

Pubblicazioni più rilevanti

1. L. Scorrano, M. Ashiya, K. Buttle, S. Weiler, S.A. Oakes, C.A. Mannella and S.J. Korsmeyer, *A Distinct Pathway Remodels Mitochondrial Cristae and Mobilizes Cytochrome c during Apoptosis*. **Dev. Cell** 2: 55-67 (2002).
2. L. Scorrano*, S.A. Oakes*, J.T. Opferman, E.H. Cheng, M.D. Sorcinelli, T. Pozzan and S.J. Korsmeyer. *BAX and BAK Regulation of Endoplasmic Reticulum Ca²⁺: A Control Point for Apoptosis*. **Science** 300: 135-139 (2003).
3. S. Cipolat, O. Martins de Brito, B. Dal Zilio and L. Scorrano *OPA1 requires mitofusin 1 to promote mitochondrial fusion*. **Proc. Natl. Acad. Sci. U S A**. 101:15927-32 (2004).
4. S. Cipolat*, T. Rudka*, D. Hartmann*, V. Costa, L. Serneels, K. Craessaerts, K. Metzger, C. Frezza, W. Annaert, L. D'Adamio, C. Derks, T. Dejaegere, L. Pellegrini, R. D'Hooge, and L. Scorrano[‡], B. De Strooper[‡]. [‡]**corresponding authors**. *Mitochondrial rhomboid PARL regulates cytochrome c release during apoptosis via OPA1 dependent cristae remodeling*. **Cell** 126:163-75 (2006)
5. C. Frezza, S. Cipolat, O. Martins de Brito, M. Micaroni, G.V. Beznoussenko, T. Rudka, D. Bartoli, R.S. Polishuck, N.N. Danial, B. De Strooper and L. Scorrano. *OPA1 Controls Mitochondrial Cristae Remodelling Independently from Mitochondrial Fusion During Apoptosis*. **Cell** 126:176-89 (2006)
6. C. Frezza, S. Cipolat and L. Scorrano. *Organelle Isolation: functional mitochondria from mouse liver, muscle and cultured fibroblasts*. **Nature Prot.** 2:287-95 (2007)
7. G.M. Cereghetti, A. Stangherlin, O. Martins de Brito, C.R. Chang, C. Blackstone, P. Bernardi and L. Scorrano *Dephosphorylation by calcineurin regulates translocation of Drp1 to mitochondria*. **Proc. Natl. Acad. Sci. USA**. 105:15803-15808 (2008).
8. O. Martins de Brito and L. Scorrano *Mitofusin 2 tethers mitochondria and endoplasmic reticulum*. **Nature** 456:605-10 (2008).
9. C. Cerqua, V. Anesti, A. Pyakurel, D. Liu, D. Naon, R. Baffa, G. Wiche, K.S. Dimmer and L. Scorrano *Trichoplein/Mitostatin regulates ER-mitochondria juxtaposition*. **EMBO Rep.** 11:854-60 (2010)
10. V. Costa, M. Giacomello, R. Hudec, R. Lopreiato, G. Ermak, D. Lim, W. Malorni, K.J.A. Davies, E. Carafoli, and L. Scorrano *Mitochondrial fission and cristae disruption increase the response of cell models of Huntington's disease to apoptotic stimuli*. **EMBO Mol. Med.** 2:490-503. (2010)
11. L. Gomes, G. Di Benedetto and L. Scorrano *During autophagy mitochondria elongate, are spared from degradation and sustain cell viability*. **Nat. Cell. Biol.** 13:589–598 (2011)
12. Wasilewski, M., Semenzato, M., Rafelski, S.M., Robbins, J., Bakardjiev, A.I., and L. Scorrano (2012). *Optic atrophy 1-dependent mitochondrial remodeling controls steroidogenesis in trophoblasts*. **Curr. Biol.** 22, 1228-1234.
13. S. Cogliati, C. Frezza, M.E. Soriano, T. Varanita, R. Quintana Cabrera, M. Corrado, S. Cipolat, V. Costa, A. Casarin, L.C. Gomes, E. Perales-Clemente, L. Salviati, P. Fernandez-Silva, and J.A. Enriquez, L. Scorrano. (2013) *Mitochondrial cristae shape determines respiratory chain supercomplexes assembly and respiratory efficiency*. **Cell**;155:160-71
14. A. Kasahara, S. Cipolat, Y. Chen, and G.W. Dorn 2nd, L. Scorrano. (2013) *Mitochondrial fusion directs cardiomyocyte differentiation via calcineurin and Notch signaling*. **Science** 342:734-7
15. V. Debattisti, D. Pendin, E. Ziviani, A. Daga, and L. Scorrano. *Reduction of endoplasmic reticulum stress attenuates the defects caused by Drosophila mitofusin depletion*. **J Cell Biol.** 204:303-12 (2014)
16. T. Varanita, M.E. Soriano, V. Romanello, T. Zaglia, R. Quintana Cabrera, M. Semenzato, R. Menabò, V. Costa, G. Civiletto, P. Pesce, C. Viscomi, M. Zeviani, F. Di Lisa, M. Mongillo, M. Sandri, and L.

Scorrano *The Opa1-dependent mitochondrial cristae remodeling pathway controls atrophic, apoptotic and ischemic tissue damage.* **Cell Metab.** 21:834-44 (2015)

17. G Civiletto*, T Varanita*, Cerutti R, Gorletta T, Barbaro S, Marchet S, Lamperti C, Viscomi C and L. Scorrano‡, M. Zeviani‡. ***corresponding authors** *Opa1 overexpression ameliorates the clinical phenotype of two mitochondrial disease mouse models.* **Cell Metab.** 21:845-54 (2015)
18. Naon D, Zaninello M, Giacomello M, Varanita T, Grespi F, Lakshminaranayan S, Serafini A, Semenzato M, Herkenne S, Hernández-Alvarez MI, Zorzano A, De Stefani D, Dorn GW 2nd, Scorrano L. *Critical reappraisal confirms that Mitofusin 2 is an endoplasmic reticulum-mitochondria tether.* **Proc Natl Acad Sci U S A.** 113:11249-11254. (2016)
19. Glytsou C, Calvo E, Cogliati S, Mehrotra A, Anastasia I, Rigoni G, Raimondi A, Shintani N, Loureiro M, Vazquez J, Pellegrini L, Enriquez JA, Scorrano L‡, Soriano ME‡. ***corresponding authors** *Optic Atrophy 1 Is Epistatic to the Core MICOS Component MIC60 in Mitochondrial Cristae Shape Control.* **Cell Rep.** 17:3024-3034. (2016)
20. Tezze C, Romanello V, Desbats MA, Fadini GP, Albiero M, Favaro G, Ciciliot S, Soriano ME, Morbidoni V, Cerqua C, Loeffler S, Kern H, Franceschi C, Salvioli S, Conte M, Blaauw B, Zampieri S, Salviati L, Scorrano L‡, Sandri M‡. ***corresponding authors** *Age-Associated Loss of OPA1 in Muscle Impacts Muscle Mass, Metabolic Homeostasis, Systemic Inflammation, and Epithelial Senescence.* **Cell Metab.** 25:1374-1389. (2017)