A two-year postdoctoral fellowship in the lab of Dr. Denis Martinvalet at the Venetian Institute of Molecular Medicine (VIMM), Padua - Italy

A two-year postdoctoral fellowship is available from March 2019 in newly opened lab of Dr. Martinvalet at VIMM to study the Role of Reactive Oxygen Species (ROS) in cytotoxic immunity against cancer cells.

Following the move of his laboratory from the University of Geneva (Switzerland) to the Dept. of Biomedical Sciences and the VIMM, University of Padua (Italy), Dr. Martinvalet is looking for a motivated, energetic, brilliant fellow to join a growing group of 4 colleagues dedicated to the study of the role of reactive oxygen species (ROS) in cytotoxic immunity against cancer cells.

Natural killer (NK) cells and cytotoxic T lymphocytes (CTL) are cytotoxic lymphocytes of the innate and adaptive immune system that eliminate cancer cells or pathogen-infected cells. Upon recognition, these cytotoxic lymphocytes attach to their target cells, form an immunological synapse, degranulate and ultimately trigger target cell death, a process highly dependent on the ROS production. For a sample of Martinvalet's lab research, see Martinvalet et al., **Cell** 2008; Jacquemin et al, **Cell Death Differ.** 2015; Chiusolo et al., **Cell Death Differ.** 2017; Bassoy et al **EMBO J.** 2017

The successful candidate will address the role of retrograde ROS signaling from dying target cells to CTL in the context of modulation of CTL activity against target cancer cells, in vitro and in vivo.

We are looking for a highly motivated postdoc with good experience in molecular and cell biology and biochemistry. Experience with in vivo cancer models would be considered a plus.

We offer a state-of-the-art lab and facilities, a thriving environment, an exciting research project and multiple occasions of interaction with top notch colleagues in the fields of mitochondrial pathophysiology, ROS and cancer biology. Salary will be commensurate with experience.

Interested candidates shall email Dr. Martinvalet (denis.martinvalet@unipd.it) a cover letter, a CV and names and emails of two references.