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Postdoctoral and fellowship positions

UBIAD1 and ferroptosis: exploring a cure for Schnyder Corneal Dystrophy (SCD)

The laboratory of Prof. Massimo Santoro at Dept. of Biology, University of Padua and Venetian Institute Molecular Medicine (<https://massimosantorolab.com>) is seeking for candidate to study the role of UBIAD1 enzyme in ferroptosis and Schnyder Corneal Dystrophy supported by Telethon.

Using human and mouse genetic approaches as well as advanced molecular and metabolic techniques we want to elucidate how **UBIAD1 and CoQ10** metabolism regulate the development of genetic diseases (Mugoni et al., Cell, 2013; Arlansbaeva et al., 2022). The project will focus on the development of a specific therapy for the **Schnyder Corneal Dystrophy (SCD)**, a genetic disease with currently no cure. Our laboratory has acquired strong experience in biochemistry, genetic, molecular and cellular biology of endothelial and mural cells in different vertebrate animal models and human primary cells. Mouse animal facility, single-cell and spatial transcriptomics, STED, multiphoton, light sheet microscopy and Atomic Force equipment, and metabolic/proteomic core facilities are available in the laboratory and department for these studies.

The **candidate** must be highly motivated, enthusiastic, and efficient researcher with a PhD in a relevant discipline and experience in genetic, molecular and cellular biology methods (priorities will give to candidates with already established expertise in mouse genetic). The candidate needs a publication record in peer-reviewed international journals (including at least one paper as a first author). The candidate must be capable of working in a team as well as independently. The candidate is expected to independently establish all necessary techniques, introduce new technology, coordinate ongoing collaborations, and instruct other scientists. Excellent communication skills in spoken and written English are required.

We offer a dynamic working environment, stimulating scientific surrounding in a young, enthusiastic, motivated team (with English as main language) and the opportunity to work on high-impact projects. We offer a competitive salary and social security contribution.

Contact

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