HUMANITAS
RESEARCH HOSPITAL

Flow cytometry specialist, Humanitas Research Hospital, Milan, Italy

A position for a flow cytometry facility specialist is immediately available at Humanitas Research Hospital in Milan, Italy (https://www.humanitas-research.com/tech-platforms/flow-cytometry-core/). The successful candidate will co-manage the flow cytometry core, will operate machines and will provide scientific and technical supervision as well as training to basic scientists. The flow cytometry core is equipped with cutting-edge instrumentation, including 4 analyzers (up to 50-parameter spectral analyzers and up to 30-parameter conventional analyzers) and 2 cell sorters protected in BSL-2 level flow cabinets, enabling infectious sorting.

The optimal candidate should have at least 2-3 year experience with flow cytometry technology, hardware and assays, excellent management and organization skills and be able to interact with 100+ users accessing the facility. Fluent English is required. The successful candidate will also work in close contact with the Laboratory of Translational Immunology (PI: Enrico Lugli) and possibly other facilities (Microscopy, Genomics) to develop/optimize new technologies, such as spectral cytometry, mass cytometry and others.

Humanitas Research Hospital is currently composed by 35 laboratories with >300 basic/clinical scientists performing research in different fields, with a special focus on immunology and inflammation, cardiovascular research and neuroscience. The research institute hosts additional facilities including, but not limited to confocal and in vivo microscopy, animal house, immunohistochemistry, metabolomics and genomics.

The position is initially available as a fixed-term contract, that could be converted into a permanent contract. Salary, as well as employment level, will be defined based on candidate's profile.

To apply, please send a letter of interest, a 2-page CV (no European format), and the contact information of at least two referees to Dr. Enrico Lugli (**enrico.lugli@humanitasresearch.it**).

References

1. Puccio, S., et al. CRUSTY: a versatile web platform for the rapid analysis and visualization of high-dimensional flow cytometry data. *Nat. Commun. 14*, 5102. 10.1038/s41467-023-40790-0.

2. Brummelman, J. *et al.* Development, application and computational analysis of high-dimensional fluorescent antibody panels for single-cell flow cytometry. *Nat. Protoc.* **14**, 1946-1969 (2019).

3. Mazza, E.M.C. *et al.* Background fluorescence and spreading error are major contributors of variability in high-dimensional flow cytometry data visualization by t-distributed stochastic neighboring embedding. *Cytometry A* **93**, 785-792 (2018).

4. Brummelman, J. *et al.* High-dimensional single cell analysis identifies stem-like cytotoxic CD8(+) T cells infiltrating human tumors. *J. Exp. Med.* **215**, 2520-2535 (2018).