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Mitochondrial Genetics

Guest Editor:

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Deadline for manuscript
submissions:

closed (28 February 2019)

Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Maria Cristina Kenney
Guest Editor



mdpi.com/si/18496

Special Issue



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