



Postdoctoral Position on NMR of Poly-Glutamine Homo-Repeat Regions in Huntingtin

Centre de Biochimie Structurale (Montpellier-France)

A 2-year post-doctoral position funded by the European Research Council (ERC) is available to work in the “*Highly Flexible Proteins*” group lead by Pau Bernadó at the *Centre de Biochimie Structurale* (CBS) in Montpellier (France).

Project: Huntington’s Disease (HD) is a deadly neurodegenerative pathology caused by the extension of the poly-Glutamine tract of the huntingtin protein. The project aims at establishing the structural bases of HD by applying NMR to samples produced with advanced chemical biology tools recently developed in the group that enable the residue-specific isotopic labelling within homo-repeats.

Candidate: The successful candidate should have a PhD in chemistry, biology or physics and a solid background in solution state biomolecular NMR spectroscopy. Experience in protein expression and purification is strongly recommended. Knowledge in other biophysical techniques such as SAXS or computational methods will be favourably considered.

Environment: The CBS is a dynamic research institute with an outstanding infrastructure covering all techniques for structural biology and biophysics including NMR, X-ray crystallography, cryo-electron microscopy, advanced fluorescence and super-resolution microscopes, single-molecule manipulation, molecular and cell biology, and high-performance computation.

Montpellier is a major biology area with a focus on basic research, biomedicine, plant biology and environmental science. Its science drive, the beauty of the region, its high quality of life, and the short commute to other major regional research areas (Paris, Barcelona, Toulouse, Marseille) make it an ideal destination for scientists from all over the world.

Application: Applications and informal queries about the project and the lab should be addressed to Pau Bernadó (pau.bernado@cbs.cnrs.fr). Interested candidates should send their CV, a cover letter describing their research interests and motivation, and the names of people willing to write a recommendation letter.

Some Related Publications of the Group:

Urbanek A, et al. *Angewandte Chemie*, 2018, *in press*.

Herranz-Trillo F, et al. *Structure*, 2017, 25, 5-15.

Cordeiro TN, et al. *Nucleic Acids Research* 2017, 45, 1501-1515.

Cordeiro TN, et al. *Current Opinion in Structural Biology*, 2016, 42, 15-23.

De Biasio A, et al. *Nature Communications* 2015, 6, 6439.