



BIOMEDICAL SCIENCE FOR THE BENEFIT OF SOCIETY

“Lab Technician - Molecular Biology & Mice colony management”
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 is composed by an interdisciplinary, motivated and creative scientific team which is supported both by a flexible and efficient administration and by high-end and innovative technologies.

In April 2021, the Centre for Genomic Regulation (CRG) received the renewal of the '[HR Excellence in Research](#)' Award 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 seeking an experienced Lab Technician to join the Epitranscriptomics and RNA Dynamics group, to provide support in wet lab experiments related to the study of the role of RNA modifications (the “epitranscriptome”) in sperm RNAs. Specifically, we will study how different dietary intakes (e.g. high fat diet) affect the sperm RNA populations and their RNA modifications, and how these changes in sperm RNA can lead to altered metabolic profiles (e.g. altered glucose tolerance tests and insulin tolerance tests) in the next generations.

The lab technician will be responsible for handling the mice colonies (breeding, setting up diets), collecting mice tissue samples (mainly testis and epididymis), extraction of sperm cells from epididymis (swim-up techniques, FACS), extraction of sperm RNA populations, and analysis of the RNA samples using diverse molecular biology techniques, including next- and third-generation sequencing technologies (library preparation, Oxford Nanopore sequencing, Illumina small RNA sequencing) as well as molecular biology techniques (western blot, qPCR). In addition, dysregulated RNA candidates will be microinjected to zygotes, in collaboration with the Tissue Engineering Facility at CRG.

The candidate will also contribute to the general organization and maintenance of the lab supplies, coordination of laboratory safety and inventory.

The candidate will provide support to current ongoing research projects in the lab, as well be involved in the development of novel techniques in close collaboration with other lab members.

The candidate may also have a smaller project of their own to be discussed with the PI related to the research lines of the lab, if this is of interest to the candidate.





About the lab

Our lab is focused on deciphering the role that RNA modifications play in a large variety of cellular contexts, including the development of novel technologies to map RNA modifications. In our lab, we are employing a combination of experimental (RNASeq, RIP-Seq polysome profiling, mouse/cell knockouts, Oxford Nanopore direct RNA sequencing) and computational techniques (NGS data analysis, algorithm development, machine learning), to unveil the secrets of three post-transcriptional regulatory layers: the epitranscriptome, RNA structure and ribosome specialization.

Whom would we like to hire?

Professional experience

To be successful in this application, you will be an analytical thinker with a strong background **Molecular Biology** (preferably related to RNA biology) and proven experience in in **Mice Colony management** and **Animal Manipulation**.

You will also possess the following key skills and attributes:

Must Have

- You have minimum of 5 years of experience in a laboratory performing Molecular Biology experiments (western blot, qPCR, RNA extraction, library preparation), preferably in RNA biology
- You have at least of 3 years in mice colony management and/or mice manipulation (tissue collection, anesthesia, mice breeding)

Desirable but not required/ Nice to have

- You have experience with Glucose Tolerance Tests (GTT) and/or Insulin Tolerance Tests (ITT) in mice
- You have experience in sperm RNA extraction techniques and/or sperm manipulation
- You have experience with zebrafish management, breeding and collection of embryos
- You have experience with Oxford Nanopore sequencing
- You have a background in RNA biology and/or manipulation of RNA samples
- You have experience in microinjections in zygotes

Education and training

- You hold a BSc, MSc and/or PhD degree in Molecular Biology, Biology, Biochemistry or similar field.
- You hold a title for Animal Experimentation that is recognized by the Catalan Government

Languages

- You must be fluent in oral and written **English**
- You must be fluent in oral and written **Spanish or Catalan**





Competences

- You have excellent analytical and problem-solving skills
- You have the capacity for carrying out duties under minimal supervision
- You have the drive and commitment to produce high quality experimental outcomes
- You have highly developed organization skills

The Offer – Working Conditions

- **Contract duration:** 2 years (renewable up to 7 years)
- **Estimated annual gross salary:** Salary is commensurate with qualifications and consistent with our pay scales
- **Target start date:** March 2022

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, ethnicity, religion, sexual orientation or gender identity.

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. Eva Maria Novoa.
2. A complete CV including contact details.
3. Contact details of two referees.

All applications must be addressed to Dr. Eva Maria Novoa 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 by February 15th, 2022.





Suggestions: The CRG believes in **ongoing improvement** and promotes a **culture of feedback**. This is one of the reasons we have in place, at your disposal as a candidate, a mechanism to gather your suggestions/complaints concerning your candidate experience in our recruitment processes. Your feedback really matters to us in our aim at creating a **positive candidate journey**. You can make a difference and help us improve by letting us know your suggestions through the [following form](#).



HR EXCELLENCE IN RESEARCH

