

Topical Collection

High-Yielding Dairy Cows

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 Collection 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.

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



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Animals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
animals@mdpi.com

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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.

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

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