



## Thermal stress—Thermoregulatory and Adaptive Responses of Livestock

Guest Editors:

**Prof. Dr. Alfredo Manuel  
Franco Pereira**

**Dr. Cristiane Gonçalves Titto**

**Dr. Ana Geraldo**

**Prof. Dr. Henrique Hooper**

Deadline for manuscript  
submissions:

**closed (15 December 2021)**

### Message from the Guest Editors

The thermal environment is the most significant factor determining the growth, reproduction, and performance of domestic animals.

Thermoregulatory responses may differ in intensity and time depending on the type of thermal stimuli, as well as to the specific animal's anatomical characteristics. Short-term physiological responses are often caused by acute stressors like a heat wave, for example, while the long-term responses may be due to chronic stressors. Differences of anatomical and physiological features across species have led to different specialization of heat exchange, leading to distinct thermal tolerance.

We invite original papers (i.e., research articles and review articles) that address the thermoregulatory and adaptive responses of livestock and wild ruminants to thermal stress. The topics of the Special Issue “Thermal stress - Thermoregulatory and adaptive responses of livestock” include thermoregulation, adaptive behaviour, cellular responses, reproduction and health, performance under thermal stress, acclimatization, and adaptation.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Clive J. C. Phillips

1. Curtin University Sustainable Policy (CUSP) Institute, Curtin University, Kent St., Bentley, Western Australia 6102, Australia  
2. Former Foundation Professor of Animal Welfare, University of Queensland and Foundation Director, Centre for Animal Welfare and Ethics, University of Queensland, Brisbane, Australia

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PubAg, AGRIS, Animal Science Database, CAB Abstracts, and other databases.

**Journal Rank:** JCR - Q1 (Veterinary Sciences) / CiteScore - Q1 (General Veterinary)

## Contact Us

---

*Animals* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/animals](http://mdpi.com/journal/animals)  
[animals@mdpi.com](mailto:animals@mdpi.com)  
[X@Animals\\_MDPI](#)