



Zebrafish Pathology and Contaminant Pathological Effects

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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.





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Message from the Editor-in-Chief

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