



Open PhD position on regulation cyanobacterial cAMP sensing

A DFG-funded PhD position (E13, 65%) “Linking second messenger nucleotide signalling with CO₂ homeostasis in cyanobacteria: unravelling the SbtB-based network.” is available at the University of Rostock, Germany.

Prof. Martin Hagemann (Email: martin.hagemann@uni-rostock.de), head of the Department of Plant Physiology, Germany, is searching for a scientist to participate in the DFG-funded research project, which will be performed in close cooperation with Prof. Karl Forchhammer, University Tübingen, Germany. The position is for 3 years, available from **October 2019**, or later.

The project tasks include the identification of mechanisms involved in the regulation of acclimation of cyanobacteria under high and low CO₂ conditions. Especially, we are interested in the role of second messengers in this process on transcriptional and metabolic regulation of cyanobacterial primary metabolism. Mutants defective in players of the cAMP-based network will be analyzed regarding changes in the CO₂-regulated processes. Preliminary work has been published (Selim et al., The PII-like signaling protein SbtB links cAMP sensing with cyanobacterial inorganic carbon response. *Proc Natl Acad Sci USA* (2018) 115:E4861-E4869). The work will use a broad spectrum of techniques in biochemistry, molecular biology and metabolite analyses, which will be performed in extensive collaboration with other laboratories.

For this we seek a highly motivated candidate with a suitable background in, e.g., biochemistry, (green) microbiology, molecular biology or plant physiology (M.Sc. or diploma level).

Please transfer your application to the University administration (dezernat.personal@uni-rostock.de) referring to open position number **D126-19** as suggested under <https://www.uni-rostock.de/fileadmin/uni-rostock/Stellenausschreibungen/D126-2019-bio-Hagemann.pdf>