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DNA Taxonomy, Molecular Phylogeny and Population Genetics of Cartilaginous Fishes and Teleost Fishes

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Message from the Guest Editors

Dear Colleagues,

During the past decade, the remarkable increase in cartilaginous and teleost fishes genome sequencing has revolutionized molecular phylogeny and population genetics, with the outcome of stimulating insights into fish conservation biology. The IUCN Red List states that 30% of chondrichthyans are threatened by extinction, and overfishing is considered the main threat to their existence. Genetic approaches play an essential role in shark conservation; there has been some progress, but a great deal of work still lies ahead. Cartilaginous fish genomic sequences can be compared with other Osteichthyes to trace species' evolutionary history and origin as well as phylogenetic relationships. Understanding the heritability of conservation biology requires a more comprehensive assessment of fish genetic variation. This Special Issue of *Genes* on “DNA Taxonomy, Molecular Phylogeny and Population Genetics of Cartilaginous Fishes and Teleost Fishes” aims to provide an overview of recent developments in this field of research, including critical perspectives on current and upcoming challenges.

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Guest Editors



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Special Issue



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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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