

Special Issue

Genetic Basis of Equine Performance and Orthopedic Conditions

Message from the Guest Editors

- Horse breeding for performance has always been considered as much art as science. However, the advent of high-throughput genetics and genomics tools, and the decreasing costs of these tools, have surged interest in using genetics to select for specific performance traits.
- Orthopedic disease is an important contributor to poor performance in horses, making it another target of interest for ongoing genetics research. High-throughput genotyping and genome-wide association studies are being paired with tissue-specific (or single-cell) transcriptomics, proteomics, metabolomics, and lipidomics to give a more complete picture than ever before of the molecular mechanisms that underlie performance and disease. Concurrently, the development of new data analysis pipelines is allowing for integration of data types, moving the field towards the goal of precision management.
- The intention of this collection is to highlight the advances in exploring the genetic basis of equine performance and orthopedic conditions, and we invite researchers to contribute their latest findings as original works or review articles.
- We look forward to receiving your contributions.

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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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