

## Special Issue

# Molecular Advances on Gut Microbiota in Human Health

### Message from the Guest Editor

This Special Issue, “**Molecular Advances on Gut Microbiota in Human Health**,” aims to highlight the latest insights into the mechanisms through which the gut microbiota contributes to human physiology and pathology. We welcome original research and comprehensive reviews addressing (but not limited to) the following areas:

- Molecular mechanisms linking gut microbiota and systemic metabolism;
- Microbiota-mediated regulation of inflammation and immune function;
- Gut–brain and gut–endocrine communication pathways;
- Microbial biomarkers for early diagnosis and disease monitoring;
- Effects of diet, nutraceuticals, prebiotics, probiotics, and postbiotics on microbial composition and function;
- Multi-omics integration in microbiome research and clinical applications;
- Therapeutic modulation of the gut microbiota in chronic diseases.

We hope that the contributions in this Special Issue will stimulate new directions in microbiome-centered research and foster the development of microbiota-based interventions to improve human health and longevity.

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### Guest Editor

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## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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