



animals



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Recent Progress in Zebrafish Research

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Message from the Guest Editors

Zebrafish is crucial for modern research, currently representing the second most used model organism worldwide. This species has been used in research since the 1970s, and its applications have escalated ever since its genome was fully sequenced, revealing around 70% of orthologue genes to humans, and the development of target mutagenesis technologies. In recent decades, the scientific community has generated several thousands of transgenic, mutant and wild-type zebrafish lines. These lines are valuable models used on edge research of pressing matters such as toxicology, embryology, genetics, drug development, and human diseases. Today, zebrafish is ubiquitously used in laboratories worldwide; however, there is a noteworthy lack of knowledge on this species' biology, such as nutrition, husbandry, and behavior, which are essential to establish standardization guidelines crucial for model species, due to their impact on experimental variability. Since 2019, the number of publications in zebrafish research has escalated, targeting not only its usage as a model and the development of new molecular technologies but also the understanding of this species' biology.



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Message from the Editor-in-Chief

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