Max-Planck-Institut für Biochemie

Zelluläre und molekulare Biophysik

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The Max Planck Institute of Biochemistry is one of the leading research institutes within the fields of biochemistry, cell- and structural biology, and biomedicine. We are currently looking for suitable candidates for a

***Master's project* at the Max Planck Institute of Biochemistry**
joint position at the departments Cellular and Molecular Biophysics (Schwille) and Molecular Basis of Protein Trafficking (von Blume)

"Studying Cargo Sorting in the Golgi during Protein Secretion using a Bottom-up Synthetic Biology approach"

Aim: *in vitro* reconstitution of the recently discovered pathway for the sorting of soluble cargo in the trans Golgi network, in particular the role of the Ca^{2+}-ATPase SPCA1 in facilitating the luminal sorting process and its regulation by actin and cofilin.

What we offer: An exciting project at the interface of cell biology and biophysics in a vibrant international research institute. In addition, to providing comprehensive scientific training in a superb environment with state-of-the-art facilities, laboratory work will be supplemented by seminars. This project is part of a collaboration between the departments of Molecular Medicine and Cellular and Molecular Biophysics.

What you bring: We are looking for a highly motivated master student who is interested in applying biochemical and biophysical methods to open questions in protein and membrane trafficking. We are particularly searching for candidates that have a strong background in protein biochemistry and quantitative biology or biophysics (experience in (confocal) fluorescence microscopy and/or working with lipids would be advantageous). Good command of English is desirable. Please note that this particular project will be a minimum of 6 – 12 months, applications for shorter internships (mimimum duration: 2 months) will be considered on a case-by-case basis.

For further details and to apply, please contact Dr. Kristina Ganzinger (Cellular and Molecular Biophysics), ganzinger@biochem.mpg.de.
