POSITIONS OPEN FOR HOSTING PhD STUDENTS or POST-DOCS

in Spanish and Turkish labs

Deadline: Thursday 23rd February 2012

Who can apply and for how long?

- PhD students & post-doc working in a N€uromed laboratory in Algeria, Egypt, Morocco (see website: *www.neuromedproject.eu*) who wish to receive research training in another N€uromed lab in Spain or Turkey.

- The training period is up to 6 months. It may be renewed ONCE upon evaluation.

In which lab can you apply?

Applicants may choose up to 2 Labs among the following list:

1. LabHuman, Universidad Politécnica de Valencia (UPVLC) in Valencia, Spain
2. Centro de Investigación Príncipe Felipe (CIPF) in Valencia, Spain
3. Yeditepe University in Istanbul, Turkey
4. Erciyes University in Kayseri, Turkey

How to apply:

Application must be submitted by the applicant, and should include:

- An application form filled and *signed by the candidate, the sending supervisor and the host supervisor*
- A detailed CV of the applicant

Calendar:

- Thursday 23rd February 2012: deadline for applications
- 24th to 29th February 2012: evaluation of the applications by the IAB
- Around 7th March 2012: inform applicants of the results
- Starting date of the exchanges: as early as possible in April 2012, but NO LATER than 3 months after acceptation letter.

- Selected applicants will be offered the return flight ticket, a medical insurance and a stay allowance of 800€/month by N€uromed.

Applications must be submitted through internet on N€uromed website précising the project code: www.neuromedproject.eu/opportunities.htm

DEADLINE: Thursday 23rd February 2012.

In case of any problem, please contact: Joumana Sweiss (Joumana.SWEISS@univ-amu.fr)

www.neuromedproject.eu– Contact : driss.boussaoud@univ-amu.fr (Coordinator), Joumana.Sweiss@univ-amu.frm (Project Manager) – Phone : +33 4 91 32 44 88 – 0033-(0)6 22 26 37 52

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The following projects are offered by individual labs within the N€uroMed receiving institutions, and calls are open as indicated. Please do contact the group leader of the project prior to application, and mention the project code when submitting an application. The application forms and evaluation criteria can be found on the N€uroMed web page (http://www.neuromedproject.eu).

PROJECT CODE:	**NM 01**
PROJECT DETAILS: (Max 5 lines)	This is a mini-project as part of a larger research project in the laboratory, therefore an exchange period of up to **6 months** is expected. The applicants will be required to understand and how to acquire EEG signals with monitoring equipment and will help the senior researchers to obtain and process these signals in Neuromarketing research studies. Tentative start date: **June 2012**
POSITION OPEN:	☒ X PhD ☐ X Postdoc
BACKGROUND EXPECTED: (Max 10 lines)	Basic knowledge and understanding of Biological signal (specially EEG) . Acquiring techniques and Processing Methods . Knowledge to work with tools like Matlab and Experience to work with sensors.
EXPERTISE TRANSFERRED : (Max 5 lines)	A new approach to work with EEG signal in neuromarketing studies
CONTACT :	(Name) **Jaime Guixeres** (E-mail) jguixeres@labhuman.i3bh.es

PROJECT CODE:	**NM 02**
PROJECT DETAILS: (Max 5 lines)	The project will be part of a larger research project that is already in progress in the laboratory, focused on the proposal and evaluation of signal processing methods for the analysis of blood flow velocity signals recorded using Transcranial Doppler monitoring during the exposure to virtual reality experiments. An exchange period of **6 months** is expected to evaluate the data recorded during a experiment about emotional induction. The applicant is expected to cooperate also in the preparation of a multidisciplinary project to study Parkinson that has been proposed by the technical partners of Neuromed. Tentative start date: **March 2012**

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POSITION OPEN:	☒ X PhD ☐ X Postdoc
BACKGROUND EXPECTED: (Max 10 lines)	Technical background. Knowledge about the basis of Transcranial Doppler Monitoring. Knowledge of signal processing methods. Use of Matlab to program algorithms for the analysis of blood flow velocity signals. Basic knowledge about virtual reality hardware and software.
EXPERTISE TRANSFERRED : (Max 5 lines)	Algorithms for the analysis of physiological signals. Virtual reality applications in neuroscience
CONTACT :	(Name) **Beatriz Rey** (E-mail) brey@labhuman.i3bh.es

PROJECT CODE:	**NM 03**
PROJECT DETAILS: (Max 5 lines)	The project consists in the characterization of behavioural alterations in animal models of hepatic encephalopathy and analysis of the mechanisms involved. The applicant will participate in the surgical process to obtain animal model of hepatic encephalopathy, in the realization of different behavioural tests and mainly in the analysis of alterations in circadian rhythms of activity. Moreover, blood microdialysis in rat *in vivo*, HPLC, immunohistochemistry and western blot analysis will carried out to study molecular mechanisms involved in alterations of circadian rhythms in hepatic encephalopathy. The exchange may be of 6 moths at least. Tentative start date: **April 17, 2012**
POSITION OPEN:	☐X PhD ☐ X Postdoc
BACKGROUND EXPECTED: (Max 10 lines)	Basic expertise in handling of rats, western blotting and theoretical basis of circadian rhythms.
EXPERTISE TRANSFERRED : (Max 5 lines)	Surgical processes in rats (bile duct ligation), behavioural tests, brain dissection and tissue homogenization, immunohistochemistry, western blot, blood microdialysis *in vivo*, HPLC and circadian rhythms analysis.
CONTACT :	(Name) **VICENTE FELIPO** (E-mail) vfelipo@cipf.es

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PROJECT CODE:	**NM 04**
PROJECT DETAILS: (Max 5 lines)	The applicants will collaborate in a project to study the contribution of neuroimmflamation to neurological alterations in animal models of hepatic encephalopathy. They will carry out different immunohistochemical techniques to characterize neuroimmflamation and their reversion after different pharmacological treatments in rats. Tentative start date: **April 17, 2012**
POSITION OPEN:	☐X PhD ☐ X Postdoc
BACKGROUND EXPECTED: (Max 10 lines)	Basic expertise in immunohistochemical techniques (rat perfusion, brain slice preparation and immunohistochemistry) and theoretical knowledge of neuroimmflamation.
EXPERTISE TRANSFERRED : (Max 5 lines)	Immunochemical analysis of neuroimmflamation, including analysis of microglia activation, co-localization for cell type identification and signal transduction pathways activation.
CONTACT :	(Name) **VICENTE FELIPO** (E-mail) vfelipo@cipf.es

PROJECT CODE:	**NM 05**
PROJECT DETAILS: (Max 5 lines)	This is a mini-project as part of a larger research project in the laboratory, therefore an exchange period of around 2-3 months is expected. The applicants will be required to carry out PCR of various putative target promoters of Pea3 for cloning into luciferase vectors. Tentative start date**: June 2012**
POSITION OPEN:	☐X PhD ☐ X Postdoc
BACKGROUND EXPECTED: (Max 10 lines)	Basic expertise in cell culture techniques, and at least some theoretical knowledge of the principles of PCR.
EXPERTISE TRANSFERRED : (Max 5 lines)	Cloning and luciferase assays
CONTACT :	(Name) **ISIL KURNAZ** (E-mail) iakurnaz@yeditepe.edu.tr

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PROJECT CODE:	**NM 06**
PROJECT DETAILS: (Max 5 lines)	This is a mini-project for training purposes only, therefore only a maximum exchange period of 2 months is expected. The applicants will be required to carry out real-time PCR of various genes in tumor cell lines in our laboratory to determine changes in expression levels. Tentative start date: **June 2012**
POSITION OPEN:	☐X PhD ☐ X Postdoc
BACKGROUND EXPECTED: (Max 10 lines)	Basic expertise in cell culture techniques, and at least some theoretical knowledge of the principles of PCR.
EXPERTISE TRANSFERRED : (Max 5 lines)	real-time PCR (in particular SYBR green method and Bio-Rad iCycler)
CONTACT :	(Name) **ISIL KURNAZ** (E-mail) iakurnaz@yeditepe.edu.tr

PROJECT CODE:	**NM 07**
PROJECT DETAILS: (Max 5 lines)	This is a mini-project as part of a larger research project in the laboratory, therefore an exchange period of up to 6 months is expected. The applicants will be required to use COPASI biochemical simulation software to model the interactions between Elk-1, SRF, Egr-1 and HIF-1 under normoxic and hypoxic conditions in neurons. Tentative start date: **any time**
POSITION OPEN:	☐X PhD ☐ X Postdoc
BACKGROUND EXPECTED: (Max 10 lines)	Basic knowledge and understanding of mathematical and biochemical modeling.
EXPERTISE TRANSFERRED : (Max 5 lines)	COPASI simulation package (freely available at www.copasi.org)
CONTACT :	(Name) **ISIL KURNAZ** (E-mail) iakurnaz@yeditepe.edu.tr

PROJECT CODE:	**NM08**
PROJECT TITLE:	Effects of melatonin on long-term potentiation and learning test

	performance
PROJECT DETAILS: (Max 5 lines)	This research project requires an exchange period of 6 months at least. The applicants should be required to be familiar with rats. Tentative start date: **April 2012**
POSITION OPEN:	□X PhD □ X Postdoc
BACKGROUND EXPECTED: (Max 10 lines)	Interest in electrophysiology, and maybe some theoretical knowledge of the principles of electrophysiological recordings.
EXPERTISE TRANSFERRED : (Max 5 lines)	In vivo recording of long-term potentials from rat brain Behavioral learning and memory tests in rats
CONTACT :	(Name) **A Seda Artis** (E-mail) aseda@yahoo.com

PROJECT CODE:	**NM09**
PROJECT TITLE:	Role of Galectin-1 in disturbed spatial learning performance induced by sleep deprivation in rats
PROJECT DETAILS: (Max 5 lines)	This research project requires an exchange period of 6 months at least. The applicants should be required to be familiar with rats. Tentative start date: **April 2012**
POSITION OPEN:	□X PhD □ X Postdoc
BACKGROUND EXPECTED: (Max 10 lines)	Interest in electrophysiology, and maybe some theoretical knowledge of the principles of electrophysiological recordings.
EXPERTISE TRANSFERRED : (Max 5 lines)	In vivo recording of long-term potentials from rat brain Behavioral learning and memory tests in rats Immunohistochemistry
CONTACT :	(Name) **A Seda Artis** (E-mail) aseda@yahoo.com

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