Special Issue

Antifungal Compounds - Natural and Synthetic Approaches

Message from the Guest Editors

Although fungi tend to be opportunists, targeting only a fraction of the human population, fungal infections may have a serious clinical impact. As for bacteria, the widespread use of antifungal medicinal products has selected in time resistant pathogens. Fungal resistance to therapeutic agents is part of the larger phenomenon of microbial resistance. The small number of antifungal classes and the emergence of multidrug-resistant strains is particularly worrying. New compounds with known mechanisms of action may provide better or different safety profiles or improved pharmacokinetic profiles. Many plant extracts and natural pure compounds have been tested against a variety of fungal species, with different results and they may represent an alternative pathway leading to clinical development of novel antifungal medicinal products. Papers exploring antifungal development, particularly antifungal screening, antifungal target identification, molecular mechanisms involved in efficacy or safety aspects, physicochemical properties, and structure-activity relationships, will be considered for this Special Issue.

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