## Special Issue

## Molecular Metabolisms and Regulations of Algae

## Message from the Guest Editor

Eukaryotic algae are remarkably diverse in terms of habitat, morphology, physiology, and biochemistry, and they play a critical role in global ecology. Algae are useful models for studying metabolic processes in photosynthetic organisms and potential renewable platforms for the production of beneficial chemicals. Algae adapt to various environmental conditions by changing many aspects, from gene expression to cell physiology and morphology, through the regulation of primary and secondary metabolism. Characterizing algal metabolism and its regulation is the key to understanding their role in the environment and unlocking their potential for biotechnology applications. This Special Issue provides an open platform for the discussion of recent developments in this field, focusing on novel aspects of molecular metabolism in algae, from genes regulation and signal pathways to protein modification and enzyme activity control. Original papers, review articles, and perspectives from experts in the field are welcome.

#### **Guest Editor**

Prof. Dr. Elena Ermilova

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## Deadline for manuscript submissions

closed (31 August 2024)



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## Message from the Editor-in-Chief

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### **Editor-in-Chief**

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