



Post-doctoral Fellowship in Molecular Oncology

Project title: “*Pathophysiological impact of non-coding RNAs in Ewing sarcoma: exploiting novel RNA functions*”.

One post-doctoral position is available at the Laboratory of Molecular and Cellular Neurobiology, Fondazione Santa Lucia, headed by Prof. Maria Paola Paronetto.

The project is funded by the Italian Association for Cancer Research (AIRC) and aims at investigating the oncogenic dysregulation of transcriptional and post-transcriptional programs in Ewing sarcoma.

The candidate will work at the characterization of the molecular mechanisms underlying cancer-specific transcriptional signatures and at the elucidation of the impact exerted by oncogenic expression program on the response to therapeutic treatments.

Highly motivated candidates, with passionate interest in cancer cell biology and a proactive collaborative attitude are invited to apply.

Candidates must hold a PhD degree in a relevant biomedical discipline (Biology, Biotechnology or similar). Prior research experience in molecular biology and cancer biology are desirable. Experience with murine models and bioinformatics skills, related to transcriptomic analysis will be considered a plus.

Interested candidates should send their CV and contact us for further details at the following address: mariapaola.paronetto@uniroma4.it

Selected References:

Mercatelli N, Palombo R, Paronetto MP. Emerging Contribution of PancRNAs in Cancer. *Cancers (Basel)*. 2020 Jul 24;12(8):2035.

Chellini L, Frezza V, Paronetto MP. Dissecting the transcriptional regulatory networks of promoter-associated noncoding RNAs in development and cancer. *J Exp Clin Cancer Res*. 2020 Mar 17;39(1):51.

Palombo R, Verdile V, Paronetto MP. Poison-Exon Inclusion in DHX9 Reduces Its Expression and Sensitizes Ewing Sarcoma Cells to Chemotherapeutic Treatment. *Cells*. 2020 Jan 31;9(2):328.

Mercatelli N, Fortini D, Palombo R, Paronetto MP. Small molecule inhibition of Ewing sarcoma cell growth via targeting the long non coding RNA HULC. *Cancer Lett*. 2020 Jan 28;469:111-123

Palombo R, Frisone P, Fidaleo M, Mercatelli N, Sette C, Paronetto MP. The Promoter-Associated Noncoding RNA pncCCND1_B Assembles a Protein-RNA Complex to Regulate Cyclin D1 Transcription in Ewing Sarcoma. *Cancer Res*. 2019 Jul 15;79(14):3570-3582.