## Special Issue

## Psychobiotics as Next-Generation Probiotics: A Holistic Approach to Mental Health and Gut-Brain Axis Modulation

## Message from the Guest Editor

The gut-brain axis is an intricate bidirectional communication network linking the central nervous system with the gut microbiota. Emerging evidence highlights the role of psychobiotics—probiotics with mental health benefits—as potential modulators of this axis, influencing cognitive function, emotional wellbeing, and neurological disorders. By modulating neurotransmitter production, immune responses, and metabolic pathways, psychobiotics present a promising next-generation approach to mental health interventions.

This Special Issue aims to highlight the latest advances in psychobiotics, explore their mechanisms of action, and examine their therapeutic potential in conditions such as anxiety, depression, neurodegenerative diseases, and stress-related disorders. Topics of interest include microbiome-based interventions for neurological and psychiatric disorders, metabolic and immune pathways linking gut bacteria to mental health, and innovative approaches to psychobiotic formulation and their delivery to the human diet.

#### **Guest Editor**

Prof. Dr. Edyta Juszczuk-Kubiak

Department of Biotechnology, Institute of Agricultural and Food Biotechnology-State Research Institute, Warsaw, Poland

## Deadline for manuscript submissions

30 September 2025



# International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/234518

International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

mdpi.com/journal/ ijms





# International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





## Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

### **Editor-in-Chief**

#### Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

### **Author Benefits**

## **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

## **High Visibility:**

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

#### Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

