

**Open position (Research fellowship) @ Italian National Research Council (CNR), Neuroscience Institute and IRCCS Fondazione Stella Maris, Pisa (Italy)**

We are looking for a talented and highly motivated postdoc to carry out a multidisciplinary research project integrating Neuroscience, Molecular Biology and Cellular Biology.

The project, titled *Creatine Deficiency Syndrome: novel insight into brain function and therapeutic strategies*, has been funded by Telethon Foundation. We aim to provide novel therapeutic tools for Creatine Transporter Deficiency (CTD), an X-linked metabolic disorder presenting with intellectual disability, autism and epilepsy. Specifically, we will evaluate a gene therapy approach aimed to amend cellular dysfunction by exogenous provision of a functional copy of CrT gene in a well-established mouse model of CTD. After a first step of *in vitro* validation, gene therapy will be investigated *in vivo*.

We search a junior postdoc with experience in at least some of the following activities/ topics:

- Culture of neuronal cell lines and primary murine neurons and cellular assays (e.g., study of cell morphology, viability, migration, functional assays, protein quantification); cell biology and biochemistry techniques.
- Cloning, plasmid handling, RT-PCR, Western Blot, gas chromatography and mass spectrometry, RNAseq.
- Handling of mice, *in vivo* surgical procedures, behavioral testing, physiological measures, imaging.
- PCR and genotyping analysis.
- Experience in preparation, processing and analysis of tissues and cells (histology, immunocyto/histochemistry).
- Confocal microscopy.

Positive attitude, independence, organizational and planning skills, abilities in networking, team building skills, fast learning, as well as passion and commitment are requested.

Education:

- Master degree in Biotechnology, Biology, Biotechnology, Medicine, Psychology or similar topics;
- PhD in Biotechnology, Biology, Neuroscience, or similar topics **OR** at least 3 years of experience in research (in the above sectors).

Position= 1 year, renewable. The period of employment is 1 year but can be extended up to 2 years, depending on the achieved results/performance.

The expected starting date of this position is November 2022.

The project will be conducted at the Neuroscience Institute of the Italian National Research Council (CNR), in Pisa (Italy) <http://www.in.cnr.it/index.php/it/>

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