

YVES LOISEAU--MARCHAND



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EDUCATION

Université Paris-Saclay

2023/24~Master 1-Life sciences and Health-Microbiology Track

Relevant courses : Synthetic biology; Signal transduction pathways; Bacterial genetics and physiology; Virus and genetic engineering ;Animal transgenesis; Membrane proteins: Biochemistry and molecular biology; Applied microbiology;

2020/23~Bachelor-Organismal Biology and Ecology

Relevant courses Year 3: Genomes exploration; Genetics of population; Practical courses for molecular biology and biochemistry; Data sciences; Ecotoxicology; Evolutionary biology
Year 2: Genetics and molecular biology; Biostatistics; Genetics and ecology of populations; Bioinformatics; Ecology of populations and communities

Year 1: Unity, diversity and evolution of living things.

SKILLS

Technicals:

- Python coding (intermediate level)
- Software: Geneious, Benchling, Pymol
- Molecular biology techniques and synthetic biology approaches
- Robots: Tecan Evo and Opentron

Linguistic:

- English working proficiency
- C1+ linguaskill listening and reading
B2+ speaking (delivered by Paris Saclay Language department)
- French native speaker

AWARDS

- iGEM gold medal
- iGEM Best foundational advanced project overgrad nomination

RESEARCH EXPERIENCE

Design and test of protein switches for environmental pollutants detection and creation of synthetic electrogenetics circuits in electroactive bacteria, under the supervision of Joshua Atkinson

Princeton University, Atkinson lab | April-August 2024

Continued research and development of a standardized interface for electrogenetics (see below) under the supervision of Ariel Lindner

Learning Planet Institute (Inserm) | July-August 2023

Key Techniques learned and used:

- Operation of robots - Tecan EVO and Opentron
- Working with a high degree of autonomy

Creation of a standardized interface for electrogenetics and participation in the iGEM competition, under the supervision of Ariel Lindner:

(<https://2022.igem.wiki/paris-bettencourt/index.html>)

Learning Planet Institute (Bettencourt Foundation and Université Paris Cité) | July-October 2022

Key Techniques learned and used:

- Plasmid and primer design
- Transformation into E. coli with up to 3 plasmids
- Cloning using Golden Gate and Gibson methods
- Characterization of genetically modified strains
- Communication of scientific results (oral and written, in English and French)
- Basics of electronics
- Construction of a project in team

Exploration of the diversity of soil actinomycete secondary metabolites in Paris, under the supervision of Vincent Libis

Learning Planet Institute (Inserm) | April-July 2022

Key Techniques learned and used:

- Isolation of Streptomyces bacteria strains from soil in a L2 laboratory
- Cultivation of these strains
- DNA extraction and PCR on target regions
- Development of new protocols and sterile environment manipulations
- Working in an international team