

Postdoctoral Researcher Position in Marine Microbiology for 2 Years

A two-year position as Postdoctoral Researcher is available from January 2016 to investigate microbial and chemical processes associated with marine bacterial glycan degradation. The project combines molecular-microbiological and biochemical approaches to elucidate phenotypic characteristics, substrate utilization patterns, and CAZyme-encoding gene expression of established model hydrolyzers grown on important marine glycans such as alginate. Biochemical analyzes to clarify bacterial CAZyme diversity will be complemented by Fourier transform ion cyclotron resonance mass spectrometry (FT-ICR-MS) to characterize the exometabolome chemodiversity of glycan degraders. In addition, co-culture experiments with hydrolytic and non-hydrolytic strains will provide insights into ecological interactions between bacteria with different hydrolytic abilities. The project is a cooperation of the Universities of Oldenburg and Bremen (Germany) including Profs. Meinhard Simon and Thorsten Dittmar (Institute for Chemistry and Biology of the Marine Environment) as well as Dr. Jan-Hendrik Hehemann (MARUM), providing an excellent and collaborative working environment. The Postdoctoral Researcher will carry out bacterial culture experiments, analyze gene expression, and is involved in DOM and CAZyme analyses. He/she should have expertise in microbial cultivation and molecular microbiology. Experience in DOM analyses (HPLC, FT-ICR-MS), glycochemistry, or enzymatics would represent a major asset. Requirements are a university degree (Master or Diploma), an above-average doctorate in microbiology or analytical geochemistry, and proven publications in scientific journals. Salary will be according to German pay scale level TVL E13 (100%). Interested applicants should send a cover letter, curriculum vitae, list of publications, and contact information for three references to Prof. Meinhard Simon as pdf per email or by regular mail (address see below). The University of Oldenburg is an Equal Opportunity Employer, and all qualified applicants will receive consideration for employment. As the University intends to increase the proportion of female employees in science, women are particularly encouraged to apply. In case of equal personal aptitudes and qualification priority will be given to disabled persons.

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