PhD position available

Within the framework of a collaborative project between the University of Zürich and University of Leipzig, we have an open PhD position to fill immediately. The candidate for this project will dissect the biophysical mechanisms of nucleic acid recognition and unwinding by a class of proteins termed Cold Shock Proteins (Csps). Csps ensure continued survival of bacteria after severe temperature drops. The project will be based primarily on correlated measurements involving single molecule fluorescence and nanomechanical experiments (magnetic tweezers). The candidate will monitor and model the ligand- and temperature-dependent conformational states and dynamics of the Csp proteins.

The ideal candidate will have a masters degree in physics, physical chemistry or quantitative biochemistry with strong interest in molecular biophysics. Interest or expertise in programming is not required but considered an advantage. Prior experience with handling of biomolecules is a plus.

This research will be conducted in the molecular biophysics lab (chaired by Prof. Ralf Seidel) at the University of Leipzig. The project will be conducted in close collaboration with Dean Prof. Dr. Roger Stefan from the University of Zurich.

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