



Molecular Sexual Determination and Differentiation in Fishes

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Message from the Guest Editor

Dear Colleagues,

Many aspects of the genes involved in sexual determination and differentiation are still unknown, and there are no molecular markers for sex identification in many species. The process of determining sex is a complex one, controlled by a large number of genes, which are influenced by various genetic and environmental factors. In some vertebrates, sex chromosomes differ between males and females, whereas in others there is no difference. Genital development is also monitored by genes that encode various hormones, which bind to receptors and initiate various biological processes. The structure, mechanism, and expression of genes in the processes of differentiation and sex determination are the focus of this Special Issue, with particular attention paid to the differences between males and females. Studying the variation in the sex-based differences in genomic sequences and in the gene expression of vertebrates has important theoretical applications, and warrants further research.





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Message from the Editor-in-Chief

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