

Special Issue

Challenges in the Diagnosis and Treatment of Cardiac and Respiratory Infections

Message from the Guest Editors

Cardiac and respiratory infections remain among the most complex and clinically significant challenges in modern medicine. Their overlapping symptoms, rapid progression, and diverse etiologies often complicate timely diagnosis, while emerging pathogens and antimicrobial resistance further hinder effective treatment. Advances in imaging, molecular diagnostics, and biomarker discovery are improving early detection, yet gaps persist in distinguishing infectious from non-infectious inflammatory conditions, especially in patients with underlying cardiopulmonary disease. Therapeutic decision-making is equally demanding, requiring careful balancing of antimicrobial stewardship, patient-specific risk factors, and the evolving landscape of targeted therapies. This Special Issue brings together current research, innovative technologies, and multidisciplinary perspectives aimed at refining diagnostic accuracy, enhancing treatment strategies, and ultimately improving outcomes for patients with cardiac and respiratory infections. The Special Issue will also focus on difficult-to-treat infections caused by multidrug-resistant pathogens and the treatment strategies.

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