Beginner

GRANTS

Fully funded scholarship
Stipendium Hungaricum
2020 - 2022

Onsite Courses

Biodesign, Design of Medical Devices
Uppsala University, Angström Laboratory
2024

Conference Presentations

Swiss Society for Microbiology 2024
ECCMID 2023