# **Special Issue**

# Physiology, Evolution and Biotechnology of Microalgae in Extreme Environments

# Message from the Guest Editors

Extremophilic microalgae can colonise and thrive in inhospitable environments (extremely low or high pH, temperature, salinity, pressure and radiation). Over the past few decades, extremophilic microalgae have been thoroughly studied, providing insights into the origin and evolution of life on Earth and the mechanisms of tolerance and adaptation to harsh environmental conditions. The adaptation to extreme life could be due to structural features and hidden genome information that might be transcribed in specialised molecules, depending on environmental conditions. Lately. powerful sequencing and bioinformatics methods have also been used to predict extremophilic proteins with great potential in biotechnological and pharmaceutical applications. This Special Issue on extremophilic microalgae aims to collect a wide range of research on physiology, evolution and biotechnological application of extremophilic microalgae to increase and deepen knowledge of life at the extremes.

### **Guest Editors**

# Dr. Claudia Ciniglia

Department of Environmental, Biological and Pharmaceutical Sciences and Technologies, University of Campania Luigi Vanvitelli, Via Vivaldi 43, 81100 Caserta, Italy

### Dr. Manuela Iovinella

Department of Environmental, Biological and Pharmaceutical Sciences and Technologies, University of Campania Luigi Vanvitelli, Via Vivaldi 43, 81100 Caserta, Italy

# Deadline for manuscript submissions

closed (30 January 2024)



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

mdpi.com/journal/plants





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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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