

## Special Issue

# Metabolic Physiology Under Environmental Coercion

### Message from the Guest Editors

Environmental stresses can disrupt the balance and coordination between aquatic animals and their environment, leading to disruptions in their normal physiological functions.

This Special Issue publishes original research articles and review articles on the aspects of metabolites and metabolisms relevant to the fields of metabolomics, metabolic biochemistry, systems biology, biotechnology, and medicine. The focus is on the reaction mechanisms of organisms to the adverse external environment and metabolomics of biological stress-resistant growth under environmental coercion, including, but not limited to, physiological metabolic mechanisms, morphological structure changes, transcriptome analysis, genomic analysis, and intestinal microbiome research.

Changes in the environment may strongly affect aquatic organisms at the physiological, behavioral, and molecular levels, leading to the mass mortality of aquatic organisms and consequent degradation of genetic resources. Therefore, there is a need to better understand the mechanisms of response and adaptation in aquatic animals to the metabolisms of multiple environmental stressors.

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### Guest Editors

Prof. Dr. Yanchun Sun

Prof. Dr. Zhijun Tan

Dr. Shuqun Xue

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### Deadline for manuscript submissions

closed (20 May 2025)



## Metabolites

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CiteScore 6.9  
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## About the Journal

### Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

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### Editor-in-Chief

Dr. Amedeo Lonardo

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.4 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2025).