



UNIVERSITÀ
CATTOLICA
del Sacro Cuore

**Dipartimento di Neuroscienze
Sezione di Anatomia Umana**

Post-doctoral Fellowships in Molecular Oncology

Projects title: dysregulation of transcriptional and post-transcriptional programs in human cancer

Two post-doctoral positions are available at the Institute of Human Anatomy and Cell Biology, headed by prof. Claudio Sette.

The projects are funded by the Italian Association for Cancer Research (AIRC) and aim at investigating the oncogenic dysregulation of transcriptional and post-transcriptional programs in breast cancer (supervised by Dr. Chiara Naro) and pancreatic cancer (supervised by Prof. Claudio Sette). The candidates 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 cancer biology and 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: claudio.sette@unicatt.it; chiara_naro@libero.it.

Selected References:

Caggiano C, Pieraccioli M, Panzeri V, Sette C, Bielli P. c-MYC empowers transcription and productive splicing of the oncogenic splicing factor Sam68 in cancer. *Nucleic Acids Res.* **2019**; 47:6160-71.

Naro C, Pellegrini L, Jolly A, Farini D, Cesari E, Bielli P, de la Grange P, Sette C. Functional Interaction between U1snRNP and Sam68 Insures Proper 3' End Pre-mRNA Processing during Germ Cell Differentiation. *Cell Rep.* **2019**; 26:2929-2941.e5

Bielli P, Panzeri V, Lattanzio R, Mutascio S, Pieraccioli M, Volpe E, Pagliarulo V, Piantelli M, Giannantoni A, Di Stasi SM, Sette C. The Splicing Factor PTBP1 Promotes Expression of Oncogenic Splice Variants and Predicts Poor Prognosis in Patients with Non-muscle-Invasive Bladder Cancer. *Clin Cancer Res.* **2018**; 24:5422-5432.

Naro C, Barbagallo F, Chieffi P, Bourgeois CF, Paronetto MP, Sette C. The centrosomal kinase NEK2 is a novel splicing factor kinase involved in cell survival. *Nucleic Acids Res.* **2014**; 42:3218-27.