

Special Issue

Nutritional and Management Strategies for Heat-Stressed Ruminants

Message from the Guest Editor

Global climate change has intensified the frequency and severity of heatwaves, threatening the sustainability and profitability of ruminant livestock production. Prolonged exposure to elevated environmental temperatures compromises feed intake, metabolic efficiency, immune function, and productivity. This Special Issue will advance scientific knowledge on innovative nutritional and management strategies to mitigate the adverse effects of heat stress in ruminant livestock, including beef and dairy cattle. We invite original research and review articles focusing on nutritional interventions, encompassing the use of plant-derived bioactives, probiotics, prebiotics, and precision feeding strategies; electrolyte balance adjustments, dietary energy and protein optimization; and climate-adaptive housing and cooling technologies. Contributions assessing the long-term consequences of prenatal and early-life heat stress, as well as strategies to mitigate transgenerational effects on offspring health and performance, are also highly encouraged.

Guest Editor

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Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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