Special Issue

Physiological and Biochemical Responses of Aquatic Organisms to Emerging Contaminants: A Themed Collection in Honor of Prof. Caterina Faggio

Message from the Guest Editor

Professor Caterina Faggio, Full Professor at the University of Messina, has devoted much of her scientific career to the study of physiological processes in aquatic organisms and their responses to environmental stress. Her research addresses mechanisms such as osmoregulation, ion transport, and cell volume regulation, alongside the cellular and biochemical effects of environmental contaminants in invertebrates and fish. Dedicated to her scientific contributions, this Special Issue focuses on the effects of emerging contaminants on aquatic organisms, with an emphasis on the physiological mechanisms involved in toxic responses. Topics of interest include oxidative stress, antioxidant defenses, cellular homeostasis, immune responses, metabolic alterations, and molecular biomarkers. Studies examining the effects of individual contaminants or mixtures, as well as research investigating approaches to reduce contaminant-induced toxicity, also fall within the scope of this Special Issue. Original research articles and review papers addressing these aspects are welcome.

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