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Natural and Environmental Sex Reversal in Aquatic Animals

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Message from the Guest Editors

Sex determination and differentiation is a basic scientific question that attracts great research attention from biologists. Fish is the largest and oldest group of vertebrates. The fish sex system includes gonochorism and hermaphroditism. The majority of the fish species are the former type. Fish exhibits sex plasticity as natural and environmental- factors induce sex reversal. Brain-pituitary-gonadal axis plays an important role in controlling fish sex reversal. The fish's sex is determined by genetic factors, environmental, or a combination of both factors. Many genes, hormones, non-coding RNAs, and other factors participate in the sex reversal processes. In aquaculture, mono-sex culture could improve the culturing efficiency of some fish. Studies focused on the mechanisms of fish sex reversal could help develop sex control technology for aquaculture. This special issue aims to collect studies (original research articles, perspectives, reviews, and mini-reviews) that focus on sex reversal in wild and cultured fish. Also studies that focus on sex determination and differentiation of fish are also considered. We are looking forward to your new findings in this area.



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Special Issue



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Message from the Editor-in-Chief

Fishes is a multidisciplinary open access journal focusing on reports of original research and critical reviews and synthesis from the broad area of fishes and aquatic animals. The ultimate objective of *Fishes* is to facilitate the discovery of connections between research areas, advancing science and filling knowledge gaps, and providing solutions for all present and future issues encountered in the sector of fisheries and aquaculture. As Editor-in-Chief, I encourage you to consider *Fishes* for your scientific papers and would be pleased to welcome you as one of our authors.

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