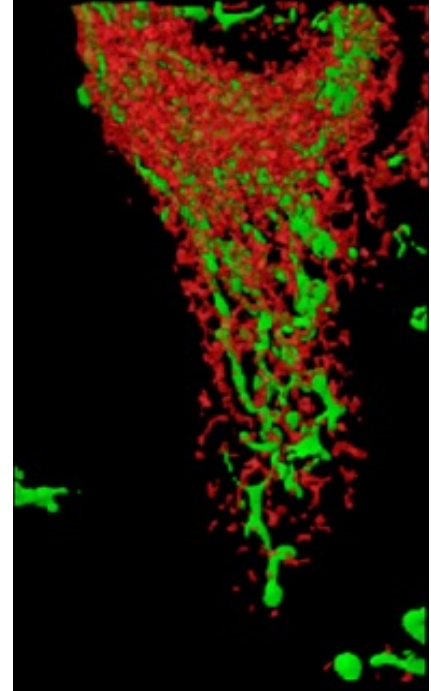


Post-doctoral and Ph.D. positions available

Two post-doctoral and **two Ph.D.** positions are available in the Rizzuto's lab for studying the pathophysiological role of MCU and mitoK_{ATP}, mitochondrial Ca²⁺ and K⁺ channels respectively, both identified by the research group (Nature 476, 336-340, 2011; Nature 572, 609-613, 2019). Biochemical, cell-based, and *in vivo* approaches are combined to study the physiological role of the mitochondrial channels, and their involvement in pathological processes in different tissues, including skeletal muscle, heart, and brain. Current projects also include the development of RNA-based therapies from the mechanistic insight of fundamental research.



The research activity of the recruited scientists will be focused on two projects:

- Study of MCU and mitoK_{ATP} in the modulation of the inflammatory process. Previous data have shown the upregulation of MCUb during inflammation and its role in macrophage polarization (Feno et al., Sci. Signal. 2021).
- Study of MCU in muscle physiology. Previous data indicate that MCU controls muscle trophism and metabolism through mitochondria-to-nucleus retrograde signalling (Mammucari et al., Cell Rep. 2015; Gherardi et al. Cell Death Differ. 2019).

For more information, email us (see addresses below).

Candidates with previous experience in mitochondrial biology, cell signaling, skeletal muscle and macrophage cell biology and immunology are encouraged to apply.

To apply, please send an e-mail with the CV including past education and training, a brief description of research interests, a list of publications, other scientific activities, and names and e-mail addresses of two references to Gaia Gherardi gaia.gherardi@unipd.it and Rosario Rizzuto rosario.rizzuto@unipd.it