



Horse Breeding and Genetics

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Deadline for manuscript
submissions:

closed (15 May 2020)

Message from the Guest Editors

Dear Colleague,

Little attention is generally paid to topics as horse genetic improvement and genomics, despite worldwide many horses breeds have been selected over time for traits like speed, gaits, jumping performances, strength, or for more conventional traits like morphology or temperament. Most breeds are small populations with high levels of inbreeding and homozygosis, requiring appropriate breeding management. Breeding decisions should include novel traits as fertility, longevity and health, as well as the implementation of genomic selection. New approaches including gene networking and “omics-science” could be of interest for analyzing breeds genetic diversity, or for a deep knowledge on gene functionality.

We hereby are glad to invite authors to submit original manuscripts addressing any topic of interest on horse breeding and genetics, including: genetic improvement of novel and traditional traits, genetic correlations and response to selection; genomic selection, genome wide association studies, pathway analyses on traits; genetic diversity, optimal contribution selection, characterization of horse genome variation, gene functionality.





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Message from the Editor-in-Chief

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