

PHD OFFER TO DEVELOP A FPU CONTRACT

Research project - **PROMISE**: Protist Metabolome Screening

PROMISE is an international project that promotes the search of bioactive compounds from communities of microbial eukaryotes. The project brings together biochemists to isolate the bioactive compounds, molecular biologists to identify the biosynthetic genes, and microbial ecologists to link the genes to natural species.

Reference: PCIN-2017-025, MINECO

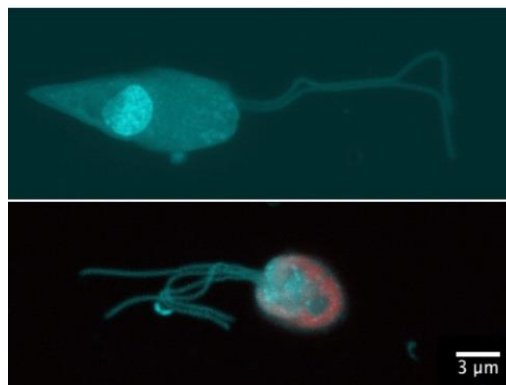
PhD Supervisor: Dr. Ramon Massana

Centre: Institute of Marine Sciences - Institut de Ciències del Mar (ICM-CSIC)

Overview of the PhD research

The main aim of this PhD will be to identify the genes and species responsible for the isolated bioactive compounds.

The candidate will assist in analyzing high throughput sequencing datasets (metagenomes, metatranscriptomes and single cell genomes) where to carry out this search. In addition, genes involved in important ecological functions like sexual reproduction, motility and phagocytosis will be investigated across the sequencing datasets.



This PhD will use a complementary set of tools, ranging from marine sampling, molecular techniques, genetics, and bioinformatics.

Requirements of the candidate

- Degree in Biology, Microbiology, Biochemistry, Bioinformatics, Ocean Sciences or similar.
- Be enrolled in a doctorate program for the course 2020/2021 (this can be formalized later).
- Very good academic record (university degree >8.0)
- High English level. Good writing abilities. Motivation to learn and to work in a team.

Working team

The candidate will join the Ecology of Marine Microbes research group ([EMM](#)) of the Institute of Marine Sciences ([Institut de Ciències del Mar, ICM-CSIC](#)), that has near 30 members including principal investigators, postdocs, PhD students and laboratory technicians and is currently involved in research projects on diverse and complementary topics.

The EMM group is currently involved in research projects on diverse topics and maintains close contact with national and international researchers in the fields of microbial ecology, oceanography, biogeochemistry and genomics.

The group maintains a firm commitment in training its students to ensure maximum learning benefit, including participation in courses and conferences, stays in other laboratories, seminars and other training strategies. We are fully committed to the "[10 simple rules towards healthier research labs](#)".

How to apply

The telematic application can be accessed in the MICINN website.

- At the first step, the applicant will be evaluated based on the university degree. The period of application is **from 16 November to 11 December 2020**.
- At the second step, the selected applicants, together with the PhD project, will be evaluated for a final selection.

Interested candidates, please contact the Principal Investigator:

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