



Mitochondrial DNA and RNA in Human Disease

Guest Editor:

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Message from the Guest Editor

A greater understanding of the mechanisms of mtDNA expression is clearly necessary to unravel the complex role of mitochondria in human disease and aging. Among these nuclear encoded proteins are factors required for mitochondrial transcription, RNA processing, and translation. It would be remarkably interesting to discuss the most recent advances in our understanding of the post-transcriptional processes of mtDNA gene expression, which represents an emerging field of research—in particular, the recent discovery of novel factors required for modification and maturation of mtRNAs, the characterization of mtRNA granules as sites for organization of mtRNA processing, the biogenesis and composition of the mitoribosomes, and the coordination required for concerted nuclear and mitochondrial gene expression.

Keywords

- mitochondria
- RNA processing
- RNA granules
- mitoribosomes





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Message from the Editor-in-Chief

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