Special Issue

Zebrafish Pathology and Contaminant Pathological Effects

Message from the Guest Editors

The zebrafish (*Danio rerio*) has been extensively used as an animal model in various fields of biomedical research. Zebrafish peculiarities such as small size, lower cost of housing and breeding systems, high fertility, and short generational intervals, in addition to egg transparency, allow them to be an experimental model for research studies in different topics, such as aging, infectious or inflammatory diseases, developmental biology, phenotype-based drug discovery, and toxicology. Zebrafish genome sequencing outcomes have shown how this small fish shares about 70% of orthologous protein encoding genes with humans. This teleost also has well-conserved structures and molecular mechanisms, particularly gastrointestinal, hematopoietic, neurological, and immunological systems, which is why it is widely used in translational research, particularly as model for neurological disorders, cardiovascular diseases, hematological disorder, muscle disease and cancers, anxiety, Parkinson's disease, and post-traumatic stress disorder. Moreover, zebrafish embryos are a validated models for fish embryo toxicity test (FET) and developmental studies.

Guest Editors

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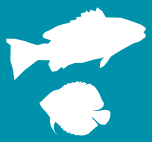

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About the Journal

Message from the Editor-in-Chief

Fishes is a multidisciplinary open access journal focusing on reports of original research and critical reviews and synthesis from the broad area of fishes and aquatic animals. The ultimate objective of *Fishes* is to facilitate the discovery of connections between research areas, advancing science and filling knowledge gaps, and providing solutions for all present and future issues encountered in the sector of fisheries and aquaculture. As Editor-in-Chief, I encourage you to consider *Fishes* for your scientific papers and would be pleased to welcome you as one of our authors.

Editor-in-Chief

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