



Functional Morphology and Adaptations of Aquatic Life

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submissions:
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Message from the Guest Editor

Dear Colleagues,

Aquatic vertebrates can be divided into two categories: “primarily aquatic”—extant fish of all taxa, including lungfish and coelacanth, and their aquatic ancestors—and “secondarily aquatic”—tetrapod lineages that have derived an aquatic life from their terrestrial ancestors, which include non-avian reptiles, birds and mammals. The demands of aquatic life can be very different compared to those of an air-breathing terrestrial existence, and in many cases, a different range of functional adaptations has evolved in secondarily aquatic taxa.

We invite submissions on functional adaptations to aquatic life in both primarily and secondarily aquatic lineages, extant or extinct, in both original research and review papers, with the aim of further defining the needs of aquatic life. Topics could include sensory adaptations—electroreception, vision, and hearing, including echolocation—ventilation and gas exchange, locomotion, the hydrodynamics of swimming and diving, osmoregulation, and the physiology of life in a deep environment. Research into the comparative morphology of convergent or parallel evolution is encouraged.





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Message from the Editor-in-Chief

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