



Recent Trends in Antibiotic Drug Development

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Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editor

Dear Colleagues,

The increasing number of life-threatening infections due to resistant Gram-positive and Gram-negative pathogens is becoming more and more alarming. In the last 50 years, only a small number of new chemical classes of antibacterial agents have reached clinical practice, while at the same time, the number of multi-drug-resistant bacteria is rising. In 2017 the World Health Organisation published a list of bacteria for which new antibiotics are urgently needed. Among these, Gram-negative carbapenem-resistant *Acinetobacter baumannii*, *Pseudomonas aeruginosa*, and *Enterobacteriaceae* have the highest, critical level of priority, followed by the Gram-positive *Staphylococcus aureus* and *Enterococcus faecium* resistant strains. New antibacterial drugs with novel mechanisms of action and novel strategies are thus needed to successfully fight these pathogens in the future.

The focus of this Special Issue in *Pharmaceutics* will be devoted to recent advances in the development of small molecules as well as alternative strategies for treating infections with Gram-positive and Gram-negative bacteria.





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Message from the Editor-in-Chief

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Journal Rank: JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q1 (Pharmaceutical Science)

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