



## Zebrafish-Based Drug Discovery

Guest Editor:

**Prof. Dr. Yasuhito Shimada**

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

Deadline for manuscript  
submissions:

**closed (31 August 2023)**

### Message from the Guest Editor

Dear Colleagues,

Zebrafish (*Danio rerio*) is contributing to speeding up drug discovery in a range of areas, including phenotype-based screening using disease models (so-called “zebrafish screening”), target molecule discovery, validation of the results of cell studies before clinical trials, and toxicological evaluation. As a result, many drug candidates, first-in-class drugs, and several drugs for off-label use have been discovered using zebrafish over the past 10 years. This Special Issue provides a forum to discuss zebrafish-based drug discovery from broader perspectives, including the creation of human disease models, technologies harnessing these as model organisms, and their use for drug or drug candidate identification. Review articles by experts in the field are particularly welcome.

Prof. Dr. Yasuhito Shimada  
*Guest Editor*





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical  
Biology and Phytochemistry,  
University of Münster,  
Corrensstrasse 48, D-48149  
Münster, Germany

## Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

## Contact Us

*Molecules* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/molecules](http://mdpi.com/journal/molecules)  
[molecules@mdpi.com](mailto:molecules@mdpi.com)  
[X@Molecules\\_MDPI](https://twitter.com/Molecules_MDPI)