



## High-Yielding Dairy Cows

Collection Editor:

**Prof. Dr. João Carlos Caetano Simões**

Department of Veterinary  
Sciences, Animal and Veterinary  
Research Centre (CECAV),  
University of Trás-os-Montes e  
Alto Douro, 5001-801 Vila Real,  
Portugal

### Message from the Collection Editor

In recent decades, genetics, nutrition, and management improvements have led to high-yielding dairy cows. These improvements pose threats and challenges to animal health and welfare due to metabolic stress. Metabolic stress is characterized by excessive lipomobilization, inflammatory and immune dysregulations and oxidative stress on body organic systems. It mainly occurs during the periparturient period. Cows are more susceptible to metabolic and infectious diseases such as ketosis, digestive alterations, metritis, mastitis, lameness and different degrees of infertility. The ultimate goal of this Special Issue is to aggregate new information driving to more efficient dairy cow production in confinement and pasture systems. Research studies directly or indirectly assessing all aforementioned aspects in high-producing dairy cows are welcome. Additionally, we invite research papers which promote the use of new technologies and the automatization of processes (including Agriculture 5.0) in dairy farms, as well as the production impact on the environment and public health.





an Open Access Journal by MDPI

## Editor-in-Chief

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

1. Institute of Veterinary Medicine  
and Animal Sciences, Estonian  
University of Life Sciences,  
Kreutzwaldi 1, 51014 Tartu,  
Estonia

2. Curtin University Sustainability  
Policy (CUSP) Institute, Kent St.,  
Bentley 6102, 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 (2023, ranks 10/80 (Q1) in 'Agriculture, Dairy & Animal Science'; 16/167 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.0.

## 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](#)