



Tissue Regeneration & Homeostasis Unit



Postdoctoral Position

We are looking for a highly motivated candidate for a position as postdoctoral fellow in the unit of Dr. Emilie Venereau at the San Raffaele Scientific Institute in Milan (<https://research.hsr.it/en/divisions/genetics-and-cell-biology/units/tissue-regeneration-and-homeostasis.html>). Equipped with state-of-the-art technology and excellent core facilities, to which the successful candidate will have access, the institute provides outstanding research opportunities for its scientists.

Our main interest is to gain a deeper understanding of the cellular and molecular mechanisms that coordinate tissue regeneration and homeostasis. We combine *in vivo* mouse models with molecular, cellular and imaging procedures to unravel mechanistic insights underlying the regenerative process and tumorigenesis, and to evaluate the therapeutic relevance of our findings in preclinical models. Our current research activities are focused on the regeneration of skeletal muscle, from physiological to pathological conditions such as muscular dystrophies, and the study of tumorigenesis and muscle wasting associated to cancer.

The candidate will be involved in a project funded by the Italian Association for Cancer Research aiming at deciphering the role of HMGB1 protein in the crosstalk between tumour cells and the host, which could have broad implications in cancer, from enhancing the anti-tumour immune response to preventing cachexia. Along these lines, we propose to pave the way for the development of innovative HMGB1-based therapies for cancer by conducting a preclinical study with engineered proteins. Our approach combines imaging, molecular and cellular biology in preclinical models of cancer and transgenic mice.

The ideal candidate should have a Ph.D. in a relevant subject (e.g., cell biology, immunology, or in a related field of the life sciences), prior experience in animal handling, a good ability in team working, reliability and precision. Previous experience in muscle and/or oncological research will be considered a plus.

The position is full-time, 1 year (renewable), and it will be available starting from February 1st 2024.

To apply, please send a CV and a brief letter of intent to Emilie Venereau (venereau.emilie@hsr.it). Contact details of two referees would be much appreciated. Selected candidates will be directly contacted for interviews until the position is filled.



View of San Raffaele Institute



Milan Center, Piazza del Duomo