

# Special Issue

## Advances in Pig Genetics and Breeding

### Message from the Guest Editors

The genetic improvement of pigs has rapidly progressed in recent decades. Nowadays, many economically relevant traits are being expanded as breeding objectives. In addition, there have been rapid developments in high-throughput genome and cell molecular biology methods, and the processes involved in the identification of genes related to important phenotypic traits and genetic markers for pig selection have been significantly enhanced, leading to the more accurate methods for use in the implementation of breeding programs. In addition, artificial intelligence is now being employed to identify relevant new phenotypes and to implement tools to effectively measure traits. For this Special Issue, articles addressing all aspects of pig genetics and phenotypes are welcome, especially with a focus on the quantitative genetics of new phenotypes, the use of artificial intelligence to link phenotypes, genomic selection, breeding programs, gene polymorphisms, quantitative trait locus mapping, the identification of the genetic regulatory mechanisms and causative mutations affecting economically relevant traits, and the exploitation of native pig genetic resources.

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### Guest Editors

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### Deadline for manuscript submissions

closed (25 December 2024)

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## Genes

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*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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