

Special Issue

Antibiotic Resistance and Survival Strategies in Pathogens

Message from the Guest Editors

Antibiotic resistance poses a significant challenge to public health worldwide. While the emergence and spread of genetically encoded resistance mechanisms is well-recognized, bacterial survival strategies extend beyond resistance alone. Increasing attention is being paid to tolerance mechanisms that enable pathogens to persist under antimicrobial pressure without exhibiting traditional resistance traits. This Special Issue of *Pathogens* aims to highlight recent advances in our understanding of both antibiotic resistance and bacterial tolerance in pathogenic microorganisms. We welcome contributions focusing on molecular mechanisms of resistance, the prevalence of resistant strains in clinical and environmental settings, and novel resistance genes or phenotypes. In addition, we strongly encourage submissions addressing antibiotic tolerance and non-replicative survival strategies, such as the formation of persister cells and the viable but non-culturable (VBNC) state. These phenotypes allow pathogens to withstand hostile conditions, evade immune responses, and survive antibiotic treatment, contributing to recurrent and chronic infections.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics.

Pathogens is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

Editor-in-Chief

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