PhD fellowship on Epilepsy in Grenoble (France)

A 3-year PhD fellowship is open at the Grenoble Institute of Neuroscience starting on October 2006, in the team entitled « Dynamics of epileptic synchronous networks » led by Antoine Depaulis. The research project will focus on a new experimental approach on deep brain stimulations in the treatment of epilepsies involving animal models, high-frequency stimulations, EEG, signal analysis and functional NMR imaging. This programme is funded by the Région Rhone-Alpes and will be carried out at the Grenoble Institute of Neuroscience (http://neurosciences.ujf-grenoble.fr/).

The group of A. Depaulis has demonstrated the critical role of the basal ganglia in the control of epileptic seizures in animal models and the possibility to interrupt seizures by high-frequency stimulation of the subthalamic nucleus or the substantia nigra. This work has led to the first clinical trials in epileptic patients in Grenoble. To further explore the possibility to control epileptic seizures by a « close loop » device and to develop new clinical applications, we are looking for either a biologist with experience in programming and/or electronic or a physicist with training in Neuroscience.

The candidate needs to have completed a Master in Biology, Medical engineering or Physics in June 2006. His/her PhD work will be supervised by both Antoine Depaulis (U704 Inserm-UJF, Grenoble) and Olivier David (U594 Inserm-UJF, Grenoble). A good sense of autonomy and plurisciplinarity is required.

CV + references should be sent before July 31 to Antoine Depaulis (antoine.depaulis@ujf-grenoble.fr).