



Petroleum Microbiology

Guest Editors:

Dr. Tamara N. Nazina

Winogradsky Institute of
Microbiology, Research Center of
Biotechnology, Russian Academy
of Sciences, Prospect 60-letiya
Oktyabrya, 7/2, 117312 Moscow,
Russia

Prof. Dr. Bo-Zhong Mu

Institute of Applied Chemistry,
East China University of Science
and Technology, Shanghai
200237, China

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Message from the Guest Editors

In 2026, it will be 100 years since the first articles on petroleum microbiology. Petroleum reservoirs are now recognized as integrated ecosystems, where microbial populations interact with the environment and with each other, while the energy flows are based on biotransformation of oil and exogenous trophic substrates in a trophic change and may be regulated.

This Special Issue will publish papers that address a wide range of problems of petroleum microbiology: (1) phylogenetic and functional microbial diversity in petroleum and gas reservoirs and underground gas storage; (2) the new taxa of prokaryotes from petroleum reservoirs; (3) CO₂ sequestration in petroleum reservoirs and its influence on microbial communities; (4) aerobic and anaerobic biotransformation of crude oil and bitumen; (5) impact of metagenomics approaches in ecology of microorganisms in petroleum reservoirs; and (6) biotechnologies for the oil industry, including microbial enhanced energy recovery, microbiologically influenced corrosion and souring, etc.





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Editor-in-Chief

Dr. Nico Jehmlich

Department of Molecular
Systems Biology, UFZ-Helmholtz
Centre for Environmental
Research, 04318 Leipzig,
Germany

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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