Special Issue

Strategies and Practices to Mitigate Greenhouse Gas and Nitrogen Emissions from Livestock Production Systems

Message from the Guest Editor

The successful development of animal husbandry by maximizing production at minimum costs and inputs has led to a situation where it is now responsible for a range of adverse environmental impacts. Despite that the environmental load per unit of produce, e.g., per kg milk or meat, is relatively low, the load per surface area is high. This is especially so in densely populated and agriculturally intensive areas. Reductions in nutrient losses and GHG- and N-emissions have been achieved to varying extents by single-issue approaches and modifications to the biophysical production system. But further improvements to all environmental aspects are required, without undue trade-offs and negative side effects. Therefore, research work on feeding, grazing, and housing practices, techniques and strategies that reduce ammonia, and/or GHG emissions to the air and nitrate to the (ground) water are welcomed to this Special Edition. Capturing of methane and ammonia, as well as other gases from the barn and manure storage facilities, are also of great interest. Moreover, nutrient management tools and use of carbon credits, etc., fit into this theme.

Guest Editor

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