



BIOMEDICAL SCIENCE FOR THE BENEFIT OF SOCIETY

“PhD position in the Cell Signaling and Transcription 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

Our lab has an **open PhD position** in molecular and cancer biology at the Department of Gene Regulation Stem Cell and Cancer for a **highly motivated and talented candidate**. The position is for a period of 4 years, with the possibility of a 5th year extension.

About the lab

We offer a dynamic and international working environment. The exciting and multidisciplinary research project aims at advancing on the understanding on a family of mammalian protein kinases known as DYRK, whose members appear to be involved in key processes such as cell proliferation, differentiation and survival in mammalian cells. Alterations in the expression of several DYRK family members in humans have been associated to pathological processes ranging from genetic disorders (for instance, DYRK1A haploinsufficiency syndrome for mutations in DYRK1A or abdominal obesity-metabolic syndrome-3 for mutations in DYRK1B) to cancer. The project will use a broad range of techniques including RNA-seq, CHIP-seq, protein biochemistry and other molecular biology techniques.

Selected publications from our lab within the topic of this project are listed below:

- 1.- *Boni J, et al.* (2020) The DYRK family of kinases in cancer: molecular functions and therapeutic opportunities. *Cancers* 12: 2106.
- 2.- *Roewenstrunk J, et al.* (2019) A comprehensive proteomics-based interaction screen that links DYRK1A to RNF169 and to the DNA damage response. *Sci Rep* 9: 6014.
- 3.- *Luna J, et al.* (2019) DYRK1A modulates c-MET in pancreatic ductal adenocarcinoma to drive tumour growth. *Gut* 68: 1465-1476.
- 4.- *Arranz J, et al.* (2019) Impaired development of neocortical circuits contributes to the neurological alterations in DYRK1A haploinsufficiency syndrome. *Neurobiol Dis* 127: 210-222.
- 5.- *Rozen EJ, et al.* (2018) DYRK1A kinase positively regulates angiogenic responses in endothelial cells. *Cell Rep* 23: 1867-1878.
- 6.- *Di Vona C, et al.* (2015) Chromatin-wide profiling of DYRK1A reveals a role as a gene-specific RNA polymerase II CTD kinase. *Mol Cell* 57: 506-20.





Whom would we like to hire?

Professional experience

Desirable but not required/ Nice to have

- You have prior lab experience in the following areas:
 - Standard molecular techniques (such as cloning, PCR)
 - Standard protein analysis methods (Western blotting, immunoprecipitation, pull-down)
 - Mammalian cell culture

Education and training

- You hold a Master's degree in molecular biology, biochemistry or related fields by the time of applying or not later than March 2021

Languages

- You have a good level in written and spoken English

Competences

- You are a highly motivated and organized candidate
- You are eager to learn
- You have good communication skills
- You are a team worker

The Offer – Working Conditions

- **Contract duration:** 4 years PhD Position
- **Estimated annual gross salary:** Salary is commensurate with qualifications and consistent with our pay scales.
- **Target start date:** October-December, 2020

The successful applicant will enroll in the very active **CRG International PhD program**, which includes science and practical courses, a wide range of complementary skills training, access to many courses, mentoring via a thesis committee, and active participation in the organization of seminars, symposia and retreats.

We provide a highly stimulating environment with state-of-the-art infrastructures, and unique professional career development opportunities.

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 be written in English and include:

1. A motivation letter addressed to Dr Susana de la Luna.
2. A comment on a paper recently read providing a concise description of the value of the paper.
3. A complete CV including contact details.
4. Contact details of two referees.

All applications must be addressed to Dr. Susana de la Luna 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 September 20th, 2020

El proyecto al que hace referencia este contrato, ha sido financiado por la Agencia Estatal de Investigación.

