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CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Julie Leloup
Supervisor page	https://iees-paris.fr/annuaire/julie-leloup/
Host Institution	Sorbonne Université https://www.sorbonne-universite.fr/en
Research Lab	Institute of ecology and environmental sciences of Paris https://iees-paris.fr/en/
Research Team	Community and Ecosystem Ecology https://iees-paris.fr/departments/community-ecosystem-ecology/

Project Title

Synthetic reconstruction of phycosphere's community by coupling culturomic and bioinformatic approaches

Project Description

The phycosphere, defined as the association of photosynthetic and heterotrophic microorganisms, is an ephemeral ecosystem generating toxic bloom, for which mechanism are still poorly understood. Here, we will reconstruct assemblages at the Erlen scale, based on previous effort to isolate cultivable phycosphere. Thus, we will modulate taxonomic richness, identify the metabolic potential of each partner, and their cooperation by reconstructing metabolic networks with Metag2Metabo software.

Keywords

cyanobacterial phycosphere, synthetic communities, culturomic and bioinformatic

Description of the Host Research Lab

iEES-Paris develops generic theories on ecological and environmental systems in order to predict their dynamics in the context of global and local changes. It contributes to innovation in the sustainable management of biodiversity, ecosystems and agroecosystems and biological resources, to promote society's ecological transition.

To submit your application, please send an email with the required documents to
msca-pf@sorbonne-universite.fr