MARTA GIACOMELLO

Telethon Research Associate
c/o Venetian Institute of Molecular Medicine (Padova, Italy)
Email: marta.giacomello@bio.unipd.it
Telephone: + 39 049 8276313

EDUCATION

October 18th, 2011: Degree in Cellular and Molecular Biology (University of Bologna, Italy).
April 23rd 2007: Ph.D. in Biotechnology; University of Padova (Italy)
July 3rd, 2003: Degree in Pharmaceutical Biotechnology; University of Padova (Italy); *cum laude honors*

PROFESSIONAL CAREER

2013-now: Telethon Research Associate - Venetian institute of Molecular Medicine (Padova, Italy).
2012: Senior Post Doctoral fellow -laboratory of prof. L. Scorrano, University of Geneva, Switzerland (Departement de physiologe cellulaire et metabolism, CMU).
2010-2011: Post Doctoral fellow - prof. E. Carafoli laboratory, Venetian Institute of Molecular Medicine and Dept of Biological Chemistry, University of Padova (Italy)
2008-2009: Post Doctoral fellow - laboratory of Prof. B. Cozzi; Dept of Experimental Veterinary Sciences, University of Padova (Italy)
2007-2008: Post Doctoral fellow - laboratory of Prof. T. Pozzan (Dept of Biomedical Sciences, University of Padova, Italy).
2004-2006: Ph.D. Student - laboratory of T. Pozzan, Dept of Biomedical Sciences, University of Padova, Italy.
2005: Visiting Scholar - laboratory of professor Roger Y. Tsien (Howard Hughes Medical Institute and Dept of Pharmacology; University of California, San Diego)

RESEARCH INTERESTS

Cell signaling; inter-organellar communication; pathology.

MAIN PUBLICATIONS

Scorzeto M, Giacomello M, Toniolo L, Canato M, Blaauw B, Paolini C, Protasi F, Reggiani C, Stienen GJ. Mitochondrial Ca^{2+}-handling in fast skeletal muscle fibers from wild type and calsequestrin-null mice. *PLoS One*. 2013;8:e74919

Santo-Domingo J, Giacomello M, Poburko D, Scorrano L, Demaurex N. OPA1 promotes pH flashes that spread between contiguous mitochondria without matrix protein exchange. *EMBO J.* 2013; 32:1927-40.

Giacomello M, Oliveros JC, Naranjo JR, Carafoli E. Neuronal Ca^{2+} dyshomeostasis in Huntington disease. *Prion*. 2013; 1;7.

Giacomello M, De Mario A, Primerano S, Brini M, Carafoli E. Hair cells, plasma membrane Ca^{2+} ATPase and deafness. *Int J Biochem Cell Biol.* 2012;44:679-83.

Giacomello M, Drago I, Bortolozzi M, Scorzeto M, GianelleA, Pizzo P and Pozzan T. Ca^{2+} hot spots on the mitochondrial surface are generated by Ca^{2+} mobilization from stores, but not activation of store operated Ca^{2+} channels. *Molecular Cell 2010; 38: 280-290.*

Canato M, Scorzeto M, Giacomello M, Protasi F, Reggiani C, Stienen GJ. Massive alterations of sarcoplasmic reticulum free calcium in skeletal muscle fibers lacking calsequestrin revealed by a genetically encoded probe. *Proc Natl Acad Sci U S A*. 2010; 107: 22326-22331.

Costa V, Giacomello M, Hudec R, Lopreiato R, Lim GE, Malorni V, Davies KJ, Carafoli E and Scorrano L. Mitochondrial fission and cristae disruption increase the response of cell models of Huntington's disease to apoptotic stimuli. *EMBO Mol Med* 2010; 2: 490-503

Giacomello M, Drago I, Pizzo P and Pozzan T. Mitochondrial Ca^{2+} as a key regulator of cell life and death. *Cell Death Differentiation.* 2007; 14: 1267-1274.

Palmer AE, Giacomello M, Kortemme T, Hires SA, Lev-Ram V, Baker D, and TsienRY. Ca^{2+} indicators based on computationally-redesigned calmodulin-peptide pairs. *Chemistry and Biology*, 2006; 13:521-30.