



Drug Targeting towards Fighting Pathogen Bacteria

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Message from the Guest Editor

One of the major public health concerns of the 21st century is the continuous emergence of antibiotic-resistant strains, which cause a serious threat to the efficient prevention and treatment of bacterial-related infections.

Antibiotic resistance can be considered an inevitable consequence of the rambunctious and unregulated use of antibiotics, which remains a major factor facilitating the emergence of antibiotics resistance worldwide.

Several fields of medicine depend on the availability of antibiotic drugs; for instance, the immunosuppression induced by cancer therapy and long-term vascular catheter placement make cancer patients susceptible to bacterial infections often caused by resistant organisms, such as methicillin-resistant *Staphylococcus aureus* (MRSA) and vancomycin-resistant enterococci (VRE). Thus, to avoid secondary infections, cancer patients are routinely given antibiotics, which cause many side effects, including antimicrobial resistance.

Conventional antibiotics have many disadvantages, such as the development of resistance and, in some cases, a low therapeutic index.

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Message from the Editor-in-Chief

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