

Special Issue

Mitochondria as a Core of Cell Signals

Message from the Guest Editor

Mitochondria are highly dynamic organelles that serve as a metabolic core wherein catabolic pathways converge upon fuel cells and building blocks for the synthesis of essential cell components. Reactive oxygen species and lipid peroxidation products function as powerful signalling molecules. Cytochrome c and other proapoptotic factors can activate cell death.

Mitochondrial DNA mediates inflammatory responses. Further, tricarboxylic acid cycle metabolites released from mitochondria play a broad variety of nonmetabolic roles. In this collection, we will present an updated view of the role of mitochondria as a core for signalling routes involved in distinct pathological processes including cancer, neurodegenerative syndromes, and diseases. How accumulated knowledge on these processes is aiding the creation of novel therapeutic approaches will be also discussed.

Guest Editor

Dr. Antonio Díaz-Quintana

Institute for Chemical Research (IIQ), University of Seville - CSIC, Avda. Américo Vespucio 49, 41092 Sevilla, Spain

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4052 Basel, Switzerland
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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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