

POSTDOCTORAL HOSTING OFFER at the Ecology of Marine Microbes Research Group (ICM-CSIC)

Postdoctoral position on gene expression in bacterivorous marine protists

The Ecology of Marine Microbes Research group is seeking candidates to apply for a **MSCA Postdoctoral Fellowship**. Our laboratory belongs to the Institut de Ciències del Mar (ICM-CSIC), the largest multidisciplinary marine research centre in Spain, with a leading role in Southern Europe and the Mediterranean region. Candidates interested in being hosted at ICM will receive specific training and support to write the proposal.

GENERAL INFORMATION

Research area: Ecology of Marine Heterotrophic Protists

Department: Marine Biology and Oceanography

Research group: Ecology of Marine Microbes - <https://emm.icm.csic.es/>

Researcher: Ramon Massana

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RELATED RESEARCH PROJECT

Project title: Gene expression in bacterivorous marine protists

Abstract: The research of my team is on ecology of marine heterotrophic protists, with a focus on bacterivorous species that play a pivotal role in microbial food webs. We investigate the species forming these assemblages, their biogeography over global oceanographic scales, and access their genomes through single cell genomics. We are currently constructing hundreds of single cell genomes that will be used to recruit specific genes present and expressed in the environment through metagenomics and metatranscriptomics. We are also conducting gene

expression experiments with a few selected cultured species. We are searching for marker genes of bacterivory, in particular proton pumps, digestive enzymes and rhodopsins, recently found to be very diverse and prevalent in marine uncultured bacterivores.

SPECIFIC TASKS OF THE CANDIDATE

The candidate will contribute to analyse the collection of single cell genomes to identify functional genes involved in phagocytosis in bacterivorous marine protists. He/she will be also involved in gene expression studies with cultured species actively grazing on different bacterial preys.

HOST INSTITUTE – INSTITUT CIÈNCIES DEL MAR (ICM-CSIC)

The Institut de Ciències del Mar (ICM, CSIC), located in Barcelona, is a multidisciplinary marine research center, including research on marine physics, marine geosciences, marine biology, marine chemistry, fisheries management, and technological development. ICM is the largest centre for multidisciplinary marine science in Spain, with a leading role in Southern Europe and the Mediterranean region. ICM's research encompasses theoretical, numerical and experimental approaches, with field work and cruises in the Mediterranean and all world's oceans. The Severo Ochoa Excellence accreditation has recognized the ICM leadership in marine research with a relevant commitment to generating social and business impact.

The ICM has a highly interdisciplinary character, with the ability to broadly address numerous questions and challenges related to marine sciences and technologies. This multi- and inter-disciplinary focus has driven a sustained collaboration with many other national and international research groups. Every year ICM runs some 50 active projects and contracts.

CANDIDATE REQUIREMENTS

- Doctoral Degree obtained before September 14th, 2022.
- Mobility:
 - o Mobility rule: not resided / main activity in Spain (or associated partner organisation for Global Fellowship) more than 12 months after September 13th 2019.
 - o Confirmation that, as of September 14th 2022, the candidate has a **less than 8 years of full-time equivalent** experience in research, measured from the date that the researcher was in a possession of a doctoral degree and certified by appropriate documents with the exception of years outside research, career breaks (in the case of career break), or work outside Europe (in case of reintegration).

APPLICATION PROCESS

This hosting offer is to apply for a fellowship at the MSCA Postdoctoral Fellowships funded by the Horizon Europe Programme hosted at the ICM. For specific requirements and application process of the fellowship, please see the relevant [call](#).

Candidates willing to apply for this hosting offer should contact the Principal Investigator and projectes-osr@icm.csic.es preferably before June 30th, including a complete CV.

A **training package with tips to write a winning proposal** will be offered to candidates (Session dates: 1st, 7th & 8th July 2022).

Principal Investigator contact details:

Ramon Massana - ramonm@icm.csic.es
