Quantification and Mitigation Strategies to Reduce Greenhouse Gas Emissions from Livestock Production Systems

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Message from the Guest Editors

Dear Colleagues,

In recent years, the climate change has become a growing international concern. The release of greenhouse gases (GHG) predominantly derived from human activities. The livestock sector, particularly ruminants, contributes approximately 18% of total anthropogenic GHG emissions (Steinfeld et al., 2006). GHG emissions arise from processes both on and off the farm and include methane (CH_4), nitrous oxide (N_2O) and carbon dioxide (CO_2).

Efficient agricultural practices are key to reducing GHG emissions. These practices can be achieved through several aspects of livestock production. For example, livestock genetic improvement, changes in feeding strategies, nutritional improvement, disease control, and animal health improvement, improvement in animal welfare and husbandry.

This Special Issue seeks contributions including reviews and original research in two broad but related areas: 1) measurement techniques and protocols, use of proxies, methodological opportunities and challenges including uncertainty in quantification of GHG emissions from livestock systems; and 2) methods, techniques, and strategies for reducing GHG emissions from livestock production systems.

Special Issue

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Message from the Editor-in-Chief

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