Special Issue

Research on the Interaction Mechanism Between Animal Intestine and Its Microbiota

Message from the Guest Editors

The origins and establishment of gut microbiota in early life have a critical relationship with the host and play an important role in animal health and disease. The composition and diversity of the animal's gut microbiota can be affected by many factors, including dietary components, drug usage, and living environment. The metabolites produced by gut microbiota can regulate the functions of the animal immune system and influence immune and metabolism-related diseases. We are pleased to invite you to contribute to our Special Issue on "Research on the Interaction Mechanism Between Animal Intestine and Its Microbiota" in our journal. This Special Issue will collect manuscripts dedicated to the comprehension of the diversity, metabolites, and interaction mechanisms of gut microbiota in animals. Multi-omics (genomics, transcriptomics, proteomics, metabolomics, phenomics, etc.) investigate the interaction mechanism of gut microbiota and the animal intestine at the gene, protein, metabolic, and phenotypic level are welcome.

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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