



Potential Roles of Forage Silage in Sustainable Agricultural Production

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Message from the Guest Editor

Ensiling forages faces important challenges and offer opportunities to increase farm productivity while reducing environmental impacts. Growing and ensiling legumes can improve soil fertility and protein self-sufficiency throughout the year, decreasing global impacts on ecosystems and biodiversity. Technological innovations and molecular biology offer opportunities to improve silage quality and better control the microbial activities, leading to enhanced feed efficiency and reduced pollutant emissions (GHG, ammonia) from the silo to the animal. The incorporation of natural bioactive compounds, by-products or silage additives can improve fermentation and aerobic stability, and reduce contamination by pathogens and mycotoxins. Fermented forages are also used as substrates for biogas production and bio-refineries. This special issue will provide an insight into forage types and all types of innovations that allow producing safe high-quality silages and promoting sustainable agriculture.





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Message from the Editor-in-Chief

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