Special Issue

Anti-infective Properties of Natural Products

Message from the Guest Editors

The bullish rise of drug resistance among pathogens has raised serious alarms regarding the treatment of infections.There is thus an urgent need for novel antimicrobial agents able to counter the menace of antimicrobial drug resistance (AMR). Some alternative strategies for dealing with drug resistance include targeting the resistance mechanisms, such as inhibiting efflux pumps or beta-lactamases. Further, some approaches act on the virulence functions, quorum sensing and biofilms of pathogens and render them ineffective. These antimicrobial strategies reduce selective pressure on the microbial pathogens, eventually leading to decreased resistance.

Lead compounds for overcoming antimicrobial drug resistance from various natural products are well documented.Yet only a small number of natural products have been explored for anti-infective properties against pathogenic microbes. This Special Issue aims to shed light on recent discoveries of novel anti-infectives from natural products, including their mechanisms of actions, in silico studies, synergistic action with known drugs and in vivo studies. We welcome research as well as review articles for this Special Issue.

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Deadline for manuscript submissions

closed (31 July 2023)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/159742

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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