

## Special Issue

# Design and Preparation of Antimicrobial Agents

### Message from the Guest Editor

The inappropriate use and misuse of antibacterial agents led to the emergence of (multi)resistant bacterial strains that represent one of the biggest threats to public health. Several common infections are very hard or almost impossible to cure with the current arsenal of antibacterial agents. Therefore, there is an urgent need for the research and development of new antibiotics.

There are numerous different methods to design new antibacterial agents, i.e., (i) the structural modification of known antibiotics to avoid the bacterial resistance mechanism; (ii) the development of compounds that inhibit the mechanism of resistance to antibiotics; (iii) new antibacterial agents with novel mechanisms of action. This Special Issue will publish the most recent research in the design and preparation of new antibacterial agents with potential use in human or veterinary medicine. Therefore, we invite authors to submit original research papers or reviews covering all aspects of this thematic issue. Keywords: new antimicrobial agents; drug design; synthesis of new antibacterial drugs; computational chemistry; drug repurposing; novel mechanism of antibacterial action

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### Guest Editor

Dr. Martina Hrast

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### Deadline for manuscript submissions

closed (31 May 2022)



## Antibiotics

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## About the Journal

### Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciplines are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

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### Editor-in-Chief

Prof. Dr. Nicholas Dixon  
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