



## Drug Resistance in Ruminants: Rational Use of Anthelmintics and Alternative Strategies

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### Message from the Guest Editors

Gastrointestinal nematodes (GINs) are of paramount importance in ruminant production systems, as they affect animal health and welfare, and cause significant economic losses to the livestock industry. The management and control of GIN infections is a challenging task, and is currently almost entirely dependent on efficient anthelmintic drugs. However, the improper use (over- and mis-use) of anthelmintics has led to the development of anthelmintic resistance. There have been reports of GIN populations resistant to multiple classes of anthelmintics worldwide, representing a clear threat to existing GIN control programs. Therefore, the emergence of anthelmintic resistance in livestock increasingly requires the rational use of anthelmintics and alternative remedies for helminth control.

The aim of this Special Issue is to present the latest research and reviews on anthelmintic resistance and GINs fauna, on the rational use of anthelmintics, and on alternative approaches to the control of GINs in livestock.





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