

# Post-Doctoral Fellowships, Computational and Wet Scientists

## Genomics of the Innate Immune System Lab - Renato Ostuni

Positions for **computational and wet postdocs** are available in the Group of **Renato Ostuni** at the San Raffaele-Telethon Institute for Gene Therapy (SR-Tiget) in Milan, Italy. Our lab combines single-cell genomics, genome engineering and gene therapy to dissect and manipulate the complex network of transcription factors, chromatin regulators and non-coding RNAs that control **gene expression in the innate immune system**.

**Project.** In response to environmental cues, macrophages acquire specialized phenotypes ranging from immune stimulation and cytotoxicity to immune suppression and tissue repair. Aberrant transitions between these properties in cancer underlie the generally pathogenic role of **tumor-associated macrophages (TAMs)**. At the same time, TAM plasticity could be targeted for therapeutic purposes. Within an **ERC-funded** project starting in March 2018, we will elucidate how TAMs integrate complex environmental stimuli in tumors and translate them into tissue- and disease-specific gene expression programs. Successful candidates will employ single-cell genomics, computational modelling and CRISPR-based functional screenings and develop **gene therapy** strategies to repurpose TAMs in **pancreatic cancer**.

**Candidate.** We look for highly motivated, curious and self-driven individuals to lead challenging projects tackling fundamental biological questions. We invite applications from candidates with **computational or experimental background** and previous experience in bioinformatics/statistics/quantitative biology or immunology/genomics; communication and organization skills; ability to work independently within a multidisciplinary team.

We offer **highly competitive salaries and benefits**. Candidates should send a detailed CV, a cover letter with research interests and motivation to join the lab, and contact information for 2/3 referees to Renato Ostuni ([ostuni.renato@hsr.it](mailto:ostuni.renato@hsr.it)).

SR-Tiget is a leading Centre for gene and cell therapy. A joint venture of the **Telethon Foundation** and the **San Raffaele Scientific Institute** in Milan, it is located at the heart of one of Europe's major science parks and research hospitals. Its unique location ensures access to state-of-the-art research facilities and its mission gives priority to clinical translation.



*Piccolo et al.; Nat Immunol 2017; Ostuni et al., Semin Immunol 2016; Ostuni et al., Trends Immunol. 2015; Ostuni et al., Cell 2013; Zanoni et al., Cell 2011; Zanoni et al., Nature 2009.*