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Genetics and Genomics of Pig Breeding

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Message from the Guest Editors

Due to its great application value, the selective breeding of pigs has been carried out since the beginning of the 20th century by identifying the genetic foundations for economic traits. The completion of multiple pig genome projects has constructed a comprehensive list of pig genes. Moreover, a large number of genes and loci have been discovered in pigs. However, years of extensive research have demonstrated that not many major genes or loci can be used for breeding. The genetic mechanisms and genomics of pigs are still the focus.

Therefore, this Special Issue will focus on the genetic mechanisms of economic traits, such as reproductive performance, growth rate, intestinal digestibility (feed to meat ratio), meat-producing performance, meat quality, disease resistance, and others, among different porcine varieties or strains.

In addition, mining new candidate genes and detecting the genetic loci for the economic traits will also be considered.

Finally, the application of the genes and loci in marker-assisted selection and the genome-wide selection of pigs will be of great concern.



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Special Issue



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Message from the Editor-in-Chief

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