Special Issue

Molecular Insights into Drugs in Livestock: Oxidative Stress, Metabolism and Toxicity

Message from the Guest Editor

This Special Issue aims to explore the molecular mechanisms underlying the effects of veterinary drugs (including antibiotics, antiparasitics, growth promoters, and anti-inflammatory agents) on livestock, with a particular emphasis on (1) oxidative stress induction and cellular damage; (2) drug metabolism and bioactivation pathways; (3) and toxicity mechanisms and long-term health impacts. This Special Issue will integrate pharmacology, toxicology, and veterinary science to provide a comprehensive understanding of how drugs interact with biological systems in farm animals. Scope: Contributions should address, but are not limited to, the following themes: (A) Drug-induced oxidative stress in livestock; (B) Drug metabolism and species-specific differences; (C) Molecular mechanisms of drug toxicity; (D) Mitigation strategies and alternatives.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

Editor-in-Chief

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