

POST DOCTORAL POSITION IN NEUROSCIENCES

A post-doctoral position is available for a full-time, 2 years fixed term, funded by the Neurodis foundation at SBRI, INSERM U846 in Bron (Lyon - France), within the Team Neurobiology of executive functions directed by E. Procyk (www.sbri.fr).

Job description.

SBRI (Stem Cell and Brain Research Institute) devotes its research to the understanding of the fundamental principals of brain development, structure, and function and uses fundamental research to develop preclinical studies of neurodegeneration and brain repair. The team Neurobiology of Executive Functions studies the neural correlates of adaptive cognitive functions using system neuroscience methods. One aspect recently approached by the team is the integrative role of prefrontal cortico-cortical relationships and cortical aminergic input for adaptive processes in non-human primates. Within the institute this program of research also aims at studying the progressive impact of early dopaminergic degeneration on cortical information processing.

The present project concerns the characterisation and longitudinal follow-up of cognitive performances and of frontal neurophysiological markers before, during, and after the induction of Parkinsonism in a non-human primate model, and finally the use of such markers to evaluate a cell therapy.

The objectives are :

- 1- To obtain a fine longitudinal description of cortical oscillatory patterns related to voluntary action during a learning protocol as markers of adaptive functions.
- 2- To show the progressive co-evolution and possibly rearrangements of neurophysiological and behavioral markers during and after low dose MPTP treatment.
- 3- To monitor and describe brain reorganizations - based on the predefined markers- following intracerebral grafting.

Requirements:

The candidate should have a PhD (completed **before** sending his/her application) in neurosciences be highly motivated and independent. Prior research experience with primate behavioral training and with any neurophysiological approach is required. The candidate is expected to have prior experience with collaborative studies, international scientific communication, and responsibility in conducting research project.

Expected start date: November 1st 2009

Gross income: 30.000 euros/year

Candidates should send CV (with list of representative publications) and the name of 3 referees by mail to: contact@fondation-neurodis.org

Application deadline in PDF format: September 20, 2009, shortly followed by an interview organized by the NEURODIS Foundation (phone conference will be possible)

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For further administrative or financial information: contact@fondation-neurodis.org