



Advances in Equine Genetics and Breeding

Guest Editors:

Dr. Robin E. Everts

Etalon Inc., Menlo Park, CA
94025, USA

Dr. Samantha A. Brooks

Brooks Equine Genetic Lab.,
Department of Animal Science,
Genetic Institute, University of
Florida, Gainesville, FL, USA

Deadline for manuscript
submissions:

30 June 2025

Message from the Guest Editors

Advances in genetics enabled us to discern genes and mutations for various phenotypes in horses, including traits for health, performance or coat color. It also has provided avenues to measure actual inbreeding percentages and allows for tools to establish long-term health and conservation of different breeds. All this information can now be used to help breeders be more successful in creating the type of horse they dream of. In this issue, research on all aspects of horse genetics, breeding and reproduction, as well as other topics, will be considered as they guide breeders to this goal. These topics could include molecular genetics, biodiversity, life cycles, and functional gene and regulatory mechanisms in complex traits.

The aim of this Special Issue of *Animals* is to collate the latest advances and insights from the research fields of (comparative) genetics, regulatory mechanisms, and breeding methods of horse. We strive for this Special Issue to provide a better understanding of the genetic mechanisms underlying complex traits and provide new approaches to improve the breeding of horses.





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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.

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Contact Us

Animals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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