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Mechanisms of Multidirectional Communication Regulating the Gut Microbiota-Organ Axes

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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.