



## Sustainability in Silage Production

Guest Editors:

**Dr. Carlos Henrique Silveira Rabelo**

Federal University of Pelotas,  
Brazil Universidade Federal de  
Pelotas, Departamento de  
Fitotecnia, Capão do Leão, RS,  
Brasil

**Prof. Dr. Ricardo Andrade Reis**

Animal Science Department,  
School of Agrarial and  
Veterinarian Sciences,  
Jaboticabal, Sao Paulo 14884-  
900, Brazil

**Prof. Dr. Xusheng Guo**

School of Life Sciences, Lanzhou  
University, Lanzhou, China

Deadline for manuscript  
submissions:

**31 August 2024**

### Message from the Guest Editors

Forage preservation through the ensiling process is the primary way to ensure animal feeding during drought and under intensive production systems in several countries worldwide. However, silage fermentation can produce varied amounts of volatile compounds and effluent. Moreover, greenhouse gas emissions from livestock can be affected by the quality of silage fed to animals. As the world's population is increasingly demanding sustainable production systems in diverse areas, this involves silage production because it compounds a significant part of many animal diets. Thus, research covering the different strategies of silage management (use of silage additives, silo covering, delay to ensiling, packing, silage removal from the silo, silage processing and feeding, and so on) has been conducted to reduce undesirable products from silage fermentation; the use of the ensiling process as a strategy that uses by-products for animal feeding is needed. Therefore, considering the current interest in sustainable systems of animal production, this Special Issue covers a wide variety of management strategies aiming to contribute to the overall knowledge of sustainable silage production.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Dilantha Fernando**  
Department of Plant Science,  
University of Manitoba, Winnipeg,  
MB R3T 2N2, Canada

## Message from the Editor-in-Chief

*Plants* is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

## Contact Us

---

*Plants* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/plants](http://mdpi.com/journal/plants)  
[plants@mdpi.com](mailto:plants@mdpi.com)  
[X@Plants\\_MDPI](https://twitter.com/Plants_MDPI)