

Special Issue

Advances in Mitochondrial Biology

Message from the Guest Editors

Mitochondria play a fundamental role in regulating the life processes of eukaryotic cells. Mitochondria host several anabolic pathways, including the synthesis of amino acids, lipids, ubiquinone, heme, steroid hormones and Fe–S clusters. Furthermore, they are a part of a vast network of cellular processes, which include the exchange of metabolites, nucleotides, membrane lipids and ions with other subcellular compartments, as well as the import of macromolecules (e.g., proteins and RNA). In addition to the aforementioned functions, novel cellular activities dependent on mitochondria are constantly being reported. Intriguingly, as descendants of a bacterial endosymbiont, mitochondria have retained their own genome (mtDNA) and exhibit a complex gene expression system, dependent on proteins encoded by nuclear genes. This Special Issue aims to collect and report recent advances in the field of mitochondrial biology. Articles and reviews focusing both on biochemical aspects and the molecular mechanisms underlying mitochondrial function in health and disease are welcome.

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Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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