Special Issue

Molecular and Cellular Advances in Gut-Brain Axis

Message from the Guest Editors

The gut–brain axis is bidirectional and influences a plethora of (patho)physiologies including, but not limited to, obesity, inflammatory bowel disease, functional gastrointestinal diseases, mood disorders, neurodegenerative diseases, cardiovascular health, cancers, and reproductive health. Biological sex, diet, and early-life stressors are some of the most important variables that influence normal physiology and disease outcomes but remains vastly understudied. Advances in "omics" have been crucial in elucidating the mechanisms behind the actions of the gut microbiome. This Special Issue seeks original research articles addressing omics, physiological, behavioral, molecular, and cellular aspects of the gut–brain axis in basic and translational research. Review articles will also be considered.

Guest Editors

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About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).