

Special Issue

Mechanistic Insights into Next-Generation Psychobiotics

Message from the Guest Editor

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: (1) Strain-specific mechanisms of action of novel probiotic candidates on neurotransmitter systems (e.g., GABA, serotonin, dopamine pathways); (2) Role of bacterial metabolites (postbiotics: SCFAs, neurotransmitters, neuroactive peptides) in modulating neuroinflammation, neurogenesis, or blood–brain barrier function; (3) Engineered microbes (synbiotics, genetically modified probiotics) for targeted delivery of neurotherapeutics; (4) Gut microbiome-mediated modulation of the HPA axis and stress resilience; (5) Interactions between psychobiotics, the host immune system, and central nervous system function; (6) Preclinical and clinical studies employing omics technologies (metagenomics, metabolomics) to decipher mechanistic pathways. Novel delivery systems and formulations to enhance the bioavailability and efficacy of psychobiotic agents. We look forward to receiving your contributions.

Guest Editor

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Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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.

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