

## Special Issue

# Gut Microbiota in Health and Diseases: The Role of Pro-/Pre-/Syn-/Post-Biotics in the Gut–Liver–Brain Axis

### Message from the Guest Editors

This Special Issue seeks to enhance our understanding of gut–microbiota–brain interaction, essential for creating effective, holistic strategies for prevention and treatment. Investigating how changes in gut microbiota can influence mental and metabolic health outcomes may lead to innovative therapeutic approaches, such as personalized probiotics or dietary adjustments aimed at fostering these issues. We invite manuscripts that present original research, reviews, and perspectives on all aspects of gut microbiota linked with mental and metabolic health, as well as regarding biotics such as pro-/pre-/syn-/post-biotics in gut–liver–brain axis disorders. Topics of interest include, but are not limited to, the following:

- The impact of gut-derived metabolites on liver function and overall metabolism.
- Probiotic modulation of the gut microbiome as a strategy for mitigating and preventing mental health disorders, as supported by clinical studies.
- The gut–liver–brain axis focuses on how changes in microbiota can alter specific pathways related to gut metabolite production and mental illness.

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### Guest Editors

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### Deadline for manuscript submissions

closed (15 June 2026)



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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.

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### Editor-in-Chief

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