



BIOMEDICAL SCIENCE FOR THE BENEFIT OF SOCIETY

“Postdoctoral Position at the Cellular and Systems Neurobiology lab”
Centre for Genomic Regulation (CRG)

The Institute

The Centre for Genomic Regulation (CRG) is an international biomedical research institute of excellence, based in Barcelona, Spain, with more than 400 scientists from 44 countries. The CRG shares principles of an interdisciplinary, motivated and creative scientific team that is supported by high-end and innovative technologies and a flexible and efficient administration.

In November 2013, the Centre for Genomic Regulation (CRG) received the '[HR Excellence in Research](#)' logo from the European Commission. This is a recognition of the Institute's commitment to developing an HR Strategy for Researchers, designed to bring the practices and procedures in line with the principles of the [European Charter for Researchers](#) and the [Code of Conduct for the Recruitment of Researchers](#) (Charter and Code).

[Please, check out our Recruitment Policy](#)

The role

We are looking for a junior postdoctoral position at the Cellular and Systems Neurobiology lab to work on Down syndrome comorbidities, a project led by Dr Mara Dierssen in the context the “GO-DS21” grant founded by the European Commission.

The work of the candidate will be devoted to characterize brain mechanisms involved in obesity and intellectual disability comorbidities. Specifically we will study stress-related overeating and its consequences at the cognitive level in Down syndrome mouse models. We will test the impact on neuronal functionality of environmental challenges (obesogenic diet, stress, exercise) in animal models and use genetic approaches to identify candidate genes that could affect the risk of comorbidities.

The position requires a candidate with high experience in electrophysiology with mouse brain slices and calcium imaging, as well as immunostaining and confocal imaging. We are looking for highly motivated and organized candidates with good communication skills, capable of working in a group but also with a high degree of work autonomy and interest to form students.

About the lab

The Dierssen lab is centred on understanding cognition and behaviour and their perturbation in intellectual disability. We are an interdisciplinary team of physicists, bioinformaticians and experimental biologists, and we focus on data collection (behaviour, 3D imaging, genomic data) of many variables of the system (longitudinal behavioural analysis, population based analysis in neuronal networks, gene expression patterns). We take advantage of computer modelling and bioinformatics analysis (gene networks, neuronal network modelling, etc.) to tackling classical unresolved questions in the field.

Whom would we like to hire?

Professional experience

Must Have

- You have experience in immunostaining and confocal imaging





- You have experience in electrophysiology in brain slices using patch-clamp techniques.
- You have experience in calcium imaging characterization.

Education and training

- You hold a Phd in disciplines such as Biology, Medicine, Pharmacy, or Biochemistry

Languages

- You are proficient in English

Competences

- You are a highly motivated and organized candidate
- You are capable of working in a group
- You have a high degree of work autonomy

The Offer – Working Conditions

- **Contract duration:** 1 year renewable up to 3 years
- **Estimated annual gross salary:** Salary is commensurate with qualifications and consistent with our pay scales.
- **Target start date:** November, 2020

We provide a highly stimulating environment with state-of-the-art infrastructures, and unique professional career development opportunities. To check out our training and development portfolio, please visit our website in the [training section](#).

We offer and **promote a diverse and inclusive environment** and welcomes applicants regardless of age, disability, gender, nationality, race, religion or sexual orientation.

The **CRG is committed to reconcile a work and family life** of its employees and are offering extended vacation period and the possibility to benefit from flexible working hours.

Application Procedure

All applications must include:

1. A motivation letter addressed to Dr. Mara Dierssen
2. A complete CV including contact details.
3. Contact details of two referees.

All applications must be addressed to Dr. Mara Dierssen and be submitted online on the CRG Career site - <http://www.crg.eu/en/content/careers/job-opportunities>

Selection Process

- **Pre-selection:** The pre-selection process will be based on qualifications and expertise reflected on the candidates CVS. It will be merit-based.





- **Interview:** Preselected candidates will be interviewed by the Hiring Manager of the position and a selection panel if required.
- **Offer Letter:** Once the successful candidate is identified the Human Resources department will send a Job Offer, specifying the start day, salary, working conditions, among other important details.

Deadline: Please submit your application 30th September, 2020.



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