

BIOMEDICAL SCIENCE FOR THE BENEFIT OF SOCIETY

"POSTDOCTORAL RESEARCHER"

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 September 2026, 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 highly motivated **Postdoctoral Researcher**, ideally with mixed/hybrid background in **Molecular Biology (wet lab) & Bioinformatics (dry lab),** to join the Epitranscriptomics and RNA Dynamics group (PI: Eva Novoa), to the study of the role and function of dynamic ribosomal RNA modifications (the "epitranscriptome") that we have recently identified using direct RNA nanopore sequencing technologies.

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., *Nat Methods* 2023) and in information-rich short RNAs (Lucas et al., *Nat Biotech* 2023). We are currently applying these novel methods to decipher the biological functions of the 'uncharted epitranscriptome' (Novoa et al, *Nat Rev Mol Cell Biol* 2017; Lucas and Novoa, *Nat Methods* 2023) 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), including cancer, intellectual disabilities and diet-induced metabolic disorders that are passed via epigenetic intergenerational inheritance mechanisms.

The candidate will be responsible for pursuing a project on rRNA modification evolution and relevance in disease, using mainly data generated using nanopore direct RNA sequencing.

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 experimenta
l (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.

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Whom would we like to hire?

Professional experience

To be successful in this application, you will be an analytical thinker with a background **Computational Biology** (ideally related to RNA biology) and advanced skills in **Bioinformatics** to perform data analyses.

You should possess the following key skills and attributes:

Must Have

- PhD in Molecular Biology, Biomedicine or similar
- Advanced experience in bioinformatic sequencing data analysis
- Experience in machine learning algorithm and its application
- You have published at least one primary research paper as (co-)first author (preprints accepted)
- Experience using GitHub and versioning of code

Desirable but not required/ Nice to have

- Background in RNA biology
- Nanopore data analysis experience
- Knowledge of NextFlow

Education and training

- You hold a PhD degree in Computational Biology, Molecular Biology, Biology, Biochemistry or similar field

Languages

- You must be fluent in oral and written **English**

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
- You have the ability to work as part of a team
- You have good academic writing skills

The Offer – Working Conditions

- **Contract duration:** Technical and scientific activities contract linked to the project (estimated duration 2 years)
- **Estimated annual gross salary:** Salary is commensurate with qualifications and consistent with our pay scales.
- **Target start date:** 1st March 2027 (flexible)

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.

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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 People department will send a Job Offer, specifying the start day, salary, working conditions, among other important details.

Deadline: Please submit your application by December 13, 2026.

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

EXCELENCIA SEVERO OCHOA

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