

## Position for Early Stage Researcher (36 months)

### **Aim of Project:**

Our research focuses on the role of glial cells in sensory ganglia in chronic pain. We have discovered that in animal pain models (inflammatory and neuropathic) coupling between these glial cells increased dramatically. We also found that the glia have purinergic receptors, which are upregulated in the pain models. Our working hypothesis that these two changes alter neuron-glia interactions in a way that increases neuronal electrical activity, thus contributing to pain. The next step is to understand neuron-glia interactions in sensory ganglia and to understand how they change in pain models.

### **Methods:**

We are using electrical recordings, calcium imaging, dye coupling, immunohistochemistry, and behavioral methods. Additional methods used in collaboration with other laboratories include various molecular assays and electron microscopy. We aim to adopt these methods in our laboratory.

### **Candidate profile:**

MSc or diploma in biology or biomedical engineering (allowing to start a doctorate / Ph.D. thesis)

Good knowledge in neurobiology.

Willingness to work with animals.

Good fluency in spoken and written English.

### **How to apply & contact data:**

Please send your CV and a letter of intent to Prof. Menachem Hanani at [mh.hadas@eduglia.eu](mailto:mh.hadas@eduglia.eu)

Further information on the Edu-GLIA Initial Training Network can be found at <http://www.eduglia.eu>

Contact: Prof. Menachem Hanani  
Hebrew University-Hadassah Medical Center  
Mount Scopus, Jerusalem 91240  
Israel



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## :: Description

FENS invites all laboratories, institutes or companies with vacancies to send in a job description.

The Job Market website presents an overview of available jobs for PhD students, post-docs, up to senior staff positions and professorships. This service is free to all neuroscientists.

FENS members receive a monthly e-mail alert with a short description of new jobs.

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### Job details

Job #23691, added on 02/08/10, 16:46:37

#### Job Information

Ph.D. Student in Jerusalem/Israel  
 Start of 2010-04-01  
 employment:  
 Application n/a  
 deadline:  
 Duration: 3 years  
 Institution: Hebrew University  
 Department: Hadassah Medical Center

#### Contact Information

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 Website: [http://www.eduglia.eu/files/documents/Edu-GLIA\\_Hanani\\_2009-10-02.pdf](http://www.eduglia.eu/files/documents/Edu-GLIA_Hanani_2009-10-02.pdf)

#### Job Description

We invite applications for a Ph.D. Student position being part of the Marie Curie Initial Training Network Edu-GLIA (<http://www.eduglia.eu>), funded by the European Commission.

Each Edu-GLIA project aims at elucidating one glia-neuron interaction within the central or peripheral nervous system. The goal of the project at the Hebrew University is to study the role of glial cells in sensory ganglia in chronic pain. We have discovered that in animal pain models coupling between these glial cells increased dramatically. We also found that the glia has purinergic receptors, which are upregulated in the pain models. Our working hypothesis is that these two changes alter neuron-glia interactions in a way that increases neuronal electrical activity, thus contributing to pain. The next step is to understand neuron-glia interactions in sensory ganglia and to understand how they change in pain models.

#### Methods:

Electrical recordings, calcium imaging, dye coupling, immunohistochemistry, and behavioral methods; additional methods used in collaboration with other laboratories include various molecular assays and electron microscopy. We aim to adopt these methods in our laboratory.

#### Your qualifications:

Good knowledge in neurobiology.  
 Willingness to work with animals. Good fluency in spoken and written English.

#### The EU has strict eligibility criteria:

- Candidates
- Should have less than 4 years of research experience after graduation with a degree (M.Sc., diploma or equivalent) allowing to start a Ph.D. thesis
  - Can be nationals of any country other

than that of the host institution

- Must not have resided or carried out their main activity in the country of the host institution for more than 12 months in the 3 years immediately prior to their recruitment
- Should not possess a Ph.D.

Please send your CV, a letter of intent and the name of 2 referees to Prof. Menachem Hanani at mh.hadas@eduglia.eu

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