



water



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## Ecotoxicity and Carcinogenesis of Water Pollutants

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### Message from the Guest Editors

Dear Colleagues,

Worldwide, water pollution is jeopardizing the environment and human health, stalling economic growth and reducing food production, and exacerbating poverty. Pollutants in water bodies such as persistent organic pollutants (POPs), endocrine-disruptive chemicals (EDCs), heavy metals, and nanomaterials pose an immense risk to the ecosystem.

Toxicology studies of water pollutants have endeavored to reveal their potential toxic effects on aquatic life. The use of some of the chemicals and reagents such as polycyclic aromatic hydrocarbons (PAHs) and polychlorinated biphenyls (PCBs) has been banned or restricted in a number of countries due to their widespread detection in aquatic areas and proven toxicity towards humans. Additionally, the potential genotoxicity of some water pollutants raises concerns about their carcinogenesis. Indeed, exposure to PAHs and certain other organic reagents has been confirmed to be related to breast cancers. As such, this Special Issue will mainly focus on providing the scientific community comprehensive and detailed knowledge of the toxicity, distribution, trophic bioaccumulation, and carcinogenesis of waterborne pollutants.



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Special Issue



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## Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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