

## **Postdoctoral Position in Development Neurobiology Unit at the GIGA-Neurosciences, Liège, Belgium**

The GIGA biomedical research center of the University of Liège (<http://www.giga.ulg.ac.be/>) is seeking for a Post Doctoral fellow for a position in Development Neurobiology Unit at the GIGA-Neurosciences, Liège, Belgium.

Please follow this link to discover the GIGA: [www.giga.ulg.ac.be/videos](http://www.giga.ulg.ac.be/videos)

Established in 2007 at the University of Liège, GIGA is an interdisciplinary research center in biomedical sciences whose mission is advanced medical innovation. The institute encompasses more than 500 members (PI, senior researchers, post-doctoral scientists, thesis students, technicians) with expertise in medical genomics, in silico medicine, neuroscience, cancer, infection and immunity, and cardiovascular sciences.

To meet the increasing demands of performing multidisciplinary research, the GIGA offers Core facilities including imaging, molecular biology, proteomics/metabolomics, histology, aquatic facility (zebrafish), mouse facility, etc.

GIGA also offers business facilities and a training center. The center offers an extraordinary range of services on the same site, where researchers, clinical doctors, doctoral students, students and private sector actors meet.

GIGA is the only Belgian research center directly integrated within a university hospital, making it a major player in translational research where links between researchers and doctors are at the heart of the research activity.

### **Function**

We are looking for one highly motivated post-doctoral candidate, with PhD in cell biology, molecular biology or genetics to join our research group in the Development Neurobiology Unit at the GIGA-Neurosciences, Liège, Belgium ([https://www.giganeurosciences.uliege.be/cms/c\\_4213415/en/portail-giganeuro](https://www.giganeurosciences.uliege.be/cms/c_4213415/en/portail-giganeuro))

We offer comprehensive training in an innovative field of neuroscience, a highly stimulating environment and state-of-the-art laboratories featuring the latest cell reprogramming, inner ear cell differentiation and genome editing technologies.

### **Missions**

The discovery that somatic cells can be reprogrammed into induced pluripotent stem cells (iPSCs) allows generation of unrestricted numbers of specific types of autologous cells. This discovery has fundamentally changed the stem cell field and gave new prospects for personalized medicine, drug targeting and disease modelling. We have access to fibroblasts of patients with specific hereditary deafness, which will be converted into iPSCs, characterized and differentiated into specialized inner ear cell types in vitro. Our goal is to decipher the mechanisms leading to deafness with the ultimate goal to improve therapeutic approaches.

To reach this aim we have the following two objectives:

- 1) In vitro characterization of generated iPS cell lines from patients
- 2) Obtaining wild-type isogenic cell lines using Crispr-Cas9 genome editing technique

Assessment of phenotypic differences between WT and mutated iPS cells that will be differentiated towards inner ear cell fate

### **Profile**

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Applicants must have a Ph.D. in a relevant discipline and interest and experience in molecular and cellular biology would be an advantage. Excellent written and verbal English communication skills are required. Preference will be given to candidates with a track record of peer-reviewed publications.

### **We offer**

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Candidate will have the opportunity to have an attractive 2-years post-doc grant.

A dynamic working environment, a competitive remuneration package, a stimulating scientific surrounding in a young, motivated team

### **How to apply?**

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Outstanding candidates should apply by email to Dr. Brigitte Malgrange (bmalgrange@uliege.be) and rh.giga@ulg.ac.be include a CV, description of your specific interest in our research program, and contact information for two references.

Deadline for application: 21st April 2019.