Special Issue

Research on Fungal Infections and Antimicrobial Resistance

Message from the Guest Editor

In 2023, the World Health Organization (WHO) published a list of fungal priority pathogens, categorizing several fungal species as high-priority or critical-priority pathogens. Research focusing on this list has become a global concern, as some of these pathogens exhibit drug resistance, leading to therapeutic failure and poor clinical outcomes. Addressing this issue necessitates an in-depth understanding of resistance mechanisms, including novel pathways contributing to resistance. Whole-genome sequencing has proven to be a powerful tool for identifying genes associated with drug resistance, providing valuable insights for developing targeted treatment strategies. Over recent decades, the use of immunomodulators to enhance the host immune response against fungal infections has garnered significant attention from researchers. Additionally, the One Health approach to combating resistant fungal infections emphasizes the need for innovative therapeutic strategies to overcome resistance mechanisms and improve patient outcomes. This Special Issue welcomes original research articles, review articles, perspectives, and short communications on these critical topics.

Guest Editor

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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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