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Post-doctoral position at the Martello Laboratory of Pluripotent Stem Cell Biology

Applications are invited for post-doctoral fellows to join the research group of Prof. Graziano Martello at the Department of Biology, University of Padova. Our laboratory studies how pluripotent stem cells are generated by reprogramming, how their identity is maintained, and how they differentiate and self-organise. To do so, we take an interdisciplinary approach, combining molecular, cellular and computational biology.

We are looking for highly motivated and creative candidates with a PhD and relevant publications in the fields of molecular and cellular biology.

The position is available for 3 years from September 2021 and a competitive salary will be commensurate to the candidate's experience.

The ERC-supported project aims to study how spatial organisation and metabolism affect the transcriptome and epigenome of pluripotent stem cells.

To do so, we generate and genetically modify murine and human pluripotent stem cells, build 2D and 3D models and perform multi-omics analyses.

Please see our web site (martellolab.org) and the following relevant publications:

Betto et al. *Metabolic control of DNA methylation in naive pluripotent cells*. **Nature Genetics** (2021)
- Zorzan et al. *The transcriptional regulator ZNF398 mediates pluripotency and epithelial character downstream of TGF-beta in human PSCs*. **Nature Communications** (2020) - Giulitti et al. *Direct generation of human naive induced pluripotent stem cells from somatic cells in microfluidics*. **Nature Cell Biology** (2018) - Carbognin et al. *LIF/Stat3 directly promotes mitochondrial respiration during maintenance and induction of naive pluripotency*. **The EMBO Journal** (2015)

University of Padova (<https://www.unipd.it/en/>) is among the top Italian research institutions with over 30 ERC grantees. Combining a strong tradition in cell biology together with interdisciplinary approaches, our university represents an ideal environment for life science research. Padova is a historical university city, located in the North-East of Italy, near Venice, the Mediterranean Sea and the Dolomites, enabling a healthy work-life balance.

Applicants should send to graziano.martello@unipd.it their CV, a cover letter explaining why you are interested in joining the lab and contact information of two references.