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Alien Species in Aquatic Toxicology

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Message from the Guest Editor

Dear Colleagues,

The expansion of non-indigenous species in aquatic environments is a major societal preoccupation. Some of these introduced species, with a rapid demographic increase, have been considered alien species. Many publications have highlighted that these alien species appeared more tolerant to the fluctuations of physico-chemical parameters than the native species, but they could also appear more tolerant to pollutants. Many investigations have been carried out using already-existing freshwater or marine alien species as bioindicators in aquatic ecotoxicology. Nevertheless, we can question whether they can really be considered sentinel species if they possess specific mechanisms or a high intensity of molecular and physiological responses against pollutants. This Special Issue will provide responses to this research question and propose to group several articles and reviews exposing comparative analyses in aquatic ecotoxicology confronting native and alien species to explore their mechanisms of response to pollutants and establish if these alien species may be considered model species or sentinels in the context of ecotoxicology.



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Special Issue



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Message from the Editor-in-Chief

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