Special Issue

Microbial Biodegradation and Biotransformation

Message from the Guest Editors

A sharp decline in the quality of the environment makes it extremely urgent to search for ways to prevent and neutralize anthropogenic pollution of natural ecosystems. Freeing the biosphere from eco-pollutants will, as an unsolved problem, be in the spotlight for a long time. Xenobiotics are a “time bomb”. In this regard, the efforts of most researchers have been recently concentrated mainly in the field of applied microbiology, which supports the search for rational ways of biodegradation and for effective biodegraders of new xenobiotic compounds continuously entering the environment. Their harmful effects are enhanced due to the simultaneous presence of many other active xenobiotics in the system with varying degrees of degradability and toxicity. All this makes it necessary to expand and intensify studies of the characteristics of microorganisms in contaminated environments, so-called extremotolerant microorganisms or stress-tolerants, which play the role of a primary response system to unfavorable or potentially dangerous environmental changes and initiate their adaptive responses at the earliest stages. We look forward to your input.

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Deadline for manuscript submissions

closed (31 July 2022)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/104512

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"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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