

## **Junior Position in Cellular Immunology**

*Humanitas Clinical and Research Center, Milan, Italy*

I am seeking a highly motivated junior scientist at the postbac (post “laurea”) level to study the cellular and molecular mechanisms of memory T cell differentiation in humans and its role in anti-tumor immune responses. The fellowship is initially available for 1 year and will lead to a PhD position in 2018. The Laboratory of Translational Immunology works in close contact with the Humanitas Research Hospital and the Humanitas Cancer Center to study T cell responses in individuals with solid tumors. We are specialized in the identification and characterization of novel lymphocyte subsets and in the evaluation of their anti-tumor, anti-viral and immune reconstitution potential. To this end, we take advantage of a 28-color, 30-parameter polychromatic flow cytometry platform we recently developed, as well as state-of-the-art cellular, molecular and computational approaches.

The optimal candidate would have a degree in biology, biotechnology, medicine or related disciplines and preferably 1-2 year training in immunology or cancer biology. Previous experience with mouse models will be considered a plus. Fluent English (written and spoken) is required. Full access to Humanitas facilities (flow cytometry, confocal and two-photon microscopy, Illumina station, BSL-3, SPF mouse house) will be granted.

*To apply, please send a motivation letter, your CV (no European format), and the contact information (or letters of recommendation) of at least two referees to Dr. Enrico Lugli ([enrico.lugli@humanitasresearch.it](mailto:enrico.lugli@humanitasresearch.it)).*

### **Selected references:**

1. Lugli E, et al. FACS analysis of memory T lymphocytes. *Methods Mol Biol.* 2017;1514:31-47
2. Roberto A, Castagna L, Zanon V, et al. Role of naive-derived T memory stem cells in T cell reconstitution following allogeneic transplantation. *Blood.* 2015;10.1182/blood-2014-11-608406.
3. Conlon KC, Lugli E, Welles HC, et al. Redistribution, hyperproliferation, activation of natural killer cells and CD8 T cells, and cytokine production during first-in-human clinical trial of recombinant human interleukin-15 in patients with cancer. *J Clin Oncol.* 2015;33(1):74-82.
4. Lugli E, Dominguez MH, Gattinoni L, et al. Superior T memory stem cell persistence supports long-lived T cell memory. *J Clin Invest.* 2013;123(2):594-599.
5. Gattinoni L, Lugli E, Ji Y, et al. A human memory T cell subset with stem cell-like properties. *Nat Med.* 2011;17(10):1290-1297.

### **Enrico Lugli, PhD**

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