

## Special Issue

# Population Genomics for Freshwater Fish Conservation: From Markers to Management

### Message from the Guest Editors

Freshwater ecosystems host a remarkable proportion of global vertebrate biodiversity yet face accelerating threats from habitat fragmentation, pollution, and climate change. Robust conservation strategies therefore demand an integrated understanding of demographic history, adaptive potential, and contemporary gene flow in freshwater fishes. This Special Issue invites original research and reviews that apply modern population genetic and genomic techniques from microsatellites and mitochondrial barcodes to RAD-seq, whole genome resequencing, and environmental DNA to resolve key questions in freshwater fish conservation. Topics include, but are not limited to, demographic reconstruction, effective population size estimation, population genomics, adaptive introgression, hybridization risk, eDNA-based monitoring, and genomic tools for captive breeding or stocking programs. By bridging traditional markers with high-throughput sequencing, we aim to provide a comprehensive reference that will guide evidence-based management and policy.

### Guest Editors

Dr. Kang-Rae Kim

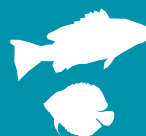
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### Deadline for manuscript submissions

1 March 2026



## Fishes

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4052 Basel, Switzerland

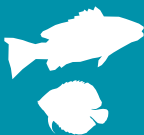
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## About the Journal

### 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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