



Two internship opportunities available at Istituto Pasteur Italia

The Laboratory of Istituto Pasteur Italia – Fondazione Cenci Bolognetti is seeking for highly motivated students for Master’s Degree internship.

The research objectives of the Lab focus on the study of molecular mechanisms that regulate cell homeostasis and host-pathogens interactions and the development of novel immunotherapeutic strategies against infectious diseases and cancer.

Specifically, two positions are currently available to pursue the following projects:

1) **Host-pathogen interactions in viral infections.** This project seeks to investigate the molecular mechanisms exploited by viruses (i.e. SARS-CoV-2, Dengue Virus, HIV-1) to evade innate immune system recognition and response. The characterization of these processes will lead to better define the pathogenetic mechanisms that drive the diseases onset and to develop new antiviral drugs, evaluating their effect on virus replication and innate immune response.

To apply, please contact: enrico.palermo@istitutopasteur.it

2) **Oncolytic virotherapy for solid cancers.** The project aims to harness the potential benefits of immunotherapy by using oncolytic viruses (OV) for the treatment of solid tumors. In particular, the study focuses on both the identification of novel genes involved in the resistance of human pancreatic cancer cells to OVs and the interplay between OVs and the immune system. The identification, optimization and mechanistic understanding of new combinatorial strategies could provide novel therapeutic opportunities for pancreatic cancers.

To apply, please contact: michela.muscolini@istitutopasteur.it

The trainee will be asked 1) to learn and apply molecular biology and biochemistry assays 2) to learn and perform cell culture, treatment and infection techniques. The trainee will review scientific literature to apply state of the art of projects backgrounds.

Interested applicants should send their CV and contact information.