

Special Issue

Advances in Bacterial Sepsis

Message from the Guest Editors

Sepsis is a major global health threat and an intermediate cause of health loss contributing to roughly 20% of deaths worldwide. While any infection may lead to sepsis, bacterial infections are the most prevalent cause of sepsis and sepsis-related deaths in both children and adults. Antimicrobials and the mitigation of detrimental host responses have steadily improved sepsis mortality in the last couple decades; however, the expansion of antibiotic resistance is expected to significantly hamper our therapeutic toolkit against bacterial infections and sepsis in the near future.

Therefore, further studies are needed to understand the mechanisms underlying pathologic progressions to sepsis, identify predictive biomarkers, and establish algorithms to stratify patients and aid clinical decisions in sepsis. The Special Issue “Advances in Bacterial Sepsis” aims to assemble a collection of research articles and reviews that explore the molecular mechanisms behind bacteria and host interactions, the infection-driven immunological impairment promoting sepsis, and the subsequent multiple organ dysfunction and post-sepsis sequelae in survivors.

Guest Editors

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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.

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