

Special Issue

The Physiological and Pathological New Function of Mitochondrial ROS and Intraorganellar Cross-Talks

Message from the Guest Editors

Thijsj G. Rtteema described “Mitochondria in the second act”, citing Pittis and Gabaldón (page 101), who provide evidence that the host cell from which eukaryotes evolved was already genetically chimaeric before the mitochondrial symbiosis, suggesting that mitochondria evolved later in eukaryotic evolution than was previously presumed (<https://www.nature.com/articles/nature16876>; Nature volume 531, pages 39–40 (03 March 2016)). This means that when mitochondria are established, it is possible to commence cross-talk between mitochondria and other organelles. [...] A recent study has described that ROS generated from mitochondria initiate cellular transduction in cytosol (Indo et al. Handb Exp Pharmacol. 2017). In this Special Issue, the further roles of mitochondria-generated ROS and the subsequent intraorganellar cross-talks, signal exchange, and protein import will be important to retain cellular networks and homeostasis. We aim to establish a new world of cellular functions.

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