UNIVERSITÀ CATTOLICA del Sacro Cuore
Dipartimento di Neuroscienze
Sezione di Anatomia Umana

Rome, 1st July, 2022

Post-doctoral Fellowships in Molecular Oncology

The group headed by prof. Claudio Sette at the section of **Human Anatomy and Cell Biology**, **Department of Neuroscience**, of the **Catholic University of the Sacred Heart** in Rome, is looking for motivated candidates, with passionate interest in translational cell biology, to be enrolled as post-doctoral fellow.

Dysregulation of mRNA processing in cancer and therapeutic potential of its modulation are main research interests of the group. Organoids models are currently exploited to investigate the translational potential of such approaches.

The project, supervised by Dr. Chiara Naro and funded by the Italian Association for Cancer Research (AIRC), aims at investigating the oncogenic dysregulation of transcriptional and post-transcriptional programs in breast cancer.

The candidates will work at the characterization of the molecular mechanisms underlying cancer-specific transcriptional signature and at the elucidation of the impact exerted by oncogenic expression program on cancer cells interaction with tumor microenvironment and their response to therapeutic treatments.

Candidates must hold a PhD degree in a relevant biomedical discipline (Biology, Biotechnology or similar), received since no more than two years. Prior research experience in molecular biology and cancer biology will be required. Experience with organoids and bioinformatics skills, related to transcriptomic analysis will be considered a plus.

Interested candidates might feel free to send us their CV and contact us for further details at the following address: claudio.sette@unicatt.it; chiara.naro@unicatt.it

Selected References:

- Naro C, et al. Functional Interaction Between the Oncogenic Kinase NEK2 and Sam68 Promotes a Splicing Program Involved in Migration and Invasion in Triple-Negative Breast Cancer. *Front Oncol.* 2022.
- Naro C, et al. The oncogenic kinase NEK2 regulates an RBFOX2-dependent pro-mesenchymal splicing program in triple-negative breast cancer cells. *J Exp Clin Cancer Res.* 2021.
- Naro C, et al. Oncogenic dysregulation of pre-mRNA processing by protein kinases: challenges and therapeutic opportunities. *FEBS J.* 2021.
- Panzeri V, et al. The RNA-binding protein MEX3A is a prognostic factor and regulator of resistance to gemcitabine in pancreatic ductal adenocarcinoma. *Mol Oncol.* 2021.
- Caggiano C, et al. c-MYC empowers transcription and productive splicing of the oncogenic splicing factor Sam68 in cancer. *Nucleic Acids Res.* 2019