

## Postdoctoral Fellowship

### Human hematopoietic development and disease modeling Lab - Andrea Ditadi

One **post-doctoral position** is available in the laboratory of Dr. Andrea Ditadi at the SR-TIGET in Milan. Our lab combines developmental cell and molecular biology to understand normal and pathological human hematopoietic development, with a particular interest in studying the genetic origins for blood disorders and developing novel strategies for their treatment.

The successful candidate will be in the unique position to integrate stem cell, human development and molecular biology, to study the **regulation of translation** during human **hematopoietic development** using our hESCs/hiPSCs platform. This ambitious project aims at dissecting how **gene expression** as well as **ribosome maturation** are modulated during human blood development. We will coordinate a **strong international interdisciplinary team** focused on understanding the molecular basis of ribosomopathies, a group of rare diseases in which genetic mutations cause defects in ribosome function. The successful candidate will use a systematic approach based on CRISPR-Cas9 genome editing, *in vitro* and *in vivo* innovative assays and multi-omic strategies. The position is open for a proactive self-motivated postdoctoral fellow, holding a PhD degree in molecular and cell biology, biochemistry or relevant field for no more than 4 years. Proficiency in oral and written English is a must, while competence in bioinformatics is a significant asset but not required.

**Milan** is a vibrant **international** city and is an excellent location for arts, commerce, design, entertainment, fashion and gastronomy. We offer excellent working conditions, including a **highly competitive salary** (and all foreigners and for Italian citizens that has worked abroad for at least three years can benefit of competitive tax exemption schemes). The host institution (**Ospedale San Raffaele**) is one of the leading research institutes in Italy with state-of-the-art facilities and infrastructures (Next-Generation Sequencing, Cell Sorting and Imaging, Animal Facilities), and direct access to clinically relevant human samples. **SR-TIGET** is a world-leading Institute in the areas of **gene and cell therapy** for the treatment of human genetic diseases; thus, our projects benefit from close collaborations with active clinicians and are expected to accelerate the development of techniques that could be **translated to the clinic**.

Informal enquiries and applications can be sent to Dr. Andrea Ditadi ([ditadi.andrea@hsr.it](mailto:ditadi.andrea@hsr.it)) describing briefly research interests and career goals and including CV and contact information for 2-3 references.