

Special Issue

Zebrafish as a Model for Biomedical Studies

Message from the Guest Editor

In the 1950s, the zebrafish emerged as a model for studying early development but was rapidly used in broader research fields. The success of the zebrafish in research is mainly due to the attributes that make it an exceptional experimental model. The zebrafish genome is fully sequenced, and a comparison to the human reference genome revealed that about 84% of genes involved in human diseases have a zebrafish orthologue. Over the last two decades, the zebrafish has continued to increase in popularity, becoming increasingly used to investigate human disease mechanisms, to model human pathologies, and for drug discovery. At present, the zebrafish model is largely applied to the biomedical field in order to study a wide range of human diseases including developmental syndromes, metabolic defects, neurological and behavioral disorders, cancer, and host–microbe interactions. The goal of this Special Issue is to present the current knowledge on the use of the zebrafish model in biomedical research in order to decipher the molecular mechanisms responsible for human diseases and to set up rational strategies for drug discovery.

Guest Editor

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