

LAB DI RICERCA DI RNA EDITING

Applications for one position as a postdoctoral fellow is available at the Research Unit' Genetica e Epigenetica dei Tumori Pediatrici, Lab RNA editing and modification led by Angela Gallo (Bambino Gesù Children's Hospital) in Roma.

Applications will be addressed to the Bambino Gesù Children's Hospital for the project focused on "RNA modifications in brain and brain tumors" CODE OPBG 2022/15.

The position will be appointed to biologists and/or biotechnologists with Ph.D. in molecular biology, neurobiology, or similar expertise.

Full Jobs Description

In our lab, we study the importance of RNA modifications (RNA editing) in brain development/activity and brain cancer. In the brain, RNA editing (mainly mediated by the ADAR enzymes) causes profound changes in both sequence and folding of RNAs (lncRNAs, microRNA, and mRNAs). In this context, RNA modification enzymes play an important role in understanding brain function and brain cancer and can be utilized for innovative therapeutic approaches. Using both molecular biology methods and animal models, our work investigates differences among neuronal/glial cell populations with or without RNA modification enzymes (ADARs) during brain development and during brain cancer onset/progression.

At present, we are seeking an experienced researcher (a postdoc position) for a 3 years contract (contract renewal each year) with good experience in molecular biology, neurobiology and/or oncology.

specific skills:

- Strong experience in molecular biology, RNA modifications.
- Cell culture (primary neural cells, NSC, glial cells), neuronal cell differentiation.
- Functional studies (cell proliferation, migration, etc).
- Transfection, mutagenesis, RIP.
- Basic expertise in transcriptional profiling, including RNAseq and single-cell RNAseq.
- Animal models (neurobiology studies, brain cancer).

Previous research experience relevant to the field of the project would be considered an advantage. Interpersonal relationship skills, predisposition to teamwork, and problem-solving skills will be considered preferential characteristics, good level of English is required.

The review of applications will begin in April and will continue until the position is filled.

Applications, including the applicant's CV and the name/address of two references, should be submitted to direzione.scientifica@opbg.net, quoting the code OPBG 2022/15.