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Innovations in Antibacterial Agents: Combating Resistance, Improving Efficacy and Exploring New Mechanisms

Guest Editors:

Dr. Rok Frlan

The Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Ljubljana, Ljubljana, Slovenia

Dr. Martina Hrast

Faculty of Pharmacy, University of Liubliana, Liubliana, Slovenia

Deadline for manuscript submissions:

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Message from the Guest Editors

Dear Colleagues,

The inappropriate use of antibacterial agents has promoted the emergence of resistant strains of bacteria and poses a significant threat to public health. The pervasive problem of antimicrobial resistance is exacerbating healthcare crises worldwide, leading to increased mortality rates and rising healthcare costs.

This Special Issue aims to present a broad spectrum of research in the field of medicinal chemistry of antibacterial compounds and we welcome manuscripts that address both traditional and computational drug design strategies. from target identification to the application of machine learning and the screening of diverse chemical libraries in the discovery processes. In terms of publication priorities, modern methods, including virulence factor inhibitors, nanoparticles, antimicrobial peptides, phage therapy, and antisense oligonucleotides, are at the forefront. Papers dealing with the design and synthesis of new classes of antibacterial agents that introduce novel mechanisms of action, as well as studies focusing on the chemical synthesis and optimization of existing antibacterial agents, whether semi-synthetic or fully synthetic, are also welcome.













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Editor-in-Chief

Prof. Dr. Nicholas Dixon

School of Chemistry and Molecular Bioscience, University of Wollongong, Wollongong, NSW 2522, Australia

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 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 disciples 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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