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# **Design and Synthesis of Antimicrobial Compounds**

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## **Message from the Guest Editors**

Dear colleagues,

The synthesis, characterization and evaluation of the antimicrobial properties of organic or coordination compounds is the first step in realizing new antimicrobial agents. Bioinformatic analysis and the study of redox properties and reaction mechanisms help in understanding, redesigning and optimizing the characteristics of potential active molecules for fighting microorganisms (bacteria, fungi, and viruses).

At the moment, infection by the virus SARS-CoV-2 is a threat clearly perceived all over the world. Less widespread and broadcasted is the concern regarding microorganisms such as bacteria and fungi, especially for those with depleted immune systems. According to the European Centre for Disease Control, 3.8 million people acquire healthcare-associated infections and ca. 90,000 people die from them per year (data from 2018) in the EU.

The aim of this Special Issue is to put together relevant research on molecules that have the potential to contribute to reducing the number of fatalities caused by bacteria or fungi, as well as controlling microorganisms on agricultural crops and food.













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## **Editor-in-Chief**

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## **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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