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Equine Genetics

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Message from the Guest Editors

Horses show a remarkable phenotypic variation both between and within breeds. The development of specific horse breeds has resulted in selection for athletic phenotypes that enable the use of horses for riding, racing, and recreation, with clear differences in morphology and behavior. However, the breed formation process has also enriched different horse breeds for disease mutations, and sometimes these mutations are breed specific.

The overall goal for the equine genomics research community is to take advantage of this extensive phenotypic diversity in order to improve the health and welfare of horses.

The development of more advanced genomic tools continues to accelerate variant mapping in equines. Deeper information on the structure and function of the equine genome generated by advanced functional annotation and cross-species sequence comparisons facilitate insights into processes of genome function, selection, and adaptation, as well as evolution.

This Special Issue on equine genetics aims to present some of the latest advances in evolution and genome-to-phenome research in a non-model species of both medical and agricultural interest.



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Special Issue



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Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

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