

Milano, October 12, 2022

**POST-DOC POSITION - INFECTIONS AND CYSTIC FIBROSIS UNIT –
SAN RAFFAELE SCIENTIFIC INSTITUTE**

IRCCS San Raffaele Scientific Institute in Milan, Italy, is hiring a **Post-doc** to join the **Infections and Cystic Fibrosis Unit** at the Division of Immunology, Transplantation and Infectious Diseases. Recent work in our lab integrates basic and pre-clinical research through a translational approach. We aim at i) understanding the genetic and molecular mechanisms involved in the host-pathogen interactions during initial and persistent infection, and ii) defining new and better approaches to treat infections and cystic fibrosis.

The Post-doc researcher will address the impact of new therapies, such as the recently approved CFTR modulator Kaftrio, on infections in cystic fibrosis. The project will define whether, how and to what extent Kaftrio affects: i) the susceptibility to antibiotics, the virulence and genomic changes of opportunistic pathogens and ii) the host immune response. The results obtained could generate recommendations for the use of new therapies, also in combination with antibiotic treatment, to optimally transfer the results to the clinical setting. The project is funded by the Cystic Fibrosis Foundation (USA) and Italian Cystic Fibrosis Research Foundation.

The project will combine cell culture models with treatments and clinical microbiology. Whole genome sequencing and transcriptome analyses will be applied. Skills in cell culture and microbiology are required. Expertise in genomics and bioinformatics will be considered advantageous requirements.

Host Institution

The laboratory is located at Ospedale San Raffaele (OSR), the seat of the largest biomedical science park in Italy. OSR performs cutting-edge science and aims at advancing the knowledge about human diseases and novel therapies through translational research. OSR can count on 12 Clinical Departments, 6 Research Divisions and 2 Research Centers. The group at the Infections and Cystic Fibrosis Unit and CF animal Core Facility has major expertise on cystic fibrosis including pharmacological treatment.

Application process

Starting date is immediate and the position will remain open until filled. Type of contract and salary will be negotiated based on previous experience. To apply, send your CV and contact details for at least two references to bragonzi.alessandra@hsr.it

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