



## One Health and Antibiotic Use in Veterinary Medicine

Guest Editor:

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### Message from the Guest Editor

Dear Colleagues,

Antibiotics are commonly used in veterinary medicine to prevent and control bacterial infections. The misuse of antibiotics in animals can contribute to the development of antibiotic-resistant (AR) bacteria, which might affect both humans and animals. Of great interest is that the AR problem can affect not only pathogenic bacteria but also microflora, which can act as a silent reservoir for the emergence of AR bacteria.

Many countries have set regulations and surveillance programs to control the use of antibiotics and monitor the presence of AR bacteria in animals; however, this is still to be globalized.

Understanding the current situation of antibiotic use in veterinary medicine, with the subsequent effects on AR bacteria in humans and the surrounding environment, together with finding alternatives of using antibiotics, will help to reduce the AR bacteria issue.

**Keywords:** antibiotics in animals; antibiotic resistance; antibiotic-resistant bacteria; antibiotic-resistant microflora; zoonoses; AMR in wild animals; one health; public health; WGS; alternatives to 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 disciplines 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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