

Special Issue

Developmental Genetics of Adaptation in Aquatic Animals

Message from the Guest Editor

Aquatic animals exhibit remarkable adaptations to diverse environments, including alkalinity, salinity, hypoxia, pollution, and heavy metals. Understanding the developmental genetic mechanisms underlying these adaptations provides crucial insights into evolutionary biology, ecological resilience, and species conservation. This Special Issue invites original research and reviews exploring the genetic and developmental bases of adaptive traits in aquatic animals. Topics may include gene regulatory networks, epigenetic modifications, plasticity, and evolutionary developmental biology in fish, mollusks, crustaceans, and other aquatic species. By integrating GWAS, transcriptomics, and functional assays, this Special Issue aims to advance our knowledge of how developmental processes drive adaptation in dynamic aquatic ecosystems. Contributions from interdisciplinary studies are highly encouraged.

Guest Editor

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Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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