Topical Collection

Staphylococcus– Molecular Pathogenesis, Virulence Regulation and Antibiotics Resistance

Message from the Collection Editor

Staphylococci have attracted recent attention because of their pathogenic potential and their ability to become resistant to antibiotics. In particular, methicillin-resistant S. aureus (MRSA) has been extensively studied. Historically associated with hospitals and other healthcare settings, in the last decade, it has also become a frequent cause of infections in the community. The finding that MRSA, as well multidrug-resistant staphylococci, frequently colonize animals, including home pets, has been a reason for concern. The concept of "One Health" clearly recognizes the link between human health and animal health. Microbiome studies are currently underway to determine the composition of staphylococcal species on the skin of animals, including dogs, cats and birds. The question is whether these bacteria can cause diseases in humans. This Special Issue seeks manuscript submissions that will further our understanding of the virulence mechanisms of staphylococci. Submissions that contribute to answering the question of whether methicillin-resistant staphylococci and multidrug-resistant staphylococci occur in domestic and farm animals are especially encouraged.

Collection Editor

Prof. Dr. Ewa Szczuka

Department of Microbiology, Institute of Experimental Biology, Faculty of Biology, Adam Mickiewicz University, Poznań, Uniwersytetu Poznańskiego 6, 61-614 Poznań, Poland

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Antibiotics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
antibiotics@mdpi.com

mdpi.com/journal/antibiotics

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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 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.

Editor-in-Chief

Prof. Dr. Nicholas Dixon
School of Chemistry and Molecular Bioscience, University of Wollongong, Wollongong, NSW 2522, Australia

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