Special Issue

Antimicrobial Resistance and Multidrug-Resistant Bacteria in Infectious Patients, 2nd Edition

Message from the Guest Editors

Welcome to this Special Issue of *Microorganisms*, titled "Antimicrobial Resistance and Multidrug-Resistant Bacteria in Infectious Patients, 2nd Edition"*.* Antimicrobial resistance is considered a worldwide burden, affecting the patients of critical hospital wards, such as intensive care units (ICUs). Careful clinical surveillance, together with the monitoring of the well-known bacterial strains responsible for inducing HAI, may help clinicians to choose the appropriate antibiotic therapy. Recently, several strategies have been proposed to face this challenge, such as strong prevention or the support of computer-based analyses. This approach is very promising; in fact, AI currently plays an important role in different fields, from smart manufacturing to the internet of things, human–computer interaction, and medicine. The growing availability of computerized patient records in hospitals allows for the improvement of data storage with traditional machine-learning methods, which have been shown to outperform deep learning's performance when applied to tabular data.

Guest Editors

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Deadline for manuscript submissions

31 August 2025

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/221392

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"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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