

Special Issue

Unveiling Equine Exercise Physiology for Peak Performance and Optimal Health

Message from the Guest Editors

The horse is a remarkable athlete. Achieving such remarkable feats can subject the horse's physical and mental capacities to significant stress. Mismanagement of stress can lead to a decline in athletic performance and, in worst case scenarios, injury. As a result, a comprehensive understanding of equine physiology is essential not only for enhancing performance but also for safeguarding the horse's health.

While there are numerous studies and publications investigating equine exercise physiology, the integration of new technologies—such as GPS, heart rate monitors, inertial sensors, and AI-driven movement analysis—offers transformative tools for veterinarians and trainers. These innovations help fine-tune training regimens, enable early detection of potential health issues, and contribute to injury prevention, all of which are vital to the welfare of sport horses.

This Special Issue brings together research on all aspects of equine sports medicine, examining the respiratory, cardiovascular, musculoskeletal, and gastrointestinal systems, along with behavioral studies.

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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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