

Special Issue

Latest Advances in Gut–Brain Axis Research

Message from the Guest Editor

This Special Issue, titled “Latest Advances in Gut–Brain Axis Research”, will focus on the molecular mechanisms underlying bidirectional communication between the gastrointestinal tract and the nervous system. We invite original research and reviews that decipher the specific signaling molecules, pathways, and cellular interfaces involved. Of particular interest are studies exploring microbial metabolites (e.g., SCFAs, tryptophan derivatives) and their receptors, neuroimmune signaling (cytokines, immunoglobulins), the role of gut barrier and blood–brain barrier integrity (e.g., zonulin, claudins), and epigenetic regulation by gut microbiota. This Special Issue will compile cutting-edge molecular insights that explain how the gut microbiome influences brain function, behavior, and neurological disorders, moving beyond correlation to establish causative mechanisms.

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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