



Epigenetic Mechanisms of Cancer

Post doc position

Our laboratory is looking for a post-doc to work on Polycomb-related mechanisms of transcriptional repression and chromatin integrity in the control of cellular identity, decrypting the molecular details of related oncogenic mechanisms

Candidate profile

The candidate must be highly motivated with excellent communication skills and proven knowledge in the fields of molecular and cellular biology. Candidates with deep expertise with transcription, chromatin and epigenetics and or with expertise in epigenomics, proteomics and genetic engineering are particularly encouraged to apply. Fluent communication skills in English are required.

Environment

The candidate will work in close relationship with the computational scientists of the laboratory embedded with all the researchers of the institute in an open-space environment that boost scientific interactions. The candidate will have access to all the required infrastructures to pursue the research activity including fully equipped laboratories and state-of-art technological units.

The lab and the institute

The Pasini's laboratory operates within the Department of Experimental Oncology of the European Institute of Oncology (IEO) located in Milan, Italy (<https://www.research.ieo.it/>).

The IEO is one of the leading research institutes in Italy. IEO operates as a Comprehensive Cancer Center, linking fundamental and applied research to clinical activities, patient care and clinical trials. The Department of Experimental Oncology (DEO) is currently composed of ~250 scientists working in 20 independent research groups and units. DEO is located within a scientific campus together with two other partner institutions: the FIRC Institute of Molecular Oncology (IFOM) and the Italian Institute of Technology (IIT). The IEO is one of the 13 members of the EU-LIFE alliance to promote excellence in life sciences in Europe (<http://eu-life.eu>).

IEO is an equal opportunity employer committed to excellence through diversity.

Salary conditions

A competitive salary will be offered according to the candidate experience. Please note that for all foreigners and for Italian citizens that has worked abroad for at least three years can benefit of competitive tax exemption schemes.

How to apply

Applicants should send a full CV, a brief motivation letter and contact details for references in a single PDF file to diego.pasini@ieo.it

Recent publications

- Conway et al. BAP1 enhances Polycomb repression counteracting widespread H2AK119ub1 deposition and chromatin condensation. PMID 34186021. Molecular Cell. 2021
- Tamburri et al. Histone H2AK119 Mono-Ubiquitination Is Essential for Polycomb-Mediated Transcriptional Repression. PMID 31883952. Molecular Cell. 2020
- Scelfo et al. Functional Landscape of PCGF Proteins Reveals Both RING1A/B-Dependent-and RING1A/B-Independent-Specific Activities. PMID 31029542. Molecular Cell. 2019
- Pivetti et al. Loss of PRC1 activity in different stem cell compartments activates a common transcriptional program with cell type-dependent outcomes. PMID 31106267. Science Adv. 2019
- Lavarone et al. Dissecting the role of H3K27 acetylation and methylation in PRC2 mediated control of cellular identity. PMID 30976011. Nature Commun. 2019
- Chiacchiera et al. PRC2 preserves intestinal progenitors and restricts secretory lineage commitment. PMID 27585866. EMBO Journal. 2016
- Chiacchiera et al. Polycomb Complex PRC1 Preserves Intestinal Stem Cell Identity by Sustaining Wnt/beta-Catenin Transcriptional Activity. PMID 6526724. Cell Stem Cell. 2016