

Florence, 24/01/2023

Request of Approval: 1/2023

Dear colleagues,

I am asking your approval for the opening of one research scholarship:

title: **“Sviluppo di metodologie di schiarimento e marcatura per campioni di cervello murino / Development of clearing and labeling methods for murine brain samples”** (Dr Ludovico Silvestri is the Supervisor); I propose the following commission: Dr Ludovico Silvestri, Dr Caterina Credi, Dr Anna Letizia Allegra Mascaro and Dr Leonardo Sacconi as substitute.

Requirements: Master degree in Molecular and Applied Biology

The research activity is: Within the RINCONSIN project, it is necessary to process samples of murine brain to map the tissue microarchitecture with light-sheet microscopy. The candidate will thus develop clearing and labeling protocols on murine brain samples, optimizing techniques currently used in the lab, including tissue expansion. Furthermore, the research activity will include imaging of the same samples and image processing using standard tools (like ImageJ) and software developed within the research group. Base training in biosciences is required (biology, biotechnology, pharmacy, etc.) and the will to learn new methodologies also in the fields of data acquisition and analysis.

The fellowship will last 6 months starting from 01/03/2023 to 31/08/2023. The amount of the fellowship is € 6.000,00 + IRAP charged on RINCONSIN (Banca Intesa San Paolo) project funds.

Thank you for a prompt answer.

The Director
Prof. Elisabetta Cerbai



Approved by
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