POSTDOCTORAL RESEARCH POSITION IN DEVELOPMENTAL AND CELL BIOLOGY AT THE DEPARTMENT OF EXPERIMENTAL AND HEALTH SCIENCES
UNIVERSITAT POMPEU FABRA (BARCELONA)

We are interested in understanding how tissue compartmentalization and cell fate decisions take place in the Central Nervous System during embryonic development. Our model is 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 the genetic mechanisms that initiate hindbrain patterning and how they control 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.

Calzolari, S, Terriente, J, Pujades, C. Cell segregation in the vertebrate hindbrain relies on actomyosin cables located at the interhombomeric boundaries. EMBO J Apr 1;33(7):686-701, 2014

CANDIDATE REQUIREMENTS:

We are seeking for highly motivated, passionate and enthusiastic candidates with experience in molecular biology, imaging, and developmental biology. Strong 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.

Interested candidates are encouraged to contact Cristina Pujades for more information. To apply, send a letter of interest, CV, a short description of your research background, and contact details of 2 referees to cristina.pujades@upf.edu

We are located within the PRBB, Dr Aiguader 88, 08003 Barcelona, Spain