



genes



an Open Access Journal by MDPI

Marker-Assisted Selection in the Equine

Guest Editor:

Dr. Sofia Mikko

Department of Animal Breeding and Genetics, Swedish University of Agricultural Sciences, S-750 07 Uppsala, Sweden

Deadline for manuscript submissions:

closed (20 February 2021)

Message from the Guest Editor

Studies of equine genetics and genomics provide possibilities to track down existing diversity, risk of inbreeding, as well as discovery of mutations causing different traits and diseases. Since the release of the first equine genomic trace files in 2007, around 100 causative or possibly causative mutations of mendelian traits and disorders have been discovered in the horse. Still, there are numerous equine characteristics and disorders with an unknown genetic background. With the high-throughput genetic and genomic techniques available today, the research community has the possibility to also unravel regulatory or structural genomic variation, potentially causing complex and multivariate equine phenotypes. More knowledge about molecular genetic and/or genomic mutations and variations could assist horse breeders in how to use marker-assisted selection or genomic evaluation to produce highly-performing but still healthy and sustainable horses.



mdpi.com/si/44750

Special Issue



genes



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan

Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving 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?

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, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank: JCR - Q2 (*Genetics and Heredity*) / CiteScore - Q2 (*Genetics (clinical)*)

Contact Us

Genes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/genes
genes@mdpi.com
[X@Genes_MDPI](#)