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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Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

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