



## Microbiome Gut Brain Axis

Guest Editor:

**Prof. Dr. Carl Gordon Johnston**

Department of Biological  
Sciences, Youngstown State  
University, Youngstown, OH  
44555, USA

Deadline for manuscript  
submissions:

**closed (28 February 2018)**

### Message from the Guest Editor

Dear Colleagues,

The role of gut microbial ecosystem in host health and dysbiosis (e.g., gastrointestinal diseases, obesity, cardiovascular diseases, and infection) and host immune system has been widely reported in the last decade. However, the gut microbiota also influences other aspects of human physiology, such as the Microbiome–Gut–Brain axis. The function of the gut microbiome and the bidirectional communication between the gastrointestinal (GI) tract and the brain has only recently been recognized in health and disease. In fact, disruption of the gut–brain axis and its composition is now under investigation in a number of neurological diseases and other issues related to mental health, mental well-being, neurological development, depression, and anxiety. This Special Issue broadly covers interactions between gut microbes, the GI tract, endocrine system, enteric nervous system, immune system, and the central nervous system.





an Open Access Journal by MDPI

## Editor-in-Chief

### Dr. Nico Jehmlich

Department of Molecular  
Systems Biology, UFZ-Helmholtz  
Centre for Environmental  
Research, 04318 Leipzig,  
Germany

## Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

**Journal Rank:** JCR - Q2 (*Microbiology*) / CiteScore - Q2 (*Microbiology*)

## Contact Us

---

*Microorganisms* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/microorganisms  
microorganisms@mdpi.com  
X@Micro\_MDPI