

Special Issue

Pathophysiology, Diagnosis and Therapy of Sepsis

Message from the Guest Editors

Sepsis is a clinical syndrome that results from the dysregulated inflammatory response to infection that leads to organ dysfunction. The resulting losses to society in terms of financial burden, morbidity, and mortality are enormous. Comprehensively defining "sepsis" has been the subject of constant development and refinement over the last decades. Although our understanding of sepsis origin, pathophysiology, and immunological mechanisms have progressed over the last three decades, our options for specific and successful therapeutic interventions remain limited. Only timely fluid resuscitation and early administration of broad-spectrum antibiotics have been shown to reduce mortality. A decisive factor is the time of correct diagnosis and the initiation of causal, supportive, and adjunctive measures. Moreover, the high heterogeneity of host response to infections and its changes with time require a personalized approach to patient management. This Special Issue focuses on manuscripts related to the recent advancements in the knowledge of sepsis mechanisms, diagnostic protocols including new biomarkers, and new developing therapies for improving the prognosis of septic patients.

Guest Editors

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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.

Editor-in-Chief

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