### Special Issue

# New Challenges in the Biodiversity and Ecosystem of Phytoplankton

Message from the Guest Editor

Phytoplankton is a key component of the structure and function of marine ecosystems. It represents one of the paradigm systems for studies on the maintenance of species diversity. However, a complete understanding of the relative importance of different environmental drivers regulating the phytoplankton biodiversity is still lacking, and about how future global warming might alter the associated ecosystem functioning.

In this Special Issue, we would like to understand how climatic variations interact with or override anthropogenic changes, affecting phytoplankton by eliciting physiological and adaptive responses, and indirectly by inducing hydrological and biological changes that influence both bottom-up and top-down processes. Besides, considering the capabilities of phytoplankton to synthetize bioactive metabolites with properties of interest for biotechnological and biomedical applications, we would like to provide a snapshot of the exciting research currently happening and a comprehensive overview on current studies and also the available solutions to produce and exploit novel natural marine phytoplankton products.

#### Guest Editor

Prof. Dr. Olga Mangoni

Department of Biology, University of Naples Federico II, 80126 Naples, Italy

#### Deadline for manuscript submissions

closed (10 July 2021)



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

mdpi.com/journal/applsci





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#### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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