

Special Issue

Bioinformatics Research in Bacterial Genomics, Metagenomics and Metatranscriptomics

Message from the Guest Editor

We are excited to introduce this Special Issue dedicated to a comprehensive exploration of bacterial genomics, metagenomics, and metatranscriptomics. In the post-genomic era of molecular biology, improvements in high-throughput shotgun sequencing technologies have not only enhanced quality but have also reduced costs, resulting in a significant increase in the availability of metagenome and metatranscriptome sequences. As the volume of bacterial sequencing data continues to rise, the development of innovative tools and approaches has become crucial for effective analysis and moreover for the interpretation of results. The scope of topics covered in this Special Issue is broad, encompassing areas such as genome assembly and annotation, functional annotation, comparative genomics, metagenomics, metatranscriptomics, microbial diversity, bacterial communities associated with animals and plants, shotgun sequencing of complex biological samples, and more. We welcome both original research papers and reviews, and we also encourage articles that combine dry-lab and wet-lab approaches.

Guest Editor

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Deadline for manuscript submissions

closed (10 March 2025)



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