Special Issue

The Microbiome in Fermented Tea

Message from the Guest Editor

The microbes involved in pile fermentation are crucial in forming the sensory quality and biological functions of dark tea. During pile fermentation, various indigenous microbes propagate vigorously under high-humidity and high-temperature environments and induce multiple metabolic transformations with microbial action. Consequently, the chemical profile of raw tea leaves changes dramatically, endowing dark tea with unique sensory qualities and multiple health-promoting benefits. To date, our understanding of the microbial community has advanced rapidly due to the breakthroughs and broad application of microbiomes. Notably, a growing number of core functional microbes have been isolated from dark tea and applied in dark tea fermentation. The metabolic functions and quality contribution of tea-derived microbes have been revealed, and their mycotoxin risk in dark tea manufacturing has been investigated, which provides a theoretical basis for the improvement in quality and the safe manufacture of dark tea.

Guest Editor

Dr. Lizeng Cheng

Field of Dark Tea Fermentation & Quality Improvement, Shanghai Jiao Tong University, Shanghai, China

Deadline for manuscript submissions

31 October 2025

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/207012

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

mdpi.com/journal/microorganisms

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/journal/microorganisms

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

Rapid Publication:

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).

MDPI