



BIOMEDICAL SCIENCE FOR THE BENEFIT OF SOCIETY

“Lab Manager – Epitranscriptomics and RNA Dynamics”
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 Manager** 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”) and general lab management. The techniques to be used will include third-generation sequencing technologies (library preparation, **nanopore sequencing**, RNA extraction), **molecular biology** techniques (western blot, qPCR), **cell culturing** (mostly mammalian), analysis of **protein translation** (ribosome profiling, polysome profiling).

The candidate will also be in charge of the general organization and maintenance of the lab supplies, coordination of laboratory safety and inventory, and placement of purchasing orders using Oracle system.

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 will also have a **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.

Our laboratory has been pioneer in the use of native RNA nanopore sequencing to study RNA modifications, including the development of novel algorithms to map and quantify RNA modifications using nanopore sequencing ([Liu et al, Nature Comm 2019](#); [Begik et al, Nature Biotech 2021](#)) as well as novel protocols to improve the applicability of nanopore technologies towards low-input patient-derived samples ([Smith et al, Genome Res 2020](#); [Begik et al, bioRxiv 2021](#)). Our lab is currently applying these novel





methods to decipher the biological functions of the ‘uncharted epitranscriptome’ ([Novoa et al, Nat Rev Mol Cell Biol 2017](#)) and to understand why and how the dysregulation of RNA modifications contributes to diverse human diseases ([Begik et al., Genome Biol 2020](#); [Jonkhout et al., RNA Biol 2021](#)), such as cancer, intellectual disabilities and diet-induced metabolic disorders that are passed via epigenetic intergenerational inheritance mechanisms.

We are a young lab of 10 people who are very enthusiastic about our work and care about having a good laboratory environment. We look for people that will create good lab dynamics and positive thinking. All candidates will also meet the lab members before being offered any formal offer.

Whom would we like to hire?

Professional experience

To be successful in this application, you will be an analytical thinker with a strong background in **Molecular Biology** (preferably related to **RNA biology**) with experience in Lab Management.

You will also possess the following key skills and attributes:

Must Have

- You have **5 years + experience in a laboratory performing Molecular Biology** experiments (western blot, qPCR, RNA extraction, library preparation) as well as cell culturing (preferably mammalian)

Desirable but not required/ Nice to have

- You have experience with **nanopore sequencing** and/or **RNA biology**
- You have experience with commonly used techniques for the analysis of RNA modifications (dot blot, RIP-Seq, miCLIP)
- You have experience with commonly used techniques for the analysis of protein translation (polysome profiling, ribosome profiling, SunSet experiments, in vitro transcription)
- You have experience in Lab Management, purchasing systems (e.g. Oracle), and Lab Safety procedures
- You have Animal Handling of Rodents (Functions A,B,C) valid in Spain

Education and training

- You hold a BSc, MSc and/or PhD degree in Molecular Biology, Biology, Biochemistry or similar field.

Languages

- You must be fluent in oral and written **English**
- If you have fluency in oral and written **Spanish or Catalan** it will be considered a plus

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 excellent **organizational** and **time-management** skills
- You have excellent **communication** skills
- You have the ability to contribute to preparation of written reports

The Offer – Working Conditions

- **Contract duration:** Technical and scientific activities contract linked to the project duration
- **Estimated annual gross salary:** Salary is commensurate with qualifications and consistent with our pay scales
- **Target start date:** As soon as possible

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 August 31st, 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

