

## Special Issue

# Heat Stress and Livestock: Effects on the Physiology

### Message from the Guest Editors

Climate change has brought unprecedented challenges to livestock production worldwide, with rising temperatures and more frequent extreme heat events significantly impacting animal welfare and productivity. This special issue aims to compile cutting-edge research examining the physiological responses of livestock to heat stress and innovative approaches to mitigate these effects.

In this Special Issue, we invite original research papers, reviews, and case studies addressing topics including, but not limited to, the following:

Neuroendocrine and metabolic adaptations to heat stress in different livestock species;  
Impacts on reproductive physiology and fertility;  
Immunological consequences and disease susceptibility under heat stress conditions;  
Genetic and epigenetic mechanisms of thermotolerance;  
Novel biomarkers for heat stress assessment;  
Precision livestock technologies for monitoring physiological parameters;  
Nutritional interventions to alleviate heat stress effects;  
Comparative physiology across breeds and production systems.

We look forward to receiving your contributions.

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### Guest Editors

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### Deadline for manuscript submissions

31 October 2025



## Animals

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## About the Journal

### 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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### Editor-in-Chief

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