Special Issue

Mitochondrial Metabolism and Function in Health and Disease

Message from the Guest Editors

Mitochondria are involved in multiple functions in the cell, including energy metabolism, calcium homeostasis, regulation of redox status, and cell death, among others. Thus, the maintenance of mitochondrial homeostasis is critical for cell survival and is tightly regulated by several processes, including mitochondrial biogenesis, mitochondrial dynamics, and mitophagy. This way, the mitochondrial network is continuously restructured while damaged mitochondria are removed, keeping a healthy pool of mitochondria. Mitochondrial dysfunction can occur when one or more of these processes is altered and can ultimately compromise cell metabolism and function. It has been described that mitochondrial dysfunction contributes to several diseases, such as cancer, obesity, or diabetes, and has also been involved in the hallmarks of aging. We invite authors to submit original research papers and review articles analyzing the contribution of mitochondrial metabolism and function to the development of different pathologies and potential therapeutic strategies to counteract mitochondrial dysfunction.

Guest Editors

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Deadline for manuscript submissions

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