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Mitochondrial Genomes: Genetic and Transcriptomic Studies

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Deadline for manuscript submissions:
closed (15 January 2019)

Message from the Guest Editors

Dear Colleagues,

Mitochondria are small double membraned-bound organelles found in almost every cell of all organisms. They are primarily responsible for energy production. The human mitochondria genome is a double-stranded circular DNA molecule, consisting of 16,569 nucleotides. Mitochondrial DNA variants have been linked to various diseases and important biological processes, such as cancer, aging, etc. Mitochondrial research is on the rise across multiple fields in the medical sciences. Especially with the rise of high throughput sequencing, researchers now can examine mitochondria genome at unprecedented details. In this special issue, we would like to invite researchers to share their latest work on the following (but not limited to) mitochondria-related topics:

- Mitochondrial sequence analysis
- Mitochondrial mutations related to diseases or trait
- Mitochondrial mechanisms related to diseases or trait
- Mitochondrial heteroplasmy analysis
- Biotechnology aspects related mitochondria research
- Bioinformatics, statistical aspects of mitochondria research

Prof. Yan Guo
Dr. Sergey Ivanov
Guest Editors

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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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