

Special Issue

Petroleum Microbiology 2.0

Message from the Guest Editors

This Special Issue is a continuation of our previous Special Issue "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 chain 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.

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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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
microorganisms@mdpi.com

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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.

Editor-in-Chief

Dr. Nico Jehmlich

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

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).