



UNIVERSITÀ DEGLI STUDI DI MILANO

DIPARTIMENTO DI SCIENZE FARMACOLOGICHE
E BIOMOLECOLARI - DiSFeB

Direttore: Prof. Alberto Corsini

Three positions (1 Postdoc, 1 Computational Postdoc and 1 Technician) are available in the “Giovanni Galli” laboratory of Biochemistry and Molecular Biology of Metabolism - Mass Spectrometry within the Department of Pharmacological and Biomolecular Sciences-DiSFeB of the Università degli Studi di Milano.

The available positions are in the context of a long-term project that aims at identifying and validating novel mitochondrial regulators capable to modulate the mitochondrial activity during hepatocellular carcinoma (HCC) development and growth.

The project integrates cutting-edge approaches such as *in vivo* reverse genetic screens, patient-derived HCC organoid cultures, transcriptomics, metabolomics, metabolic flux analyses and proteomics to generate an integrated map of the regulatory circuits modulated by novel mitochondrial regulators favoring or repressing HCC development and growth.

Successful candidates will closely interact with other group members but also with the community of researchers of the DiSFeB and collaborators from other research institutes and hospitals.

Profiles:

- **Postdoc:** he/she will be involved in the identification, characterization and validation of novel mitochondrial regulators in the context of HCC both *in vitro* and *in vivo*. Applicants should have (or be in the final stages of receiving) a PhD in a relevant discipline and have experience in biochemistry, molecular, cellular and mitochondrial biology. Mouse handling skills are desirable. He/she should have a documented research background and an excellent inter-personal and communication skills.
- **Computational Postdoc:** he/she will lead, develop and apply advanced computational methods to different omic experiments and generate the perturbational profile maps to uncover pathways modulated by the novel mitochondrial regulators in the context of HCC. Applicants should have PhD degree in systems biology, computational biology, bioinformatics, or a related discipline and experience in the analysis of biological high-throughput data and knowledge in statistical methods in the context of biological systems. He/she should have a documented research background and an excellent inter-personal and communication skills.
- **Technician:** he/she will be focused on the processing and extraction of all the samples for the metabolomic analyses and metabolic flux analyses. Applicants should have a Bachelor's degree or higher. Prior experience in liquid and/or gas chromatography coupled to mass spectrometry is desirable. He/she should have an excellent inter-personal and communication skills.

Interested candidates should submit their curriculum vitae, a motivation letter and contact information for two referees to Nico Mitro (e-mail: nico.mitro@unimi.it).