



PROGETTI DI RICERCA DI
RILEVANTE INTERESSE NAZIONALE



FONDAZIONE AIRC
PER LA RICERCA SUL CANCRO

TWO POSITIONS AVAILABLE IN COMPUTATIONAL BIOLOGY at the Department of Biology, University of Padova (Italy) in the laboratory of Prof. Calura Enrica

Funding projects

- PRIN – MIUR hyPERTRAcE - Tracing the genomic and biochemical regulations of cell fate by the mitochondrial PERmeability TRAnSition pore.
- National Center for Gene Therapy and Drugs based on RNA Technology, Piano Nazionale di Ripresa e Resilienza (PNRR) – Cancer Spoke.

The Research Projects

The aim of both the projects is to improve our understanding of mitochondrial physiology, in healthy and cancerous conditions, by utilizing advanced genomic and biochemical techniques, along with multi-omics integrative analyses. The projects will involve generating a substantial amount of NGS (Next-Generation Sequencing) and metabolomic data, including spatial transcriptomics data from in-vivo models.

The candidate will play an active role in **developing and applying** bioinformatic and computational biology methods for data processing and multi-omic integration, using network models.

Qualifications and qualities

We invite applications from highly motivated and outstanding students with a master's degree or PhD in one of the following disciplines: Biology, Biotechnology or Statistics, Bioinformatics or Computational Biology. Students from related disciplines, such as Engineering, Physics or Mathematics are also welcomed to apply if motivated to biological applications.

The candidate should have an appropriate problem-solving attitude, good communication skills, and be willing and able to work in team. Interest in molecular biology, cell biology and mitochondria mechanisms are expected.

Additionally, the following skills would be an advantage for the selection:

- Experience in omic data analysis.
- Programming skills (R/Python).
- Ability to interact with scientists of different disciplines.

Salary: Positions available is available from October 2023

12-months contract (renewable for another 12) with a salary of ~1.400 Euro/Month

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DIPARTIMENTO DI BIOLOGIA
UNIVERSITÀ DEGLI STUDI DI PADOVA

