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Zebrafish as a Powerful Tool for Drug Discovery

Guest Editor:

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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.

Prof. Yuhei Nishimura
Guest Editor

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