Special Issue

Carbapenem-Resistant Enterobacterales (CRE) Surveillance, Infection and Epidemiology

Message from the Guest Editor

Carbapenem-resistant Enterobacterales (CRE) are among the most urgent threats to healthcare systems worldwide because of their rapid spread, limited treatment options, and major impact on patient safety, clinical outcomes, and hospital organization. This Special Issue aims to collect high-quality contributions addressing screening, surveillance, and infection prevention strategies for CRE and carbapenemase-producing Enterobacterales across healthcare settings. Particular interest will be given to studies on pre-admission screening, admission risk assessment, active surveillance cultures, molecular characterization of resistance mechanisms, colonization burden, and interventions designed to reduce transmission. Contributions exploring the intersection between microbiology, hospital epidemiology, infection prevention, antimicrobial stewardship, and healthcare organization are especially welcome. In this Special Issue, original research articles and reviews are welcome. Research areas may include, but are not limited to, the following: pre-admission and admission screening; carbapenemase genes and molecular epidemiology; infection prevention and control; antimicrobial stewardship.

Guest Editor

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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.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2026).

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