



Antimicrobial Resistance and Antibiotic Alternatives in Livestock

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Message from the Guest Editors

Recently, the conditions for the use of antibiotics in food-producing animals have changed around the world and several countries have banned the use of antibiotics firstly as growth promoters and subsequently as prophylaxis agents. Food-producing animals are a major source of MDR transmission via the food chain. Several bacteria carried by animals can also cause disease in people. Consequently, consumers are now seeking alternatives and demonstrating an increasing preference for meat obtained without antibiotics. Over the years, several effective strategies have been introduced to maintain the health of food-producing animals. Among these alternatives, probiotics, prebiotics, bacteriocins and bacteriophages are promising. This Special Issue includes studies regarding the development of antibiotic resistance in livestock as well as those related to alternatives to antibiotics in food animal production and in the control of multidrug-resistant bacteria.





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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.

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