

Third level Researcher (R3; PostDoc) in the field of Metabolic Engineering

Location: Fondazione Edmund Mach

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Fixed-time (30 months) third level Researcher (R3; PostDoc) in the field of Metabolic Engineering available at the Edmund Mach Foundation, funded by the HEU project BRYOMOLECULES (<https://bryomolecules.eu/>).

The BRYOMOLECULES project, started on September 1st 2024, aims to explore the untapped potential of EU bryophytes (mosses and liverworts) to develop innovative, sustainable bioactive compounds for use in cosmetics and pharmaceuticals while contributing to the EU Green Deal.

Key Responsibilities:

- Candidate gene identification: Identify and select candidate genes from transcriptome and metabolome data sets obtained from different bryophyte species
- Functional validation: design, produce, and test novel yeast constructs for functional characterization of candidate genes for the biosynthesis of bryophytes bioactive specialized metabolites
- Cell factories: develop yeast strains for de novo synthesis of key metabolites identified within the project

This position will provide a unique professional experience at the interface between fundamental and applied research, allowing the successful candidate to develop her/his own research ideas aligned with the project's goals

We are looking for:

Experience in genetic engineering of yeast and/or bacteria

Strong self-motivation, adaptability and passion for research

Good capacity to work in collaborative, interdisciplinary teams

Applications are now open and require passing a formal selection.

Deadline: October 22nd, 2024.

Visit [Third level Researcher \(R3\) in the field of Plant Synthetic Biology and Yeast Engineering - Recruiting for the formation of a ranking for temporary positions \(367_CRI_BPN\)](#)

for more information contact

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