

Enzymes of the ubiquinone biosynthetic pathway

The post-doctoral position will be held in the Laboratoire de Chimie des Processus Biologiques (UMR CNRS 8229, Dir : Pr. Marc Fontecave, Collège de France, Paris) for a period of 48 months. He/she will be devoted to the structural and functional investigation of several enzymes of the ubiquinone biosynthetic pathway, in order to identify the molecular mechanisms of some keys steps in this pathway (Resp: Dr. Murielle Lombard). A multidisciplinary approach will be used with complementary techniques of biochemistry, biophysical characterization and protein crystallography. This work will benefit from established collaborations with research teams in France (F. Barras, Laboratoire de Chimie Bactérienne, Aix-Marseille and F. Pierrel, Laboratoire Adaptation et Pathogénie des Microorganismes, Grenoble) and from state of the art equipments for X-ray crystallography and spectroscopies (UV-visible absorption spectroscopy, fluorimetry, circular dichroism, dynamic light scattering) in the laboratory. The candidate is expected to have competences in protein chemistry and structural biology, in particular X-ray crystallography.

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