The Italian Institute for Genomic Medicine (IIGM) is a research institute located at FPO-IRCCS Candiolo Cancer Institute, Candiolo, Turin, Italy (www.research.fpoircc.it). The main goal of IIGM is to foster and develop excellence in human genomic research and education, with special reference to genomics, epigenomics, and immunology, with a strong focus on cancer. The institute provides high-level scientific education, and access to state-of-the-art research facilities.

Position:
We are currently seeking a PhD student in applied tumor immunology. In our group we generate tumor-targeting monoclonal antibodies (mAbs) and develop them for therapeutic purposes. We use the targeting information of these novel mAbs to develop chimeric antigen receptors (CARs) for the generation of CAR T cells (or CAR NK cells) and/or the generation of bispecific T cell engagers (BiTEs). All these steps will be performed using recombinant antibody technology. This is a full time position.

Responsibilities

In this role, you will:

- Generate and screen hybridoma libraries raised against solid tumors (especially colorectal cancer and osteosarcoma).
- Validate the specificity of the targeting by immunohistochemistry approaches on tumor and healthy tissues.
- Culture and characterization of human-derived primary CRC and osteosarcoma cultures.
- Perform translational studies to evaluate gene expression profile for potential antigens in tumor patient samples.
- Work in a team environment with basic biologists, bioinformatics and clinicians.

Qualifications:

- Degree in the field of molecular or cellular biology or in biotechnology.
- Excellent interpersonal and communication skills and intermediate/good skills in spoken and written English
- Ability to identify, approach and to solve problems
- Strong organizational skills
- Ability to work in independent fashion (following detailed indications)
- Some practical background in molecular, cell biology and/or biochemistry is highly appreciated
- The work may also include some animal work, therefore it is highly appreciated if the applicant is willing to handle small laboratory animals

Please send your application, letter of recommendation (if available) and curriculum vitae to:
tobiaslongin.haas@unicatt.it