

Special Issue

Microbial Community Structure and Metabolic Networks in Polar Areas

Message from the Guest Editor

The study of the metabolic potential of polar microorganisms has considerably developed due to molecular techniques such as genomics, transcriptomics, and proteomics. Metabolic networks that have been identified in microorganisms from polar regions are of interest for various reasons: (i) these microorganisms are one of the main pillars in polar ecosystems since they are the base of food webs; (ii) the study of their metabolic networks allows the establishment of their relationship with biogeochemical cycles in polar regions; (iii) they are of interest in industry since they contain molecular machines that have been used in disciplines such as biotechnology, clinical research, or food technology; and (iv) the microorganisms of polar regions are able to maintain an active metabolism at below zero temperatures, making them an object of study in many research fields including astrobiology. This Special Issue focuses on all these aspects in a collection of both reviews and original articles concerning ecology, community structure, and metabolic networks of microorganisms in polar areas and their implication in other areas such as biotechnology and astrobiology.

Guest Editor

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Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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