

## Special Issue

# Epigenetic Regulation in Teleost Development

### Message from the Guest Editor

Embryonic and larval development is one of the most important periods during the life cycle and requires numerous events to be accurately orchestrated. The malfunction during development may result in poor growth, massive mortality, malformations, or simple developmental delays. While gene expression studies have been conducted in several fish species, investigations regarding epigenetically regulated genes during development are still in their infancy. To date, three major mechanisms have been documented: i) DNA methylation, ii) histone covalent modifications, and iii) non-coding RNAs. DNA methylation and histone modifications interfere with the transcription machinery by modulating the accessibility and the chromatic structure, while non-coding RNAs are mostly associated with post-transcriptional regulation. The rapid technological progress concerning sequencing methods and advanced molecular protocols, along with the improved computing power and the growing bioinformatics community, allows the in-depth investigation of teleost development. The purpose of this Special Issue is to collect state-of-the-art work exploring the epigenetic mechanisms during teleost development.

### Guest Editor

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### Deadline for manuscript submissions

closed (25 August 2023)

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