**TITLE**

Glycoshingolipid metabolism in neuronal development and disease.

**DESCRIPTION**

Glycosphingolipids are membrane lipids composed of a ceramide backbone linked to a glycan moiety. Although hundreds of different glycans can be assembled into glycosphingolipids, their synthesis is tightly regulated during embryogenesis and failure to produce specific glycosphingolipids leads to neurodevelopmental disorders in humans. How do cells decide which glycosphingolipids to synthesise under any given condition and how do these compounds contribute to embryo development? The research activity linked to this call will deal with the study of the molecular circuits regulating glycosphingolipid production during neural differentiation and with their derangement in neuropathology.

**SELECTION CRITERIA**

Eligibility Criteria

- Academic degree: Applicants shall have a master degree in **Biology / Biotechnology**, corresponding to the second level of studies.
- Mobility rule: There will be no nationality restrictions. Applicants can be from any Country. However, according to the mobility rule, at the time of the application deadline researchers should not have resided or carried out their main activity (work, studies, etc.) in Italy for more than 12 months in the 3 years immediately prior to the reference date. Compulsory national service and/or short stays such as holidays will not be taken into account.
- Research experience: Applicants shall, at the time of the application deadline, be in the first four years (full-time equivalent research experience) of their research careers and not yet awarded a doctoral degree.

Full-Time Equivalent (FTE) Research Experience will be determined from the date when a researcher obtained the degree which would formally entitle him or her to embark on a doctorate, either in the country in which the degree was obtained or in Italy, irrespective of whether or not a doctorate is or was ever envisaged.

Evaluation Criteria

Step 1 -Evaluation of documentation provided by the candidate: a) Academic record and training b) Research activities c) CV/motivation letter; d) Level of English; e) Reference letters

Step 2 -Interview : a) Scientific knowledge in the field of interest; b) Research experience in the field of interest c) Motivation d) English proficiency.