

Special Issue

Alien Species in Aquatic Toxicology

Message from the Guest Editor

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.

Guest Editor

Dr. Vincent Leignel

Laboratory BIOSSE, Le Mans University, Le Mans, France

Deadline for manuscript submissions

closed (30 November 2024)



Toxics

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/199897

Toxics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
toxics@mdpi.com

mdpi.com/journal/

[toxics](https://mdpi.com/journal/toxics)





Toxics

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed



[mdpi.com/journal/
toxics](https://mdpi.com/journal/toxics)



About the Journal

Message from the Editor-in-Chief

Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

Editor-in-Chief

Dr. Demetrio Raldúa
Department Environmental Chemistry, IDAEA-CSIC, Jordi Girona 18,
08034 Barcelona, Spain

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Toxicology) / CiteScore - Q1 (Chemical Health and Safety)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.1 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).