DESCRIPTION

Aquatic Toxicology publishes original scientific papers dealing with the mechanisms of toxicity and the responses to toxic agents in aquatic environments at the community, species, tissue, cellular, subcellular and molecular levels, including aspects of uptake, metabolism and excretion of toxicants.

The aim of the journal is to increase our understanding of the impact of toxicants on aquatic organisms and ecosystems. Studies with aquatic model systems that provide fundamental mechanistic insight to toxic effects on organisms in general are also welcome. Both laboratory and field studies will be considered. The mechanistic focus includes genetic disturbances and adaptations to environmental perturbations, including the evolution of toxicant responses; biochemical, physiological and behavioural responses of organisms to toxicants; interactions of genetic and functional responses, and interactions between natural and toxicant-induced environmental changes. The bioaccumulation of contaminants is considered when studies address mechanisms influencing accumulation. Ecological investigations that address reasons, possibly also considering their genetic and physiological aspects, for toxicant-induced alterations of aquatic communities or populations are suitable.

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AUDIENCE

Environmental Toxicologists, Marine Biologists, Ecotoxicologists, Biochemical Toxicologists, Conservationists.

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Molecular ecotoxicology, comparative genomics, rotifers, copepods, killifish, oxidative stress, mechanistic toxicity, lipid metabolism, microplastics, emerging chemicals, ocean acidification

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**Francesco Regoli**, Università Politecnica delle Marche, Ancona, Italy
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**Daniel Schlenk**, University of California, Riverside, Riverside, California, USA
Biochemical mechanisms that influence susceptibility to environmental stress, anthropogenic and natural chemicals

**Helmut Segner**, Universität Bern, Bern, Switzerland
Aquatic ecotoxicology, cytoprotective systems, hormone-active chemicals

**Inna Sokolova**, Universität Rostock, Rostock, Germany
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**Jennifer Stauber**, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Lucas Heights, New South Wales, Australia
Ecotoxicology of metals; Metal bioavailability and toxicity to marine and freshwater biota; Contaminants; Chemicals risk assessment; Environmental regulation

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Metal Pollution, Metal Ecotoxicology, Metal Biogeochemistry, Metal Bioavailability, Metal bioaccumulation, Metal toxicity, Environmental processes of metals, Biomonitoring, Biomarkers, Bioassays

**Kristie Willett**, University of Mississippi, University, Mississippi, USA

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Fish; In vitro toxicology; Developmental and reproductive toxicology; Neurotoxicology; Oxidative stress; Molecular response and adverse outcome; Endocrine disruptors; Emerging pollutants; Nanoparticles and toxicity
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