

Special Issue

Phytoplankton Community Structure and Succession

Message from the Guest Editors

Phytoplanktons represent a community of aquatic photosynthetic microorganisms characterised by great diversity. As one of the major biological quality elements, it is used as a monitoring tool in the assessment of the ecological status of surface waters required by relevant directives. Supported by morphological and functional phytoplankton analyses, the molecular approach in phytoplankton ecology is increasingly used to explain and predict species distribution along environmental gradients. The study of phytoplankton diversity, community structure and succession patterns is critical to understand the increasing eutrophication, invasive species problems, harmful algal blooms and the overall effects of climate change on inland waters, which can be used to assess water quality and plan restoration efforts. This proposed Special Issue of *Plants* addresses the topics of phytoplankton dynamics at seasonal and long-term scales, as well as physical, biological or autogenic drivers that destroy the structure or alter the environment in favour of tolerant taxa.

Guest Editors

Dr. Dubravka Špoljarić Maronić

Dr. Filip Stevic

Dr. Tanja Žuna Pfeiffer

Deadline for manuscript submissions

31 October 2025



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/188618

Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB
R3T 2N2, Canada

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