

Special Issue

Focus on Antibiotics – New Challenges and Steps Forward in Discovery and Development, 2nd Edition

Message from the Guest Editors

The design of new antibiotics is still considered the primary weapon in the fight against the growing bacterial resistance to known antibiotics. Continuous discoveries about the structure–activity relationship in the different antibiotic classes and advances in computer-aided drug design (CADD) methods will contribute to the coming new generations of antibiotics. A new trend targets old antibiotics and other compounds from various therapeutic classes for optimization and repositioning. Additionally, hybrid drugs incorporating two active compounds into a single molecule could expand antibacterial activity and prevent bacterial resistance. Different metal complexes in antibiotics and other organic substances have already shown their potential for antibacterial activity. New compounds with antibacterial activity are in various research stages: proteic compounds, siderophores, quinoxolidinones, natural antibiotics, antibiotic resistance breakers, and others. The second volume of this Special Issue volume II aims to highlight the recent steps toward discovering new antibiotics.

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