Special Issue

Physiological Ecology of Aquatic Animals under Extreme Environments

Message from the Guest Editors

Animal physiological ecology studies how the interaction of animals with their environments shapes physiological characteristics that are relevant to ecology, as well as how the animal's physiological functions adapt to their surroundings in light of evolution. The adaptive mechanism of animals living in extreme environments especially attracts attention from scientists. On one hand, exploring the physiological function maintenance mechanism of animals naturally distributed in extreme environments (e.g., polar, plateau, and intertidal zones) can help us to understand the adaptive limits of life. On the other hand, exploring the physiological and ecological responses of animals to stressful environmental changes caused by anthropogenic activities (e.g., climate change, pollution, and farming) is helpful to evaluate and predict the ecological risks of environmental events. Although 70% of the Earth's surface is covered by water, there are far fewer physiological ecology studies on aquatic animals compared with those on terrestrial animals. In this Special Issue, research articles and reviews are welcome. We look forward to your valuable contribution!

Guest Editors

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