

Vienna, Austria, 17<sup>th</sup> August 2022

We look for candidates for a **3-year postdoctoral position** to work on the FWF-funded project "EXEBIO": Marine extracellular ecosystem biology. The main scope of EXEBIO is to study the function and relative contribution of extracellular proteins to the ecology and biogeochemistry of the ocean, and their potential response to global change.

Recent evidence suggest that there are many proteins secreted out of the cells into the environment (i.e., secretome) mediating processes that can be fundamental for the functioning of the ocean microbiome. A large fraction of such proteins have been found dissolved in seawater where they can remain active at distance from the cells for a prolonged period of time. Hence, in this project we will characterize the marine microbial secretome potential, expression and its taxonomic affiliation, as well study the response of the marine secretome to global environmental change.

**The successful candidate must have the following skills/qualifications:**

- Ph.D. in biological sciences, computational biology, molecular biology, biochemistry, oceanography, or microbiology is required.
- Convincing publication record.
- Strong computational skills and experience analysing 'omics' data sets. Experience in handling large datasets (e.g., high-throughput sequencing data), programming and scripting (e.g. Python, R).
- Profound experience in molecular techniques (DNA, RNA and Protein extraction & purification).
- Strong written and spoken English language communication skills.
- Highly motivated, organized, and independent.
- Ability to work in a multi-disciplinary team, willing to mentor students and fellows.

**In addition, the following qualifications are desired and will be given weight:**

- Experience with microbiological and cell culture techniques.
- Knowledge of numerical ecology approaches and/or oceanography.

The postdoc will join the Fungal and Biogeochemical Oceanography Laboratory, in the Department of Functional and Evolutionary Ecology at the University of Vienna, Austria. The University of Vienna and the Department of Functional and Evolutionary Ecology provide an innovative working environment of interdisciplinary and international scientists. In addition to high-end instrumentation, experimental facilities (wet lab and climate chambers), state-of-the-art laboratories are available that include basic infrastructure for molecular and microbiological work, as well as water analysis.

All qualified applicants will receive consideration for the position without regard to race, color, religion, sex, sexual orientation, gender identity or national origin. Candidates are asked to submit their letter of motivation, a full CV (including ORCID number), list of publications, and names and addresses of at least two academic references, to Assoc.-Prof. Dr. Federico Baltar- **[federico.baltar@univie.ac.at](mailto:federico.baltar@univie.ac.at)**.

Applications will be open until **2<sup>nd</sup> of September 2022**, and the work is to be started as soon as possible.