

The Chair Plant Biotechnology, Faculty of Biology,
University of Freiburg (Germany)
invites applications for a

Ph.D. student position Plant Computational Biology

Modification of non-human protein O-glycosylation in the moss bioreactor

This project is part of a grant from the research activity “Glykobiologie/Glykobiotechnologie” from the Ministry of Science and Arts (MWK) of the state of Baden-Württemberg. Salary is according to German pay scale (TV-L) E13 65%.

Moss (*Physcomitrella patens*) is a promising alternative production host for valuable recombinant biopharmaceuticals with the first product in clinical trials. In this project we will identify and predict consensus sequences for plant-typical protein O-glycosylation in order to engineer moss production lines for human-like protein modifications. The project involves analysis of post-translational modifications via mass spectrometry, quantitative comparison of different MS data sets and deduction of sequence motives to set-up a prediction tool for non-human protein modifications in recombinant biopharmaceuticals.

The research will be conducted in close collaboration with a second PhD student specialised in molecular biology, protein biochemistry and proteomics.

We offer a stimulating interdisciplinary and international working environment in one of the nicest German cities. The successful candidate will work under the supervision of PD Dr. Eva Decker and Prof. Dr. Ralf Reski. More information about us at www.plant-biotech.net.

The successful candidate has a master or a diploma in a life science, preferably biology, with a strong background in computational biology/bioinformatics.

The project starts in April 2017 but can be filled later, based on a suitable candidate. According to our structured PhD studies program, initial payment is guaranteed for the first year and will be prolonged for the second and third year after positive evaluation of the PhD student's progress.

The University of Freiburg is committed to increasing the quota of women and we encourage women to submit their applications. The physically disabled will be given preference if equally qualified.

Please send your application including a motivation letter with your earliest possible starting date, names and contact details of up to three scientists able to provide references at your earliest convenience as a single pdf-file by email to Mrs. Prowse at pbt@biologie.uni-freiburg.de

Pflanzenbiotechnologie:

- Lehrstuhl für Pflanzenbiotechnologie der Fakultät für Biologie der Albert-Ludwigs-Universität Freiburg, Prof. Dr. Ralf Reski
- Mitglied von BIOS, SGBM und FRISYS der Albert-Ludwigs-Universität Freiburg
- Affiliated to ESBS Strasbourg