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Evaluation of Emerging Antimicrobials

Guest Editor:

Dr. Dilep Kumar Sigalapalli
Department of Biochemistry, University of Washington, Seattle, WA, USA

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Message from the Guest Editor

Antimicrobials are therapeutic agents used in the treatment and/or prevention of infections. They include antibiotics, antivirals, antifungals, antiparasitics, and antiseptics. Antimicrobial agents can interfere with cellular processes like cell wall/membrane synthesis and the activity of cellular enzymes, thereby preventing their growth, or they can directly kill the microorganisms. As defined by the WHO (World Health Organization), antimicrobial resistance occurs when microorganisms change over time and do not respond to treatment, thereby making infections difficult to treat and increasing their severity and spread, leading to death. The overuse and misuse of antimicrobials is a serious driver of antimicrobial resistance. Antimicrobial resistance is a global concern and demands the urgent development of novel antimicrobial agents with diverse chemical structures and novel mechanisms of action to overcome it.

This Special Issue aims to present new chemical agents (NCEs) and their antimicrobial evaluation against different microorganisms. It also encourages any novel advances in the mechanistic insights of known antimicrobial agents toward infections.

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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 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 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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Contact Us

Antibiotics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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