2-year post-doctoral fellowship

available at the

Department of Chemistry and
Umeå Plant Science Centre,
Umeå University, Sweden

Metacaspase-like proteases in photosynthetic unicellular organisms

A post-doctoral fellowship is available in the group of Prof. Christiane Funk, Dept. of Chemistry and Umeå Plant Science Centre (https://www.upsc.se/), Umeå University (http://www.umu.se/), Sweden. The aim of the project is to characterize the structure and function of **metacaspase-like proteases in cyanobacteria and unicellular algae**.
Cyanobacteria and algae have a potential commercial value as microbial producers of fuel or products with higher value; however, in nature their blooms also are threatening health and industrial benefits. To learn more about the viability of large algal/bacterial cultures we plan to study the family of metacaspases and their homologues in unicellular photosynthetic organisms. Studies will be performed in green algae, cryptophytes and cyanobacteria. The projects are connected to strong research environments at Umeå University and will be managed through regular meetings between the scholar and the involved scientists.

The Dept. of Chemistry and Umeå Plant Science Centre belong to the vibrant and international research centre located at the Chemical Biological Research Platform (http://www.kbc.umu.se/) at Umeå University. Umeå is an attractive university city with rich academic and cultural activities and the capital of northern Sweden.

Applicants profile: The post-doctoral fellowship is open for one year with possible extension for a second year. Highly motivated applicants with good publication record in international reviewed journals will be considered. A Ph.D. in Biology, Biochemistry, Molecular Biology or related life science is a prerequisite. The requested experimental skills include a solid background in molecular biology and biochemistry. Furthermore the successful candidate should have worked with cyanobacteria, preferably with *Synechocystis* sp. PCC 6803 and/or unicellular algae. Previous experience working with proteases are of benefit. A strong motivation to learn, an ability to develop new methods, and an ability to work in an interdisciplinary environment, are important features of the persons we are looking for. The fellowship is available immediately.

The application should include (1) a Curriculum Vitae with publication list, (2) copies of degree certificates, (3) names and contact information to at least three reference persons and (4) a cover letter with a motivation and can be submitted either electronically (MS Word or PDF format) or in hard-copy (two copies) form.
For further information about the fellowship, please contact
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Information on current research of the group can be found at:
http://www.chemistry.umu.se/english/research/group-leaders/christiane-funk/ or
http://solarfuels.eu/ or https://www.upsc.se/associate-researchers/4659-christiane-funk-shedding-light-on-photosynthetic-antenna-proteins.html