



UNIVERSITÀ
DEGLI STUDI
DI PADOVA



MARIE SKŁODOWSKA-CURIE ACTIONS

Research Fellowship Programme

Marie Skłodowska-Curie Actions - Postdoctoral Fellowships

METABOLIC CONTROL OF TRANSLATION IN CANCER

The University of Padua and the Laboratory of Angiogenesis and Cancer Metabolism, Dept. of Biology, University of Padua, led by Prof. Massimo M. Santoro are seeking post-doc candidates for the upcoming Marie Skłodowska-Curie Actions - Postdoctoral Fellowships (MSCA –PF) programme to study the **crosstalk between translation and metabolism in cancer growth and spreading** starting in 2025. The lab has recently identified a set of metabolic and translational mechanisms that are crucial for the regulation of tumor vasculature and cancer growth (Biffo et al., 2024, *Cell Metabolism*; Tosi et al., *Nature Communications*, 2024; Merteroglu and Santoro, 2023 *Trends Cancer.*; Facchinello et al., 2022, *Nature Metabolism*; Oberkersch et al., 2022, *Developmental Cell*).

Using advanced genetic and spatial omics approaches as well as advanced molecular and metabolic techniques we want to elucidate how metabolism regulates cancer survival and progression through RNA modifications and coding (e.g. mRNA translation). Our laboratory has acquired strong experience in the field of metabolism, genetic, molecular and cellular biology working with cells and animal models. Mouse animal facility, transcriptomics/translatomic platforms, STED, atomic force, multiphoton, light sheet microscopy equipment's, and metabolic/proteomic core facilities are available in the laboratory and department for these studies. The project will include collaboration with international labs. Please visit these websites for further information about us: www.massimosantorolab.com and <https://pubmed.ncbi.nlm.nih.gov/?term=massimo+m.+santoro&sort=pubdate>.

University of Padua is among the top Italian institutions with over 30 ERC grantees. Our university combine a strong tradition in cell biology with interdisciplinary approaches and represents an idyllic environment for life science research. Padova is an historical university city, located in the North-East of Italy, near Venice, closed to the Mediterranean Sea and the Dolomites enabling a healthy work-life balance.

Applicants for this post-doctoral position should hold a PhD degree in biomedical sciences, biology, medicine, or related disciplines. Motivated PhD students of all nationalities with a strong commitment to basic and/or clinical research are invited to apply. The candidate should have well-developed social skills and be able to work in a team. Interest in the field of angiogenesis, cell signaling, and metabolism will be an additional asset. Applicants

should have good communication skills in spoken and written English. More information available at <https://www.unipd.it/en/msca-marathon>.

Contact

Please send your CV, letter of motivation, and the contact information of at least two supervisors to Prof. Massimo Santoro at massimo.santoro@unipd.it.