Special Issue

Anaerobic Microorganisms on Mars 2.0

Message from the Guest Editor

This Special Issue is the continuation of our previous Special Issue "Anaerobic Microorganisms in Mars". Space exploration missions to Mars, such as the Mars Science Laboratory (Curiosity rover), have confirmed the past presence of water as well as habitable conditions on Mars. At the same time, methane plumes on the red planet identified by several authors lead to the question about the potential for life to exist on Mars. The presence of methane is an open and unsolved question. Methane gas on the Martian surface has a shorter lifetime; therefore, its presence must be sustained by the regular production of methane by some source. Could it be of biological origin? At this moment, we are ready to debate about the real-life potential to exist on Mars. From a metabolic point of view, anaerobic microorganisms open up the possibility of an ecological niche on Mars' subsurface. This Special Issue on anaerobic microorganisms on Mars opens up the debate about the real possibilities of a metabolic niche on Mars. Articles containing experiments run on simulation chambers and Earth analogues, as well as discussions of Martian habitability, are welcome.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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