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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 Editor

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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Special Issue



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Message from the Editor-in-Chief

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