Bio-effects, molecular mechanisms and exposure paths of emerging contaminants on species in marine aquaculture

Guest Editor

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Message from the Guest Editor

Dear Colleagues,

Contaminants of Emerging Concern (CECs) include, but not limited to—rare earth elements, micro- and nano-plastics, nanomaterials, perfluoroalkyl and polyfluoroalkyl substances (PFASs), pharmaceuticals and personal care products (PPCPs), illicit drugs, flame retardants, artificial sweeteners, and ionic liquids. Most of them are released into wastewater and are only partially removed by wastewater treatment plants. Thus, they can be discharged into surface water bodies and then marine environment, generating potential adverse effects to the biota.

The decrease of global fisheries since 1980, combined with the increasing demand of seafood products, has created a strong impetus to develop aquaculture. This has resulted in that, for the first time in human history, more than half of seafood consumed today is farmed. The species in marine aquaculture are suffering from the toxic effects of emerging contaminants exposed in sea water. The health of marine aquaculture species, such as fish, mollusk, crustacean, algae, etc., affects sea food...
product quality and human health, ultimately.

The main goals of this Special Issue is to present readers with the adverse effects of these contaminants on marine aquaculture species, the mechanisms of toxic effects at molecular level, the exposure paths and control of contaminants, in the system of marine aquaculture.

Dr. Jiji Li and Dr. Yingying Ye

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