

# Special Issue

## Antibiotic Use in Veterinary

### Message from the Guest Editor

The sustainable use of antibiotics in veterinary medicine is one of the greatest challenges for the scientific community. The use of antimicrobials in livestock is essential for animal welfare reasons and to achieve the productivity levels required to attend to the increasing demand for animal goods. However, the unwise use of antimicrobials has caused serious resistance problems in animals through the selection and amplification of resistance genes, as well as the presence of residues in food and the environment. This Special Issue seeks to receive manuscripts that expand our understanding of antimicrobial resistance, as well as those that develop pharmacokinetic/pharmacodynamic models for optimising dosage regimens and minimizing antimicrobial resistance. Submissions related to the following topics are particularly valued:

- Antimicrobial resistance
- Pharmacokinetics and pharmacometrics
- Ecotoxicology.
- Pharmacokinetic/pharmacodynamic modelling

keywords: pharmacokinetics; PK/PD modelling; pharmacodynamic modelling; antimicrobial resistance; metagenomics; metabolomics; resistome; pharmacometrics; antimicrobial residues

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### Guest Editor

Dr. Manuel San Andres

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### Deadline for manuscript submissions

closed (30 April 2022)



## Antibiotics

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. Nicholas Dixon  
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