

Special Issue

Antimicrobials and Antiparasitics in Animal Health and Production

Message from the Guest Editors

The sustainable use of antimicrobials and antiparasitics in veterinary medicine is one of the greatest challenges for scientific community, animal health and food production systems, in line with “One Health” paradigm. The use of these compounds in livestock is essential for animal health and welfare reasons, and to guarantee the required productivity levels to satisfy the increasing demand of animal goods. This special issue aims to receive manuscripts that expand our knowledge about antimicrobial/antiparasitic resistance, development of new alternative strategies and those for optimising dosage regimens and minimizing resistance like pharmacometric and pharmacokinetic/pharmacodynamic modeling studies. Submissions related to the following topics will be particularly valued:

- Antimicrobial/antiparasitic resistance: resistance mechanisms, metagenomics, metabolomics, epidemiology
- Alternative strategies: novel therapeutic alternatives
- Pharmacokinetics and pharmacometrics: pharmacokinetic and population PK/PD approaches, pharmacodynamic modelling, dosage optimization and metabolomics applied to pharmacokinetics, Residues and ecotoxicology

Guest Editors

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Deadline for manuscript submissions

closed (31 October 2023)



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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.

Editor-in-Chief

Prof. Dr. Nicholas Dixon
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