

## **INSERM UMR 745**

### **Biothérapie et Génétique des maladies Dégénératives et Prolifératives du Système nerveux**

**Faculté de Pharmacie, Université René Descartes.**

Our group is developing brain gene therapy strategies for neurodegenerative diseases : genetic leukodystrophies (current clinical trial in adrenoleukodystrophy; last preclinical steps before clinical application in Metachromatic Leukodystrophy), Alzheimer and Huntington diseases. We use gene transfer vectors to investigate physiopathology and demonstrate efficacy of therapeutic targets. Our ultimate goal is to complete all preclinical steps toward clinical application.

### **Three years Post-doctoral position at the French Institute for Health and Medical research (INSERM) UMR 745**

The Biotherapy and Genetics of degenerative and proliferative diseases of the nervous system is located at the Faculty of Pharmaceutical sciences, University René Descartes. In Paris.

Our group is using viral gene transfer technologies to study the physiopathology and develop brain gene therapy strategies for neurodegenerative diseases from preclinical steps to clinical applications: genetic leukodystrophies (current clinical trial in adrenoleukodystrophy; last preclinical steps before clinical application in Metachromatic Leukodystrophy= MLD), Alzheimer (AD) and Huntington diseases (HD). Our ultimate goal is to complete all preclinical steps toward clinical application.

After injection of recombinant viral vector, the candidate will study gene expression, diffusion of the vector and clinical consequences on animal models (mice and primates) , with particular focus on MLD but he will also be implicated in projects concerning AD and HD.

Candidate should have a strong background in neuroscience, particularly in cell biology, neuropathology, animal models and in gene transfer technologies and viral vectors (particularly in AAV) Expertise in molecular biological techniques, histological and immunohistological procedures, fluorescence microscopy, small animal surgery and dissections of rodent brain regions is required. Agreement to experiment on living animals is a plus. The candidate must have demonstrated strong abilities in leading a research team, autonomy, initiative in carrying out experiments and sense of responsibilities.

**To apply, please send a letter of motivation and CV (via e-mail) including a brief description of research interests, list of publications, and names and e-mail addresses of at least two references to:**

**Nathalie cartier**

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