



The Working group Environmental Biochemistry at the Carl von Ossietzky University of Oldenburg, Germany, is seeking a postdoctoral researcher to assess the biodiversity of invertebrate-associated bacterial communities, using molecular and traditional isolation methods. We are offering a

Postdoctoral Position (E 13, 100 %)

The position ends on March 31, 2018, starting as soon as possible (from July 1, 2016). The position is suitable for part-time work.

The search for novel pharmacologically active marine natural products is one of the most important challenges in natural product research of this century. Most of the traditional resources have been exploited and only the combination of using novel biological resources (e.g. micro- and macroorganisms from coral reefs or deep sea habitats), together with highly sophisticated biological assays and screening technologies can be successful in the future. The aim of our project is the exploration of the vast diversity of natural compounds with diverse biological activities from various invertebrate associated microorganisms. Within this project, unique resources will be systematically investigated via screening campaigns involving human pathogenic viruses, bacteria, fungi and cellular assays. By investigating the microbial diversity of various marine invertebrates (e.g. sponges) via next generation sequencing we aim to identify suitable sources for the isolation of bioactive microorganisms, as well as to gain insight into the microbial ecology of the holobionts.

We are seeking a highly motivated postdoctoral candidate with an academic university degree (master or equivalent) and a PhD in Biology, Microbiology, Marine Environmental Science or related field to join our research team. The successful candidate should have a strong background in molecular biology, especially computational molecular analysis. He/she will be joining a team of chemical and microbial ecologists and natural product chemists at the ICBM in Wilhelmshaven.

Required Qualifications:

- PhD in Biology, Microbiology, Marine Environmental Science or related field
- Strong background in computational molecular analysis
- Extensive experience in phylogenetic and statistical analysis of large next-generation sequencing datasets
- Experience in various molecular biology methods (e.g. QPCR, DGGE, next-generation sequencing)
- Experience in the isolation and culture of bacteria (including large liquid cultures for compound production) and maintaining and organizing culture collections
- Excellent English speaking and writing/publication skills are essential



- Efficient self-organization, laboratory management skills and being a team player are social prerequisites

Additional assets include experience in participating and organizing research expedition from small boats and large research vessels. The candidate should be inquisitive and critical thinking, problem solving and team-leading, as he/she is expected to co-supervise Master and PhD students.

The University of Oldenburg is dedicated to increasing the percentage of women in science. Therefore, female candidates are particularly encouraged to apply. In accordance with Lower Saxony legal regulations (NHG §21), equally qualified female candidates will be given preference.

Applicants with disabilities will be employed preferentially if equally qualified.

We ask applicants to send a single PDF file containing their CV and letter of motivation as well as contact information of three references by e-mail (preferred) to Peter Schupp (peter.schupp@uni-oldenburg.de). Alternatively the application could be sent by mail to Prof. Peter Schupp, ICBM, Postfach 2503, 26111 Oldenburg, Germany. Additional information about the group can be found under <http://www.icbm.de/umweltbiochemie/>. Review of applications will start 1.6.2016.