Zebrafish as a Powerful Tool for Drug Discovery 2023

Guest Editor:

Prof. Dr. Yuhei Nishimura
Department of Integrative Pharmacology, Mie University Graduate School of Medicine, Tsu 514-8507, Japan

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Message from the Guest Editor

It has been widely recognized that zebrafish can be powerful tools in the drug discovery field, given advantages
such as high fecundity, ease of drug administration, similarity to mammals in terms of structures and functions
of various tissues, and suitability for the 3Rs. Using genome-editing technologies, genetic abnormalities
observed in human diseases can be mimicked in zebrafish to make a disease model. The phenotypes of the disease
model zebrafish can be used to identify novel compounds and/or new indications for old drugs that ameliorate the
abnormal phenotypes of the zebrafish disease models. The toxicity of compounds can also be assessed using
zebrafish. In fact, the International Council for Harmonization has considered including developmental
toxicity testing using zebrafish in their guidelines. Zebrafish can also be integrated to validate the efficacy and toxicities of compounds that are identified as novel therapeutics by other approaches, such as computational drug discovery using big data. In this Special Issue, we invite authors to contribute articles focusing on zebrafish as powerful tools for drug discovery.

Special Issue

Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter
Departamento de Química e Bioquímica (DQB) e Centro de Química e Bioquímica (CQB), Faculdade de Ciências, Universidade de Lisboa (FCUL), Rua Ernesto de Vasconcelos, Campo Grande,Edifício C8, 5º Piso, 1749-016 Lisboa, Portugal

Message from the Editor-in-Chief

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