



OSPEDALE
SAN RAFFAELE

One fellowship immediately available at the Experimental Immunology Unit of the San Raffaele Scientific Institute

One fellowship is immediately available at the Experimental Immunology Unit to work on a project dealing with the deep multidimensional analysis of the tumor microenvironment of hepatic metastasis from colorectal cancer. The project is part of the recently funded AIRC5x1000 Institutional program entitled “Advanced immune gene and cell therapies for liver metastases”, which integrates 4 clinical units and 13 independent research groups located within the San Raffaele campus, leveraging complementary expertise in surgery, oncology, immunology, immunotherapy, cell and gene therapy, and imaging (<https://research.hsr.it/en/index.html>)

In particular, the proposed project will integrate state-of-the-art high dimensional flow cytometry with NSG and single cell RNA-seq of primary tumor specimens, to dissect the hepatic metastatic ecosystem and define possible effector or suppressive pathways implicated in the local immunosurveillance. The data obtained in patients will be mechanistically validated in realistic animal model of metastasis. The information gathered by this project will be instrumental to shape the design of the novel gene and cell therapy strategies proposed by the Program. The project will be carried out in close collaboration with Prof. Chiara Bonini's group for the scRNA-seq, and the Center for Omics Sciences of the San Raffaele Institute for the NGS and computational analysis of the data.

We seek highly motivated and dynamic individuals with a strong interest for translational research and teamwork attitude. Previous experience in immunology and flow cytometry are recommended, although they do not constitute absolute prerequisites to apply. The fellow will be fully involved in an exciting and ambitious program project embracing clinical and fundamental research, and will have access to cutting-edge flow cytometry, imaging and omics facilities provided by the San Raffaele Scientific Institute, the largest biomedical institution in Italy.

The position is initially offered for one year, and can be renewed for up to four years. Salary will be commensurate to experience. If interested, please send: 1. CV; 2. A brief statement of interest comprehensive of scientific accomplishments; 3. Contact information for two references to Paolo Dellabona (dellabona.paolo@hsr.it) and Giulia Casorati (casorati.giulia@hsr.it)

Applications will be reviewed on a rolling basis until the positions will be filled.

Sincerely

Paolo Dellabona, M.D.; Ph.D.

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