



Antimicrobial Use and Antimicrobial Resistance in Food Animals

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Message from the Guest Editor

Antimicrobial agents play an important role in the treatment of infectious disease. Rational use of antimicrobial agents (AMU) in food animals is key for animal health and public health. However, the inappropriate use of antimicrobials in food animals may be a driver of antimicrobial resistance (AMR). The AMU and AMR in food animals is a complex and global issue. The WHO, OIE, and FAO work together to establish the guidelines for the monitoring and surveillance of foodborne AMU and AMR. The CODEX is developing the code of practice to minimize and contain foodborne AMR. This Special Issue will focus on antimicrobial use and antimicrobial resistance in food animals, including but not limited to the following areas:

1. Rational use of antimicrobial agents;
2. Antimicrobial resistance and molecular mechanism;
3. Relationship between AMU and AMR in food animals;
4. New antimicrobial agents and alternatives.





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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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