

Special Issue

Emerging Strategies in Infection Control and Antimicrobial Therapy

Message from the Guest Editors

Infectious diseases have remained a significant global health burden despite remarkable advancements in medical science. The overuse and misuse of antibiotics have led to the rapid emergence of antimicrobial resistance (AMR), threatening to undermine decades of medical progress. This Special Issue focuses on innovative, evidence-based strategies for infectious disease prevention and treatment. Topics include advanced diagnostics, personalized medicine, surveillance systems, novel antimicrobials, host-targeted therapies, and infection control. We emphasize translational research and cross-disciplinary collaboration among microbiology, pharmacology, epidemiology, and health policy. Topics of interest include (but are not limited to) Novel antimicrobial agents and drug delivery systems;

Strategies to combat antimicrobial resistance (AMR);

Rapid diagnostic tools and point-of-care technologies;

Infection prevention and control practices in healthcare settings;

Bacteriophage therapy and alternative therapeutics;

Immunomodulatory and host-directed therapies;

Surveillance programs and AI-driven predictive models;

Microbiome manipulation and probiotic interventions.

Guest Editors

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