

Special Issue

Medically Important Microbial Proteins

Message from the Guest Editors

The immune system's primary role is to combat microbial infections. Its features—variability, redundancy, memory, specificity, pan-reactivity, and synergism—equip it to counter almost any pathogen. However, the ongoing evolutionary "arms race" between microbes and the mammalian immune system leads to a complex array of interactions, creating a vast and largely unexplored spectrum of molecular interactions. This Special Issue focuses on microbial proteins that interact with the immune system, regardless of the microorganism type or interaction type. Priority will be given to proteins from medically significant microorganisms, such as ESKAPE pathogens, as well as potential protein vaccine antigens and drug targets. Research on proteins that notably influence immune system components through specific interactions or inhibition of immune responses is also encouraged. Given the extensive body of knowledge on medically relevant microbial proteins, we welcome review articles, meta-analyses, and opinions. However, original research papers will be prioritized.

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About the Journal

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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JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).