

OPEN POSITION for a young post-doctoral researcher

PROJECT: PRIN 2022 Prot. 2022XBYNJP *Interplay between mechanical stimuli and heterochromatin dynamics in cancer.*

Assegno di ricerca (<http://web.units.it/concorsi/ricerca/assegni-ricerca/pub>) deadline

December 21, 2023.

Duration: 18 months, renewable.

Research Unit PI: Prof. **Giannino Del Sal** - Cancer Cell signaling group; Department of Life Sciences, University of Trieste – International Centre for genetic engineering and biotechnology (ICGEB) Trieste, IFOM-ETS The AIRC Institute of Molecular Oncology)-Milano.

A postdoctoral position is available in the Laboratory of Prof. Del Sal at the Dept. of Life Sciences, University of Trieste, hosted at the International Centre for Genetic Engineering and Biotechnology (ICGEB) in an international working environment. Our dynamic and multidisciplinary team encompasses biologists, biotechnologists and bioinformaticians, and has extensive national and international collaborations (<https://www.icgeb.org/cancer-cell-signalling/>).

Project information

Our research aims at investigating mechanisms of nuclear mechano-transduction that preserve nuclear envelope and genome integrity in mechanically challenged tumor cells, and modulate chromatin dynamics, epigenetic modifications and gene expression in response to mechanical cues, contributing to tumor progression and therapy resistance.

The project will combine omics methods to achieve chromatin organization maps with techniques to analyze the impact of mechanical cues on 3D-cultured cells as well as *in vivo*, and will exploit pharmacologic inhibition of identified mechanisms to dampen pro-tumorigenic mechano-signaling and sensitize tumor cells to anticancer therapy.

Job requirements

We are seeking for a highly motivated young post-doctoral researcher with a strong background in cancer biology. Proficiency in English, communication skills and team work attitude are also important requirements.

Applicants would likely have:

- a PhD in molecular Biomedicine, genetics, biology, pharmacology or in a related field of the life sciences.
- Skills in cell culturing and molecular biology, analysis of protein-protein interactions, regulation of gene expression, epigenetic modifications and chromatin dynamics.
- Previous experience in animal manipulation is a plus.

Interested candidates should contact as soon as possible the PI (delsal@icgeb.org) including a CV with a list of publications, a brief research statement, a cover letter and contact information for two references (name, address, email and phone number).