

Special Issue

EMG and Biomechanical Analysis of the Equine Gait

Message from the Guest Editors

Equestrianism is popular worldwide, with millions of horses and riders participating in competitive horse sports and noncompetitive leisure riding. Understanding how the horse moves and the ways in which the musculoskeletal system supports locomotion is essential to enabling the evaluation of equine performance, assessing the impact of pain, disease, and injury on function, optimising training programmes, and analysing the impact of the rider on the horse. This Special Issue aims to showcase emerging research investigating how equine muscle functions and which factors influence muscular activity using electromyography (EMG). Additionally, we are eager to discuss advances in equine biomechanics, as well as how each of these can be applied to inform horse management and training practices.

Guest Editors

Dr. Jane M. Williams

Head of Research, Associate Professor, Equine Department, Hartpury University, Gloucester, UK

Dr. Russell Mackechnie-Guire

1. Equine Sciences Department, Hartpury University, Gloucester, UK
2. Centaur Biomechanics, Dunstaffanage House, Moreton Morrell CV35 9BD, UK

Deadline for manuscript submissions

closed (28 March 2025)



Animals

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 5.2
Indexed in PubMed



mdpi.com/si/187536

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

[mdpi.com/journal/
animals](https://mdpi.com/journal/animals)





Animals

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 5.2
Indexed in PubMed



[mdpi.com/journal/
animals](https://mdpi.com/journal/animals)



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.

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
-

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)