

Special Issue

Transcriptome and Genome Analyses Applied to Aquaculture Research

Message from the Guest Editor

The lowering cost of the next-generation sequencing (NGS) strategies in recent years has allowed the genome sequencing of numerous fish and shellfish species with relevance in the aquaculture industry. This represents an important tool for geneticists, since the availability of whole genomes facilitates the search for genetic markers or genes associated with different traits of interest. Massive transcriptome analyses have also become indispensable to study different questions of interest (nutrition, growth, disease resistance, reproduction, etc.) but, in addition to the study of the mRNA expression, the role of the non-coding RNAs (especially miRNAs and lncRNAs) in these aspects has received reached great interest in the last few years. Moreover, the study of the epigenome and the implications of epigenetic modification under certain conditions is being rapidly expanded to aquaculture research. This Special Issue welcomes papers on the genomics, epigenomics, and transcriptomics of fish and shellfish species of interest in aquaculture. Manuscripts focusing on high-throughput methodologies will be appreciated.

Guest Editor

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