Special Issue

Mitochondrial Genetics

Message from the Guest Editor

There is increased interest to understand the role of the mtDNA in human disease pathologies because in addition to energy production and redox status, the mtDNA plays an important role in retrograde signaling that modulates the nuclear genome. However, it is vital to gain greater understanding of the contribution that the mitochondrial genome has on the development and progression of human diseases. The aim of this Special Issue is to provide a comprehensive overview of various aspects of the mtDNA, including (a) methods available for sequencing, classifying haplogroups and identifying low level heteroplasmy variants, (b) cell culture and animal models to determine the functional consequences of having mtDNA variants, and (c) potential treatments to regulate and restore the dysfunctional mtDNA associated with human diseases. We hope that the experts in the mitochondrial medicine community will contribute creative, practical information that moves our field forward and provides open communication amongst our colleagues.

Guest Editor

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Deadline for manuscript submissions

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Message from the Editorial Board

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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