



Postdoctoral researcher in structural biology for the study of redox sensitive proteins

Position: A postdoctoral research position is immediately available for structure-function studies of proteins involved in redox metabolite signaling. Successful candidates will join the exciting research environment of the Messens VIB-laboratory at the Center for Structural Biology in Brussels, Belgium. The Messens laboratory is recognized as a world leader in the redox field, and the lab provides an outstanding position in protein biochemistry and structural biology, in a highly dynamic and team-oriented research group. In this cutting-edge research environment, you will tackle essential biological problems in metabolite signaling.

Mission of the lab: We decipher how cells sense redox metabolites and transduce stimuli into downstream biological effects. Knowledge of the mechanisms by which sensors and transducers function are invaluable in understanding how redox homeostasis pathways can be engineered with the ultimate goal of improving oxidative stress resistance in plants and to identify therapeutic targets in diseases such as diabetes and cancer, which have been associated with aberrant redox signaling.

Your role in the lab: You will be involved in a project that exploits prokaryotic proteins for the *de novo* design of biosensors with a fluorescent read-out for both *in vitro* studies and live imaging of cellular metabolic changes. Further, your expertise will be needed for the structural and functional analysis of plant H₂O₂-sensing proteins to explore how organelle communication functions at the molecular level.

Requirements: Applicants should have obtained a PhD in the last 5 years within the field of structural biology and should have hands-on expertise with protein purification, protein crystallization, diffraction data collection at synchrotron beamlines, and solving protein crystal structures. Fluency in English is a must. Experience with biophysical techniques is a plus, but not required.

Please include a cover letter discussing your interests in our laboratory and projects as well as your CV and a list of 3 individuals as references when applying to Jobsoid (<https://vibvzw.jobsoid.com/j/16843/postdoctoral-researcher-in-structural-biology-for-the-study-of-redox-sensitive-proteins>).