

Special Issue

Recent Advances in Bacterial Epigenomics

Message from the Guest Editor

Bacterial epigenomics is an emerging field that intersects genomics and epigenetics, focusing on mechanisms such as DNA methylation, histone-like protein modifications, and regulatory RNA molecules that modulate bacterial phenotypes in response to environmental cues.

The study of bacterial epigenomics has profound implications for understanding bacterial evolution, physiology, pathogenesis, and antibiotic resistance. Advanced techniques such as single-molecule real-time (SMRT) sequencing and Oxford Nanopore sequencing (ONT) are enhancing our ability to map epigenetic modifications and their functional consequences comprehensively.

The Special Issue “Recent Advances in Bacterial Epigenomics” will focus on the molecular players that take part in epigenetic mechanisms. We invite contributors to submit works that investigate these mechanisms by various and combined approaches, such as biochemistry, molecular biology, genetics, and omics techniques, as well as review articles that offer a comprehensive view of current knowledge and its limits.

Guest Editor

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Deadline for manuscript submissions

closed (29 November 2024)



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