

Post-doctoral position: Structure and dynamics of Mitochondrial carriers

Position: Post-doctoral researcher

Location: IBS, Grenoble, France

Contract Duration: 18 months

Starting date of the contract: February or March 2011

A post-doctoral position is available to join the group of Pr. E. Pebay-Peyroula at IBS (Institut de Biologie Structurale, Grenoble, <http://www.ibs.fr>). The group explores functional and structural aspects of membrane proteins mainly focussing on the mitochondrial carriers family.

The research emphasis is in deciphering atomic details of these proteins combining X-crystallography with functional assays, biophysical characterizations, molecular dynamics simulations, spectroscopy and microscopy techniques.

The candidate will be expected to participate in the characterization of the molecular mechanism and supramolecular arrangement of the carriers as well as in protein-protein interaction studies.

This 18 months position is open starting early 2011.

The candidate should hold a PhD in biochemistry, molecular biotechnology, physical chemistry, or related discipline. Prior knowledge and experience in optical spectroscopy and microscopy techniques (confocal and multiphoton, FRET...), and expertise in basic molecular biology techniques are mandatory. Experience in working with cell cultures would be an advantage and experience on membrane proteins will be considered as a plus but not essential.

Applications are only considered from candidates with no more than five years of research experience including PhD and who have not resided in France the last years.

Additional information and details regarding the laboratory or the project in question can be obtained by contacting Pr. Eva Pebay-Peyroula (eva.pebay-peyroula@ibs.fr) and Dr. Stephanie Ravaud (stephanie.ravaud@ibs.fr).

If you are interested in joining our team at IBS, please send your CV and the names of two references to Pr. Eva Pebay-Peyroula (eva.pebay-peyroula@ibs.fr) and Dr. Stephanie Ravaud (stephanie.ravaud@ibs.fr).

E.Pebay-Peyroula, C. Dahout-Gonzalez, R. Kahn, V. Trézéguet, G.J.-M. Lauquin and G. Brandolin (2003) *Nature* 426, 39-44.

H. Nury, C. Dahout-Gonzalez, V. Trézéguet, G. Lauquin, G. Brandolin, E. Pebay-Peyroula (2006) *Annual Review of Biochemistry*, **75**, 713-741.

F. Dehez, E. Pebay-Peyroula and C. Chipot (2008) *Journal of the American Chemical Society*, **130**, 12725-33.

E.-M. Krammer, S. Ravaud, F. Dehez, A. Frelet-Barrand, E. Pebay-Peyroula and C. Chipot (2009) *Biophysical Journal*, **97**, L25-27.