

Review of: "Perspectives on the Immune System in Sepsis"

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This manuscript provides an updated review of the molecular and clinical mechanisms of sepsis. The various aspects of the inflammatory process in sepsis are well represented and grouped into various sub-chapters. The first part of the manuscript discusses the diagnostic process and the use of various biomarkers for the stratification and prognosis of patients with sepsis. Of particular interest is the discussion on the use of multi-omics sciences to identify new markers for prognosis, diagnosis and treatment of this pathology.

The authors deal with the pathobiology of sepsis by presenting the genes deregulated during the inflammatory process of the pathology and the various related miRNAs and lncRNAs. Of great interest is the description of the miRNAs and lncRNAs action mechanisms, also highlighting which ones are associated with an aggravation of the pathological condition and which ones instead have a positive effect. In the final part of the review, the ongoing tests for the sepsis treatment targeting specific markers of inflammation are described and analyzed.

In my opinion, the topics covered are very interesting and I have no comments to make.