

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

Prof. Dr. Liping Wang

College of Veterinary Medicine, Nanjing Agricultural University, Nanjing, China

Deadline for manuscript submissions

closed (14 January 2026)



Toxics

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/247795

Toxics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
toxics@mdpi.com

[mdpi.com/journal/
toxics](https://mdpi.com/journal/toxics)





Toxics

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed



[mdpi.com/journal/
toxics](https://mdpi.com/journal/toxics)



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

Dr. Demetrio Raldúa
Department Environmental Chemistry, IDAEA-CSIC, Jordi Girona 18,
08034 Barcelona, Spain

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Toxicology) / CiteScore - Q1 (Chemical Health and Safety)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the second half of 2025).