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Fish Germ Cells and Gonad Development

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Message from the Guest Editors

Dear Colleagues,

Germ cells produce gametes that transmit genetic information to the next generation. They originate from primordial germ cells, which are set aside from somatic cells in the early stage of embryo development and migrate to the gonads where they differentiate into sperm in males and oocyte in females. Dozens of genes are required for germ cells development, and the mutation of any important genes such as *dnd* and *piwi* will lead to infertility. Fish are the most diverse group of all vertebrates, with more than 32,000 species recorded—half the number of vertebrates on earth. Fish provide us with a large amount of protein, thus understanding their germ cell development and reproduction is of great significance to aquaculture. With the development of biotechnology, fish reproductive biology and its application have developed rapidly. This Special Issue will collect selected contributions on progress related to the germ cells and gonad development of fish.

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Guest Editors



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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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