



## Current Trends in the Applications of Probiotics and Other Beneficial Microbes

Guest Editor:

**Dr. Sabina Fijan**

Faculty of Health Sciences,  
University of Maribor, Žitna Ulica  
15, 2000 Maribor, Slovenia

Deadline for manuscript  
submissions:

**closed (31 July 2025)**

### Message from the Guest Editor

Probiotics and other beneficial microbes can have many beneficial effects on their hosts via modulation of the gut microbiota. They can also influence other parts of the body via various axes in humans and animals, such as the gut–microbiota–brain axis, gut–microbiota–skin axis, gut–vagina axis, etc. Other beneficial microbes include microbes, which are responsible for the fermentation of foods such as yoghurt, kefir, kombucha, kimchi, and many others. The beneficial effect of these foods is enhanced due to the microbial production of nutrients, antimicrobial and antioxidant substances, as well as bioactive peptides. Last of all, microbes play a dominant role in regulating the biogeochemical cycles on our planet. The potential topics of this Special Issue will focus on the many applications of beneficial microbes including, but not limited to: beneficial microbes and host–microbiome modulation; beneficial microbes and fermented foods; novel beneficial microbes; and beneficial microbes and ecology.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Ian Connerton

Division of Microbiology, Brewing and Biotechnology, University of Nottingham, Loughborough LE12 5RD, UK

## Message from the Editor-in-Chief

*Applied Microbiology* (ISSN 2673-8007) is a peer-reviewed open access journal that provides an advanced forum for the international community to report and discuss established and emerging applications for microorganisms and their associated technologies. Research articles, reviews, and other publications are released online immediately after acceptance to provide timely unlimited free access to the scientific community and the general public. We would be pleased to welcome you as one of our authors.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [EBSCO](#), [Embase](#), and [other databases](#).

**Journal Rank:** CiteScore - Q2 (Biochemistry, Genetics and Molecular Biology (miscellaneous))

## Contact Us

---

*Applied Microbiology* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/applmicrobiol](http://mdpi.com/journal/applmicrobiol)  
[applmicrobiol@mdpi.com](mailto:applmicrobiol@mdpi.com)  
[X@MdpiApplied](#)