

Post-Doctoral position at San Raffaele-TIGET, Milan - Italy

A **two-year post-doctoral fellowship**, funded by the *Fanconi Anemia Research Fund Inc.*, is available in the lab of “Retrovirus-Host Interactions and Innate Immunity to Gene Transfer” at the San Raffaele Telethon Institute for Gene Therapy (SR-TIGET), Milan, Italy, **starting from June 1st, 2016**.

We are a young and dynamic group interested in studying the molecular mechanisms of host-vector interplay in the context of hematopoietic stem cell (HSC) gene therapy of monogenic inflammatory diseases, with particular focus on innate immunity and host responses to transduction (Petrillo et al., *Mol Ther.*, 2015; Kajaste-Rudnitski and Naldini, *Hum Gene Ther.*, 2015). To investigate these aspects, we use high through-put transcriptomic approaches, molecular virology tools, advanced gene delivery platforms, state-of-the-art xenograft *in vivo* models of human hematopoietic reconstitution as well as relevant *in vitro* and *in vivo* models of disease. Our overall goal is to provide molecular insight critical for the development of more stealth and efficient HSC gene therapy strategies.

As part of the **SR-TIGET**, a world-leading Institute in the fields of gene and cell therapy for the treatment of human genetic diseases, we benefit from a highly competitive, international and scientifically stimulating environment and offer excellent working conditions, including state-of-the-art facilities and infrastructures (Next-Generation Sequencing, Cell Sorting and Imaging, Animal Facilities, GLP laboratories), and access to clinically relevant human samples.

We are looking for a skilled and highly motivated candidate with:

- a PhD Degree in Biological Sciences, Biotechnology or related disciplines
- a proven track record of peer-reviewed publications in relevant scientific areas
- experience at least in one of the following: molecular and cellular biology, lentiviral vectors/gene therapy, primary human cell culture and manipulation

Previous experience in retrovirology, NGS data analysis, HSC manipulation, Fanconi Anemia disease models and/or animal handling is a significant plus. The candidate is also expected to have team spirit and excellent communication and organization skills. Salary will be negotiated based on experience and profile.

Interested candidates should submit their application with a detailed CV, a cover letter, and names of 2/3 references to **Anna Kajaste-Rudnitski**, kajaste.anna@hsr.it