

## Special Issue

# Gut–Brain Axis in Neurodevelopment: Microbial Metabolites and Neurological Function

### Message from the Guest Editors

The gut–brain axis is an emerging interdisciplinary field that connects microbiology, neuroscience, immunology, and developmental biology. This Joint Special Issue, a collaboration between *Pathogens* and *NeuroSci*, seeks to highlight cutting-edge research on the molecular and cellular mechanisms through which gut microbes and their bioactive compounds influence brain development and function. In this Special Issue, original research articles and comprehensive reviews are welcome. Research areas may include (but are not limited to) the following:

- Microbial-derived metabolites with neuroactive or neuroimmunomodulatory functions;
- Interactions between gut microbiota and the central/peripheral nervous and immune systems;
- Host genetic or environmental factors shaping the gut–brain axis;
- The impact of antibiotics, diet, or probiotics on neurodevelopment via microbiome modulation;
- Animal and human studies exploring microbiota–neurodevelopment links;
- Neuroinflammation and microbial pathogenesis.

You may choose our [Joint Special Issue](#) in *NeuroSci*. We look forward to receiving your contributions.

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### Guest Editors

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### Deadline for manuscript submissions

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## NeuroSci

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## About the Journal

### Message from the Editor-in-Chief

*NeuroSci* (ISSN 2673-4087) is an international, peer-reviewed open access journal focusing on neurology and neuroscience. The journal publishes comprehensive reviews, original research papers and high-quality communications. Our aim is to encourage scientists to publish their novel findings and concepts in fundamental and clinical neuroscience as much detail as possible. We invite you to read recent articles published in *NeuroSci* and consider publishing your next paper with us.

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### Editor-in-Chief

Dr. François Ichas  
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