



fishes



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Reproductive Biology and Breeding of Fish

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Message from the Guest Editors

Reproductive biology and breeding are very important to maintain sustainable development for the fish aquaculture industry. On the other hand, some bottlenecks remain to be conquered in fish culture, such as accurate reproductive cycle control and scaled seedlings production of some fish species, such as the Japanese eel, tuna, seriola, salmon, European seabass and neotropical fishes, among others. Accordingly, the first step to improve and solve aquaculture bottlenecks is understanding the basic aspects of fish reproductive physiology, including the behavioral, physiological, cellular and molecular mechanisms underlying reproduction. The management of sexual maturation and natural spawning of captive-reared fish broodstocks plays an essential role in obtaining stable and healthy fertilized eggs. However, some issues exist during the development and growth of embryos, larvae and juveniles, which restrict the seedling production of fish. These fundamental and technological problems need to be addressed and clarified, which would be helpful for the construction of stable reproductive cycle control and seedlings production technology for fish.



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Message from the Editor-in-Chief

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