New Strategies Combating Bacterial Infection

This ready reference and handbook focuses on combating multi-drug resistance in bacteria by developing antibacterials with new target sites, using new advances in drug discovery as well as natural products.

Combating bacterial infections calls for a multidisciplinary approach and this is what is on offer here. Written by an experienced international team of researchers from various fields ranging from biotechnology to traditional medicine, the book provides complete and comprehensive coverage of topics relevant to new antibacterial drugs.

Divided into three sections, the first describes the problem of drug resistance and the need for new drugs, while the second treats recent trends and new classes of drugs, including relevant developments in transcriptomics and proteomics leading to new antimicrobial drug discovery, and a new generation of antibiotics and non-antibiotics. The third section on natural products discusses the antibacterial action of phytocompounds, plant extracts, essential oils and honey as well as the role of probiotics in bacterial infections.

Invaluable to students of medicine, pharmaceutical sciences, phytomedicine and microbiology and all those wanting to know about the possibilities and limitations of new antibacterial drugs. Furthermore, its coverage of plants and other natural products makes this relevant to the pharmaceutical and herbal industries.