

POSTDOCTORAL HOSTING OFFER

Postdoctoral position in genomics of marine uncultured protists

The Ecology of Marine Microbes research group is seeking candidates to apply to **Juan de la Cierva** Fellowships. Our laboratory belongs to the Institut de Ciències del Mar (ICM-CSIC), the largest multidisciplinary marine research center in Spain, with a leading role in Southern Europe and the Mediterranean region.

GENERAL INFORMATION

Research area: Protist Ecology and Genomics

Department: Marine Biology and Oceanography

Research group: Ecology of Marine Microbes

Researcher: Ramon Massana

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RELATED RESEARCH PROJECT

Project title: Marine Protist Single Amplified Genomes

Abstract: Protists play essential roles in the marine ecosystem: phototrophs form the base of food webs and grazers perform trophic transfers. Marine protists are known to be highly diverse and to include many uncultured taxa. Single Cell Genomics (SCG) is an emerging powerful tool to study the gene content, function and ecology of uncultured protists. The specific objectives of this project are: 1) Determine the genomic content of uncultured marine protists to infer their functional potential and ecosystem roles, 2) Place uncultured species in the eukaryotic tree of life and reveal their genome evolution. The use of SCG is at the cutting edge of microbial ecology and evolution, and its development is affording a new window into the life histories of protists.

SPECIFIC TASKS OF THE CANDIDATE

The candidate will participate in the management of a set of single amplified genomes available at the host institution, including genome assembly, gene predictions and functional annotations. The curated genomes will then be exploited to address a variety of questions, ranging from single cell interactions (viruses, preys, symbionts), ecological functions (motility, phagocytosis, sex, resting strategies), to evolutionary issues (gene evolution, accurate placement of novel taxa). The candidate will develop a specific topic within this myriad of opportunities and will present the results in scientific publications.

RESEARCH GROUP

The candidate will join the Ecology of Marine Microbes research group (EMM) (<https://emm.icm.csic.es>) that has about 30 members including staff scientists, postdocs, PhD students and lab technicians. 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. It is responsible for a monitoring station, Blanes Bay Microbial Observatory, from which an extensive dataset of cell abundances, microbial diversity and environmental genomics already exists.

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

The Institut de Ciències del Mar (ICM, CSIC), located in Barcelona, is a multidisciplinary center, including research on marine physics, marine geosciences, marine biology, marine chemistry, fisheries management, and technological development. ICM is the largest marine center 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. Every year ICM runs some 50 active projects and contracts. The Severo Ochoa Excellence accreditation has recognized the ICM leadership in marine research with a relevant commitment to generating social and business impact.

CANDIDATE REQUIREMENTS

There are two calls to apply, depending on the scientific career stage of the candidate:

- Juan de la Cierva – Formación:
 - PhD year: 2019 – 2020
 - Not having obtained the PhD at ICM

- Juan de la Cierva – Incorporación:
 - PhD year: 2016 – 2018
 - If the PhD was obtained at ICM, they must have spent at least 12 months as trainee in another institute.

Interested candidates should write a motivation letter to the PI of the call.



APPLICATION PROCESS

This hosting offer is to apply for a fellowship program Juan de la Cierva, funded by Spanish “Ministerio de Ciencia, Innovación y Universidades” under the supervision of the ICM. For specific requirements and application process of the fellowship, please see the relevant call:

- Juan de la Cierva Formación (2 year contract, aprox. annual gross salary 29,000 €):
<https://www.ciencia.gob.es/portal/site/MICINN/menuitem.dbc68b34d11ccbd5d52ffeb801432ea0/?vgnextoid=5cd919af71af5710VgnVCM1000001d04140aRCRD>
- Juan de la Cierva Incorporación (3 year contract, aprox. annual gross salary 29,000 €):
<https://www.ciencia.gob.es/portal/site/MICINN/menuitem.dbc68b34d11ccbd5d52ffeb801432ea0/?vgnextoid=056fe027b89f5710VgnVCM1000001d04140aRCRD>

Applications must be submitted before **January 19th, 2021**.

For further information, please contact the Principal Investigator:

Researcher name: Ramon Massana

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