PRINCIPAL INVESTIGATOR: Beatriz López Corcuera

SCIENTIFIC PROGRAM: Neuropatología molecular/ Molecular Neuropathology

JOB OFFER: Investigador predoctoral (convocatoria FPI de la UAM)/Predoctoral Researcher (UAM FPI call)

PROJECT TITLE: Structure, function and regulation of GlyT2 variants associated to hyperekplexia.

PROJECT DESCRIPTION:

Hyperekplexia (OMIM 149400) is a rare sensorimotor syndrome potentially lethal in newborns. It is caused by defects in the inhibitory glycinergic neurotransmission due to mutations in some human genes such as the neuronal glycine transporter GlyT2 (SLC6A5), responsible for supplying glycine to the presynaptic terminal. In this project, the pathogenic mechanisms of GlyT2 mutations found in hyperekplexia patients will be analyzed in terms of the structure of the transporter, its function, intracellular trafficking, interactome, regulation, as well as its consequences in embryonic or adult life. This study can guide future therapeutic approaches we wish to develop.

DURATION: 4 años/ 4 years

REQUIREMENTS, EXPERIENCE AND ACADEMIC QUALIFICATIONS:

Grade in Medicine, Biology, Biotechnology, Pharmacy, or related. Master completed in the area of Biomedicine. Highly motivated candidates with a good academic record (≥ 8,5) for the completion of the doctorate.

CONTACT:
blopez@cbm.csic.es

DEADLINE:
19/09/2023

OTHER INFORMATION:

Se ofrece formación multidisciplinar en ambiente dinámico y colaborativo utilizando sistemas de expresión de mutantes en células y cultivos primarios de neuronas para ensayos funcionales de transporte, tráfico intracelular, actividad eléctrica, así como estudios in vivo en pez cebra. Los candidatos deben enviar CV, expediente académico y carta de motivación a la Dra. Beatriz López Corcuera (blopez@cbm.csic.es). / We offer multidisciplinary training in a dynamic and collaborative environment using mutant expression systems in cells and primary neuronal cultures for functional assays of transport, intracellular trafficking, electrical activity, as well as in vivo studies in zebrafish. Candidates must send CV, academic record and motivation letter to Dr. Beatriz López Corcuera (blopez@cbm.csic.es).