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The Pathomechanism of Mitochondrial Diseases

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Message from the Collection Editor

Mitochondrial diseases are a heterogenous group of common inborn errors of metabolism, originating from pathogenic variants in the mitochondrial or nuclear genome, resulting in respiratory chain deficiency, mostly with devastating consequences. Moreover, mitochondrial dysfunction is associated with numerous other pathological conditions, including neurodegenerative diseases, diabetes, cancer, immune dysfunction, and heart and kidney diseases.

Although next-generation sequencing (NGS) techniques are a game changer in the diagnosis of mitochondrial diseases, they have not signtificantly resulted in providing better treatment options, which are presently very limited. Studying the patomechanistic aspects (cell biology and physiology, molecular biology, and biophysics) of the individual diseases in cellular and animal models is a vital step towards developing more effective treatments.

The aim of this Special Issue is to broaden knowledge and understanding of the various pathomechanisms involving mitochondrial dysfuction in disease, including evaluating the effect of small molecules and other treatments in model systems.

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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