



FONDAZIONE
RICERCA BIOMEDICA
AVANZATA ONLUS
V.I.M.M.



Position Summary

2-year Postdoctoral Fellowship available at the Veneto Institute for Molecular Biology (VIMM) in Padova, Italy. The candidate will work on the role of mitochondrial dynamics in pancreatic cancer tumorigenesis in the newly-established laboratory of Tumor Metabolism directed by Dr. Alessandro Carrer.

The Carrer lab studies the relationship between cellular metabolism and histone acetylation (**Carrer & Wellen, *Curr Opin Biotechnol*, 2015**). Oncogene activation rewires acetyl-CoA metabolism in pre-neoplastic pancreatic epithelial cells (**Lee, Carrer et al, *Cell Metabol*, 2014**; **Carrer et al, *Cancer Discov*, 2019**).

The successful candidate will be part of a newly-initiated effort to characterize means of communication between mitochondria and the nucleus and identify metabolic dependencies in pancreatic cancer onset. The recruited postdoc will deploy lineage-tracing animal models of spontaneous pancreatic carcinogenesis and next-generation sequencing to map chromatin accessibility in response to perturbations of acetyl-CoA availability.

We are looking for a highly motivated individual, with training in molecular and cell biology and biochemistry to join a newly-formed laboratory, established at one of the hotspot for basic research in Italy, characterized by a multicultural and vibrant environment, state-of-the-art labs and facilities and vast expertise in mitochondrial metabolism and cancer biology. Experience with *in vivo* cancer models, mitochondrial biology and/or epigenetics would be considered a plus. Competitive salary, commensurate to experience.

Selection Criteria

Mandatory

- A PhD in molecular biology, cell biology, biochemistry or related discipline.
- Expertise in cell and molecular biology techniques, e.g. cell culture, RNA/DNA/Protein isolation, PCR, plasmid construction, transfection and recombinant DNA work, western blotting, immunofluorescence.
- A demonstrated commitment to research and publications.
- Evidence of research activity (publications, conference presentations, awards) and scholarly output (working papers, research proposals, and ability to outline a research project).
- Excellent Communication Skills (Oral, Written, Presentation etc).
- Excellent Organisational skills including a proven ability to work to deadlines.

Desiderable

- Practical experience in NGS library preparation.
- Practical expertise in microscopy and cell imaging techniques.
- Practical experience with mouse/animal experimentation.
- Good knowledge of English language.

Instructions

Interested candidates shall send CV at alessandro.carrer@vimm.it, along with arrangements for 2 letters of reference.