

Post-doctoral researcher

Transcriptional regulation of anti-tumor immunity

A post-doctoral position is open in the Gabellini laboratory at OSR to investigate the transcriptional regulation of human endogenous retroviruses (ERV) in the context of cancer immunotherapy.

Recent data indicate that ERV expression level within tumor cells correlates with the ability of the immune system to recognize the tumor and the overall survival and progression-free survival upon immunotherapy. Nevertheless, the mechanisms regulating ERV gene expression are incompletely known. We have discovered a novel factor that drives ERV expression and makes cancer cells more “visible” to the immune system. We plan to better understand how this factor works and how we could exploit the acquired knowledge to boost cancer immunotherapy. The project is funded by the National Cancer Institute/National Institute of Health USA and will integrate genome-wide (ChIP-seq and RNA-seq) and functional approaches in cellular and animal models of cancer.

Qualification

We are searching for a highly motivated and career-oriented research fellow with a high level of independence and a PhD degree in molecular and cellular biology.

Experience with transcriptomic/epigenomic profiling and animal models of cancer immunotherapy is essential. Candidates possessing excellent analytical, communication and organizational skills must be able to work independently as well as with interdisciplinary teams.

Place of employment and work

San Raffaele is an international institute with a strong focus on biomedical research, offering an exceptional research environment and cutting-edge platforms. It is located in Milan, a cosmopolitan city, which has been ranked number one for quality of life in Italy: <https://www.yesmilano.it/en>.

The team

We are interested in understanding the mechanisms and dynamics of epigenetic regulation and chromatin structure, which coordinate global gene expression programs in normal and disease states. We use in vitro and in vivo approaches to identify RNA profiles, transcription factor binding sites and epigenomes defining functional gene “hubs” and decision points that dynamically coordinate gene programming.

Terms of salary and employment

A competitive salary commensurate with the experience and qualifications will be offered. Applications including a cover letter, curriculum vitae and the names of (at least) two referees should be sent to: Davide Gabellini at gabellini.davide@hsr.it

For more information about the laboratory:

<http://research.hsr.it/en/divisions/genetics-and-cell-biology/gene-expression-and-muscular-dystrophy.html>

<http://www.ncbi.nlm.nih.gov/pubmed?term=gabellini+davide&cmd=DetailsSearch>