

Special Issue

The Use of Genomic Information in the Improvement of Beef Cattle Production

Message from the Guest Editors

Genomic selection is one example of the use of genomic information in the form of single-nucleotide polymorphisms (SNPs) to predict expected progeny differences (EPDs). This technology has shown an increase in the accuracy of EPDs for some traits. Genomic information has also contributed to the identification of recessive alleles, the detection of genetic variants associated with economically important traits, and the understanding of the underlying genetic mechanisms. Despite these benefits, the use of genomic information is still limited and suffers from several limitations.

The aim of this Special Issue is to contribute to the use of genomic information to improve the selection and mating decisions of beef cattle. Moreover, it will contribute to the identification of causative/functional variants and the understanding of the genetic mechanisms of economically important and complex traits in beef cattle. Contributions to the Special Issue may cover reports on genomic selection, variations linked to various phenotypes, the interaction of genetics and environment, and related topics.

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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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