



## Evolution and Diversity of Transposable Elements in Fish Genomes

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Deadline for manuscript submissions:

**closed (15 June 2022)**

### Message from the Guest Editors

Studies performed to date provide evidence of the presence of many TE superfamilies in actinopterygians, with a prevalence of class II DNA transposons. Moreover, in ray-finned fish, specific TEs that have been hypothesized to be the result of an intricate relationship between TE evolution and the environment have also been reported. Therefore, the presence of mobile elements in ray-finned fish genomes most likely contributes to shaping their genomes, providing advantageous features that would allow them to successfully adapt to different environments. However, due to the high number of species and their different features related to different lifestyles, TEs and their role in genome evolution are not yet completely understood. Therefore, further studies in this field of research are necessary.

For this Special Issue, we invite original manuscripts on the characterization of TEs, TE evolution, the role of mobile elements in genome evolution, the influence of TEs on transcriptional activity, and their role related to adaptation to environmental conditions. Moreover, studies on TEs conducted through genomic and transcriptomic high-throughput sequencing are welcome.





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