

Special Issue

Editorial Board Members' Collection Series: "Bacterial Enzymes as Targets"

Message from the Guest Editors

Exploring the enzymes essential for key bacterial functions presents an opportunity to develop innovative strategies for combating bacterial infections. Enzymes involved in cell wall biosynthesis are critical for maintaining bacterial cell structure and integrity. By inhibiting these enzymes, it is possible to disrupt cell wall formation, rendering bacteria susceptible to immune responses or other treatments. Similarly, enzymes involved in DNA replication are essential for bacterial proliferation. Targeting these enzymes can impede DNA synthesis and disrupt bacterial replication, potentially curbing infection progression... Moreover, by focusing on enzymes pivotal for bacterial survival, such as carbonic anhydrase, novel therapeutic strategies can be designed to offer effective treatment options for bacterial infections. Thus, the process of understanding and targeting specific bacterial enzymes represents a promising avenue for the development of novel antibacterial agents, as well as for tackling infections and combating antibiotic resistance.

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