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Zebrafish-Based Drug Screening

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Message from the Guest Editors

Danio rerio, a small teleost commonly known as zebrafish, has emerged as a powerful model organism for studying a wide variety of human diseases over the last few decades due to its small size, high fecundity, and genetic and genomic similarity to humans. Especially phenotype-based zebrafish testing, the so-called “zebrafish screening”, has been actively utilized to identify drug target molecules and therapeutic compounds in combination with various high-throughput technological innovations, such as high-content imager, large-scale behavior analysis, robotics, and bioinformatics. This Special Issue is intended to provide a forum to discuss zebrafish screening from broader perspectives, ranging from the creation of human diseases models, technologies harnessing these as a model organism, and their uses for drug discovery. Review articles by experts in the field would be particularly welcome.



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Special Issue



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Message from the Editor-in-Chief

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