

## **Marine and freshwater ecotoxicology**

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May 9, 11:05 - 16:00, Hall 400

Freshwater, coastal and marine areas are crucial for food production, recreation and transport, but also function as recipients of industrial and public waste. However there is still surprisingly limited knowledge about how toxic substances affect aquatic organisms and processes. Our understanding of possible impacts is limited to a few model species and a limited number of endpoints, nearly always studied in isolation from possibly modulating factors. This session wishes to contribute to increasing the knowledge base of how toxic substances affect aquatic organisms and to improve on the risk assessment of such substances in marine and freshwater ecosystems. The session will particularly welcome presentations on immunotoxicity and developmental toxicity, but will include studies on other mechanisms of toxicity, such as neurotoxicity, genotoxicity and reproductive toxicity. Toxic substances are never present in isolation and the session will address how other environmental factors such as temperature, salinity and organic matter content modulate responses to toxicants. This session aims to address the above issues with platform and poster contributions from academia, industry and institutions that manage the marine and freshwater environment. Presentations on the following topics will be particularly welcome: - Comparative studies of effects of toxic substances in different aquatic organisms - Studies of immunotoxicity, neurotoxicity, genotoxicity, reproductive toxicity and developmental toxicity of aquatic organisms - Studies on how environmental factors may modulate effects of toxic substances - Interactions between contaminants and other environmental pressures in marine and freshwater ecosystems - Comparison of sublethal responses to contaminants in freshwater, estuarine and marine organisms.