Special Issue

Bioinformatics Research on Viruses

Message from the Guest Editors

The “Bioinformatics Research on Viruses” Special Issue highlights the transformative impact of computational biology on understanding viral complexity in the modern era. With viruses representing both a global health challenge and a biological enigma, this Special Issue seeks contributions that utilize bioinformatics to decode viral mechanisms, evolution, and interactions with hosts. Key areas of interest include the design of innovative algorithms for high-throughput viral genome analysis, the elucidation of viral–host co-evolutionary dynamics, and the prediction of viral behaviors under environmental and therapeutic pressures. This Special Issue also encourages submissions that explore the role of artificial intelligence and machine learning in virology, providing new avenues for surveillance, vaccine design, and antiviral drug development. By fostering an intersection of virology and computational sciences, this Special Issue aims to inspire cutting-edge discoveries and practical applications in viral research.

Guest Editors

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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