

Special Issue

Efflux Pump Inhibitors: An Update on the Search for New Antimicrobial Resistance Breakers

Message from the Guest Editors

Considering the microbial promptness in achieving successful mechanisms to escape antibiotic activity towards new drugs, the use of non-antibiotic adjuvant molecules that target resistance mechanisms is a valid approach to recover drug sensitivity in resistant microorganisms. Efflux pumps, reducing intracellular drug concentrations to subinhibitory levels and permitting microorganisms to grow in the presence of routinely adopted therapeutic doses, play a nonspecific role in the early stages of antibiotic exposure, thereby allowing microorganisms to develop more specific and effective mechanisms of resistance. Therefore, the use of efflux pump inhibitors (EPIs) in combination with extruded drug may be a promising strategy in the development of effective antimicrobial treatments.

This Special Issue aims to highlight the recent medicinal chemistry research on new bacterial, mycobacterial, pathogenic fungi, and protozoa EPIs.

Guest Editors

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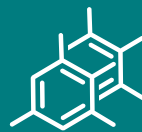
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