Special Issue

Zebrafish-Based Drug Screening

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.

Guest Editors

Prof. Dr. Yasuhito Shimada

Department of Integrative Pharmacology, Mie University Graduate School of Medicine, Tsu, Mie, Japan

Prof. Dr. Herman P. Spaink

Animal Sciences and Health, Institute of Biology Leiden (IBL), Leiden University, 2333CC Leiden, The Netherlands

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Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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