

## INSTITUTO CAJAL

### MOLECULAR, CELLULAR AND DEVELOPMENTAL NEUROSCIENCE DEPARTMENT

We are looking for highly motivated and enthusiastic candidates with a Master's degree in the Biomedical field interested in pursuing a PhD in Neuroscience at the **laboratory of Dr. Aixa Morales at the Cajal Institute.**

Our lab offers a **6+6 months contract** with the candidate commitment to apply for a **FPU, la Caixa** and similar **PhD 2015 fellowships** (some of call are currently open). The candidate will work in adult and developmental neurogenesis in the hippocampus and will use different models and techniques, including region-specific knockout mice, genome-wide analysis, neurosphere culture and animal behavioral test.

#### **Requisites:**

- To have an academic record above 8.7 (scale 1-10)
- Research experience in molecular biology and mouse models will be valued.

Interested candidates should contact us before the 20<sup>th</sup> of January, 2016.

#### **Selected recent publications:**

- FGF signaling enhances a Shh negative feedback loop to coordinate ventral patterning and caudal extension of the spinal cord. **Morales, A.V.**, Espeso-Gil, S., Ocaña, I., Nieto-López, F., Calleja, E., Bovolenta, P., Lewandoski, M. and Diez del Corral, R. *Dev. Neurobiol.* (Epub 2015)
- Sox5 controls dorsal interneuron specification, counteracting Wnt signalling in the developing spinal cord Quiroga, A.C., Stolt, C.C., Diez del Corral, R., Dimitrov, S., Perez-Alcala, S., Sock, E., Barbas, J., Wegner, M. and **Morales, A.V.** *Dev. Neurobiol.* 2015 ; 75(5):522-38 (Epub 2014)
- FGF and retinoic acid activity gradients control the timing of neural crest cell emigration in the trunk. (2011). Martinez-Morales, P.L., Diez Del Corral, R., Olivera-Martinez, I., Quiroga, A.C., Das, R.M., Barbas, J.A., Storey, K.G., and Morales, A.V. *J Cell Biol.* 194: 489-503.
- SOX5 controls cell cycle progression in neural progenitors by interfering with the WNT-beta-catenin pathway. (2010). Martinez-Morales, P.L., Quiroga, A.C., Barbas, J.A., and Morales, A.V. *EMBO Rep* 11, 466-472.

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