Special Issue

Application of Bioinformatics in Microbiome—2nd Edition

Message from the Guest Editor

This Special Issue aims to demonstrate the latest developments in bioinformatics in the NGS era that have helped advance our understanding of the microbiome. The second version of this Special Issue also encompasses bioinformatics tools, algorithms, and computing platforms for multi-omics microbiome research. The Issue's scope includes, but is not limited to, the following topics:

- New or improved next-generation sequencing (NGS) technologies that accelerate microbiome research;
- New or improved omics and multi-omics technologies that accelerate microbiome research;
- New computing algorithms for analyzing NGS and omics data;
- Data management platforms (online or standalone desktop databases) for microbiome data;
- Pipeline development (a collection of analytic software streamlined from upstream to downstream applications);
- Bioinformatics application in the cloud platform;
- Artificial intelligence (AI) in microbiome research;
- New microbiome research discovery, both medical and non-medical, with a significant bioinformatics component;
- Reviews of the above applications.

Guest Editor

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Deadline for manuscript submissions

20 July 2025

About the Journal

Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.
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Editor-in-Chief

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