

Special Issue

Mechanisms of Multidirectional Communication Regulating the Gut Microbiota-Organ Axes

Message from the Guest Editors

Host-microbiota interaction is essential in promoting local and systemic homeostasis. The gut microbiota influences homeostatic equilibrium of distal organs through a number of communication axes. These signalization pathways are modulated by the production of bioactive metabolites. Despite the importance of these communication pathways in keeping organ homeostasis, our knowledge of the underlying regulatory mechanisms and the molecular players participating in host-microbiota interaction is still limited. With this Special Issue in *BioTech*, we aim to provide an update and future directions in the mechanisms governing host-microbiota crosstalk. Contributions can be either original articles or reviews covering current knowledge and potential novel mechanisms that can participate in the communication between the host and their microbes in health and disease.

Guest Editors

Dr. Jose Caparros-Martin

Faculty of Health Sciences & Curtin Health Innovation Research Institute (CHIRI), Curtin University, Bentley, WA 6102, Australia

Dr. Patricia Agudelo-Romero

Telethon Kids Institute, Perth, Australia

Deadline for manuscript submissions

closed (10 December 2021)



BioTech

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 4.8
Indexed in PubMed



mdpi.com/si/84151

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

[mdpi.com/journal/
biotech](https://mdpi.com/journal/biotech)





BioTech

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 4.8
Indexed in PubMed



[mdpi.com/journal/
biotech](https://mdpi.com/journal/biotech)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Massimo Negrini
Department of Morphology, Surgery and Experimental Medicine,
University of Ferrara, Ferrara, Italy

Author Benefits

High Visibility:

indexed within ESCI (Web of Science), Scopus, PubMed, PMC, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Biotechnology and Applied Microbiology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.6 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).