



Diversity

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Special Issue Reprint

Aquatic Organisms Research with DNA Barcodes

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This issue focuses on DNA barcoding of aquatic life from temperate regions to the tropics. It includes studies discovering an unknown diversity, describing new species with integrative taxonomy, and studies on phylogenies.

It also contains applications to species of interest for fisheries, aquaculture, bioindicators, invasive exotics, and new insights for controlling the latter. It comprises proposals for new-generation sequencing and automation methods of DNA barcoding for biomonitoring and conservation, and has some implications for fisheries derived from these methods' use. Other promising applications include identifying all life stages, from larvae to adults, from fish to invertebrates such as the chironomids, and applying the baselines created in the analyses of gut contents for some predators.

Finally, a global review of the advances of studies on DNA barcoding of aquatic organisms is included, highlighting the need to promote and continue the efforts of these studies.

