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Physiology, Evolution and Biotechnology of Microalgae in Extreme Environments

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

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Message from the Guest Editors

Dear Colleagues,

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.

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Editor-in-Chief

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

Message from the Editor-in-Chief

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Contact Us

Plants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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