



animals



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Advances in Equine Genetics and Breeding

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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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Special Issue



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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: 3.0 (2022, ranks 12 /62 (Q1) in ‘Agriculture, Dairy & Animal Science’; 13/143 (Q1) in ‘Veterinary Sciences’), 5-Year Impact Factor: 3.2.

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