

## Special Issue

# Molecular Evolution of the Mitochondrial DNA in Animals

### Message from the Guest Editors

The mitochondrial genome (mtDNA) is a compact molecule, usually containing a conserved set of (37) genes, that occurs in multiple copies within the mitochondria of most multicellular organisms. Despite recent progress in the sequencing and analysis of nuclear genomes, mitogenomes still play a crucial role in the study of both non-bilaterian and bilaterian animal evolution, with the greatest impacts in the fields of molecular phylogeny, population genomics, and genome evolution.

This Special Issue of *Genes* will cover all aspects of biogeography, phylogenetics, and genome evolution in key, as well as less known, taxa based on the comparison of mitochondrial DNA data. Studies on large sets of mtDNA sequences are welcome, as well as meta-analyses on genomic features (e.g., nucleotide composition, codon bias, and gene order) focusing on specific lineages of the animal kingdom. This Special Issue is especially dedicated to collecting new data from researchers that have contributed to the investigation of the systematics, diversity, and molecular evolution of animal lineages using mitogenomic data.

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### Guest Editors

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### Deadline for manuscript submissions

closed (30 December 2020)

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## Genes

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### Message from the Editor-in-Chief

*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

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