

Special Issue

Mycosis and Antifungal Agents

Message from the Guest Editors

Mycoses, fungal infections spanning superficial to life-threatening invasive forms, present a growing global health concern. Key pathogens include pathogenic, dimorphic, and opportunistic yeast and filamentous fungi, with infections exacerbated in immunocompromised individuals. Synthetic and natural extract antifungals agents target essential fungal processes, inhibiting ergosterol synthesis, disrupting cell wall glucan synthesis, and compromising membrane integrity. Antifungal resistance is rising, driven by factors like widespread antifungal use, biofilm formation, and genetic mutations leading to altered drug targets or efflux pumps. This resistance compromises treatment efficacy, necessitates alternative therapies, and underscores the urgent need for improved diagnostics, stewardship programs, and the development of novel antifungals. Surveillance and research efforts are crucial to mitigating the impact of resistant fungal infections.

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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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