

# Special Issue

## Sex Difference in Fish

### Message from the Guest Editors

With over 36,000 recognized species, fish display all types of sexual dimorphism, including morphology, size, sex differentiation, gonadal development, behavior, physiological response, immunity, aquaculture value, and diverse reproductive strategies compared to other taxa. This great biological diversity makes fish one of the best resource libraries for studying these fascinating topics. Understanding sexual dimorphism in fish is crucial in biological and ecological studies. In particular, in the context of climate change, determining how the two sexes of fish cope with stressful environments, such as differences in survival, sex reversal (masculinization), and the resulting sex ratios, is vital for the protection of natural populations. The flexibility and diversity of sex determination and sex differentiation not only offer excellent opportunities to understand the origin and maintenance of sex in fish, but also produce mono-sex populations for aquaculture and research studies. Advances in genomics, transcriptomics, epigenomics, metabolomics, and other omics have added a vast amount of information with which to decode the differences between sexes.

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### Guest Editors

Dr. Zhigang Shen

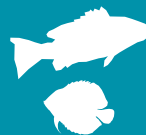
Dr. Yan He

Dr. Weihua Hu

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### Deadline for manuscript submissions

30 November 2024



## Fishes

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. Maria Angeles Esteban

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