



Universitat
Pompeu Fabra
Barcelona

Departament
de Ciències Experimentals
i de la Salut



"Una manera de hacer Europa"

Date of publication of the job offer 09/07/18

Job title Postdoctoral position

Job description

The candidate will be involved in the generation of transgenic lines by CRISPR-Cas9 edition in zebrafish. The main aim of the study is to unveil how neurogenic capacity is allocated and specifically distributed within the embryonic hindbrain. We are interested in understanding how tissue compartmentalization and cell fate decisions take place in the Central Nervous System during embryonic development. We use the developing brain of the vertebrates - the hindbrain - as model to analyze the molecular mechanisms of tissue subdivision and cell differentiation. The project will focus in understanding the genetic mechanisms involved in the control of the cellular fate. Imaging tools (3D+time imaging), CRISPR/Cas9 and -OMICS technology will be combined to unveil the cell lineage of different progenitor populations within the hindbrain. The model system will be zebrafish embryos as they are amenable for functional analysis and imaging.

Project and Institution that finance the contract

MINECO-BFU2015-67400-P-PUJADES,C. (FEDER, UE) "DESCODIFICANDO LAS FRONTERAS DEL ROMBENCEFALO: DESDE SU FUNCION MECANICA A SU LINAJE CELULAR"

Official number reference

MINECO-BFU2015-67400-P-PUJADES,C. (FEDER, UE)

Information on the minimum requirements

We are seeking for highly motivated and enthusiastic candidates holding a PhD, with experience in developmental biology, molecular biology and imaging skills. Experience on zebrafish research, particularly on nervous system development, will be an advantage. The candidate should be able to work rigorously and independently, and contribute actively to the development of the research project. Fluency in English (spoken and written) is expected. The candidate will be expected to be independent and contribute actively to the development of the research project.

Benefits of the opening



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UNIÓN EUROPEA
Fondo Europeo de Desarrollo Regional

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5 months full time contract.

Information on the application process:

Deadline to submit applications 22/07/18

Contact cristina.pujades@upf.edu