

Special Issue

Sex-Determining Genes in Aquatic Animals

Message from the Guest Editor

Sex determination (SD) is a fundamental biological process that ensures the appropriate sex ratio for reproductive success and facilitates the removal of defective alleles from natural populations. In species with genetic sex determination, males and females have different alleles or even different genes that specify their sexual morphology. The identification of sex-determining genes and exploration of the involved regulatory network in aquatic animals are vital for broader ecological and evolutionary research. Research on sex-determining genes in aquatic animals is necessary for manipulating sex ratios in aquaculture species, which is crucial for optimizing breeding programs, improving production efficiency and reducing costs. In recent decades, remarkable progress has been made in the fields of genetics and genomics, which has facilitated the identification of genes and definition of molecular mechanism involved in sex determination and differentiation in aquatic animals. For this Special Issue, we will present state-of-the-art articles addressing all aspects of sex-determining genes and sex chromosome evolution in aquaculture animals.

Guest Editor

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About the Journal

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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