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Algae (Macro/Microalgae): Its Impact on Ruminant Nutrition and Environmental Sustainability

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Message from the Guest Editors

Dear Colleagues,

Food security is a global challenge, and as demand for food increases, an urgent need to increase the protein supply from sustainable sources is created. The main concerns are that climate-induced shifts will increase the cost of animal protein/feed due to an increased demand for land and water and the greenhouse gas emissions. It is crucial to find strategies to improve feed efficiency and decrease emissions. One approach is the use of algae in ruminant nutrition, which could contribute to the freeing up of land to grow crops for direct consumption by the human populace and lead to a concomitant increase in food security. Microalgae are a great source of PUFA, while brown seaweed containing phlorotannins has the potential to optimise protein use efficiency, reduce environmental impact, and improve animal health and food quality. The aim of this Special Issue is to publish current and relevant information related to the use of algae in ruminant nutrition. In particular, original research papers and reviews that address any aspect of their use and their effect on feed efficiency, animal health, methane emissions and the quality of animal products are welcome.



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Special Issue



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Message from the Editor-in-Chief

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