

## Special Issue

# Antimicrobial Resistance, Epidemiology, Clinical Impact and Molecular Characterization of Multidrug-Resistant ESKAPEE Pathogens

### Message from the Guest Editors

The acronym ESKAPEE identifies bacteria (*Enterococcus faecium*, *Staphylococcus aureus*, *Klebsiella pneumoniae*, *Acinetobacter baumannii*, *Pseudomonas aeruginosa*, *Enterobacter* spp. and *Escherichia coli*) that are able to escape the biocidal action of antimicrobials, presenting high rates of multi-resistance. Available treatment options are increasingly ineffective against these pathogens, which may lead to a future in which antibiotics are ineffective. In the food sector, ESKAPEE pathogens can pose a threat to public health. The overuse or misuse of antibiotics in animal husbandry could increase their resistance, thus promoting their spread throughout food production and consumption. This Special Issue is seeking manuscripts that advance our understanding of various aspects of ESKAPEE pathogens, specifically:

- Mechanisms of antimicrobial resistance
- Phenotypic and genotypic assessment of antibiotic resistance
- Molecular characterization of multidrug-resistant ESKAPEE pathogens
- Nosocomial outbreaks caused by ESKAPEE pathogens
- Identification of ESKAPEE pathogens in food and environmental samples
- Novel drug combinations designed to combat infections caused by ESKAPEE pathogens

### Guest Editors

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### Deadline for manuscript submissions

31 October 2025



## Antibiotics

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## About the Journal

### Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciplines are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

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### Editor-in-Chief

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