



Chemolithotrophic Microorganisms

Guest Editor:

Dr. Jianfei Luo

School of Biology and Biological
Engineering, South China
University of Technology,
Guangzhou 510006, China

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Message from the Guest Editor

Chemoautotrophic microorganisms are widely distributed in natural and manmade ecosystems. They not only drive the element biogeochemical cycles on Earth, but also play important roles in bioremediation. Though some meta-omic technologies are now popularly used to obtain their genomes or predict their functions at the genomic and transcriptomic scales, studies at the cellular level and in pure culture are also essential to reveal the pathways involved in the biogeochemical cycles and screen some excellent strains for the bioremediation of pollutants in the environment.

The aim of this Special Issue is to collect some of the latest works in the field of chemoautotrophic microorganisms. It welcomes studies on (1) the enrichment, isolation, and characterization of chemoautotrophs; (2) (meta)genomic-, (meta)transcriptomic-, and/or (meta)proteomic-scale-based functional analyses of chemoautotrophs; (3) microbial interactions between chemoautotrophs and other microbes; and (4) the strategies or methods that are optimized to obtain chemoautotrophs from the environment.





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Dr. Nico Jehmlich

Department of Molecular
Systems Biology, UFZ-Helmholtz
Centre for Environmental
Research, 04318 Leipzig,
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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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Microorganisms Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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