Special Issue

Gut-Brain Axis in **Neurodevelopment: Microbial** Metabolites and Neurological **Function**

Message from the Guest Editors

The aut-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 microbiotaneurodevelopment links;
- Neuroinflammation and microbial pathogenesis.

You may choose our Joint Special Issue in NeuroSci. We look forward to receiving your contributions.

Guest Editors

Dr. Xuesong Zhang

- 1. Center for Advanced Biotechnology and Medicine, Rutgers University-New Brunswick, Piscataway, NJ 08854, USA
- 2. Division of Medicine, University College London, London, London, UK

Dr. Ningning Li

Tomas Lindahl Nobel Laureate Laboratory, The Seventh Affiliated Hospital, Sun Yat-Sen University, Shenzhen 518107, China

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NeuroSci **Editorial Office** MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 neurosci@mdpi.com

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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.

Editor-in-Chief

Dr. François Ichas

Institut des Maladies Neurodégénératives, CNRS et Université de Bordeaux, UMR 5293, Bordeaux, France

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