

## Special Issue

# Alterations in mtDNA and Mitochondrial Quality Control

### Message from the Guest Editors

Mitochondria have their own DNA (mtDNA) that can be damaged by endogenous and exogenous agents, leading to the appearance of various types of genetic alterations (mutations, abasic sites, double-strand and single-strand breaks, modified bases) that can compromise, at different levels, the organelle's functionality. To prevent such a dangerous cascade, several quality control processes, including mtDNA repair and replication, mitochondrial dynamics, and mitophagy, have been developed. Knowledge of this large array of quality control processes is constantly growing as progressive studies unveil their reciprocal and tight relationships together with the pathologies arising from defects in any of them. The goal of this Special Issue, dedicated to "Alterations in mtDNA and Mitochondrial Quality Control", is to provide a broad and updated overview of this fast-moving field that might allow useful comparisons and be inspiring for future developments. Therefore, contributions by experts of the field in the form of research papers and critical reviews are called for.

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### Guest Editors

Dr. Angela Maria Serena Lezza

Dr. Vito Pesce

Prof. Dr. Guglielmina Chimienti

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### Deadline for manuscript submissions

closed (20 July 2021)

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## Genes

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*Genes* is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving 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. Why not consider *Genes* for your next genetics paper?

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### Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan  
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