

Special Issue

Molecular Mechanisms of Resistance to Antifungals

Message from the Guest Editors

The antifungal therapeutic arsenal, particularly for invasive fungal infections, is limited. It is currently restricted to three primary classes: polyenes (e.g., amphotericin B), azoles (e.g., fluconazole, itraconazole, among others), and echinocandins (e.g., caspofungin, anidulafungin, and the most recent, rezafungin). However, adverse effects, high treatment costs, and low investment in the discovery of new antifungals have generated global concern regarding antifungal pharmacotherapy. Compounding this scenario, the literature reports an increase in resistant strains, such as azole-resistant *Aspergillus fumigatus*, as well as the emergence of multidrug-resistant species, such as *Candidozyma auris*. Consequently, the surveillance of these resistant strains and a deeper understanding of the molecular mechanisms of antifungal resistance are imperative. Thus, this Special Issue aims to gather research that advances knowledge on this subject, with the goal of supporting the bioprospecting of new antifungal agents and informing public policies

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"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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