

Special Issue

Mitochondria-Targeted Approaches in Health and Disease

Message from the Guest Editor

Mitochondria are one of the most intriguing intracellular elements. Apart from their great contribution to cellular bioenergetics, they perform various unique functions (both synthetic and regulatory). Inherited or acquired mitochondrial dysfunction caused by changes in the genetic, lipidic, and proteinaceous content causing abnormal changes in structure and functions, can be detrimental or even fatal for a cell. The intrinsic mechanism of mitochondrial quality control realizes the detection of unfitted mitochondria or their elements with their elimination from the cell, ultimately performing clearing the system of abnormal mitochondrial structures. However, because of intrinsic and extrinsic challenges, this machinery misses the mitochondrial defects yielding the co-existence of normal and abnormal mitochondria within a single cell, which is a main index of diseases and aging. The goal of the proposed Special Issue, Mitochondria-Targeted Approaches in Health and Disease, is to collect all of the possible methods of intervention into mitochondrial functioning, so as to prevent or repair unwanted changes in the mitochondrial structure and function.

Guest Editor

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