BIOMEDICAL SCIENCE FOR THE BENEFIT OF SOCIETY

"Bioinformatician- Gene Regulation, Stem Cells and Cancer Group"
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 November 2013, the Centre for Genomic Regulation (CRG) received 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 a talented and highly motivated Bioinformatician to join the Epitranscriptomics and RNA Dynamics group, to work on **algorithm development** and implementation of novel methods to accurately detect, map and **study RNA modification** dynamics from direct RNA Oxford Nanopore sequencing data. You will also perform **data analysis** of different nanopore sequencing datasets that are generated in the lab and study the interplay between RNA modifications and other regulatory layer (polyA tail dynamics, mRNA decay, splicing, etc).

The selected candidate will also provide bioinformatics support to the group to conduct functional integrative analysis of high-throughput '-omics' datasets generated by diverse high-throughput sequencing platforms (e.g. Illumina) related to the analysis of RNA modifications.

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

Must Have

- You have a strong background in Bioinformatics
- You have 3 years + experience in Programming, Computer Science and/or Data Analysis
- You have strong experience and scientific expertise in analysis of high-throughput sequencing data, including RNASeq

C/ Dr. Aiguader, 88
08003 Barcelona
Tel. +34 93 316 01 00
Fax +34 93 316 00 99
www.crg.es

Education and training

- You hold a BSc, MSc or undergraduate degree in Life Sciences, Computer Science, Bioinformatics or similar field
- You hold a MSc and/or PhD in Bioinformatics, Statistics or Computer Science. MSc/PhD in Molecular Biology or similar field are also encouraged to apply if a strong computational background exists

Languages

- You are fluent in English

Technical skills

- You are proficient in at least one programming language (preferably Pyhton and/or R)
- You have experience in handling Oxford Nanopore sequencing data

Competences

- You are an analytical thinker
- You are motivated by being part of the innovative and dynamic culture of the CRG
- You thrive in a culture of performace and empowerment
- 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 the ability to contribute to preparation of written reports and oral presentations

The Offer – Working Conditions

- **Contract duration:** 2 years with possibility of extension.
- **Estimated annual gross salary:** Salary is commensurate with qualifications and consistent with our pay scales.
- **Target start date:** October 1st, 2021.

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

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All applications must be addressed to Dr. Eva 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 30th August, 2021.

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

GOBIERNO DE ESPAÑA MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES

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