



Application of Genomic Technologies in Pig Genetics and Breeding

Guest Editors:

Dr. Ligang Wang

Institute of Animal Science,
Chinese Academy of Agricultural
Sciences, Beijing 100193, China

Dr. Hongbo Chen

School of Animal Science and
Nutritional Engineering, Wuhan
Polytechnic University, Wuhan
430023, China

Deadline for manuscript
submissions:

20 February 2025

Message from the Guest Editors

Genomic technologies have enabled pig breeders to make more informed decisions, improving the efficiency and effectiveness of breeding programs, by providing more precise and efficient methods for improving genetic traits. They help in breeding pigs that are more productive, healthier, and better adapted to their environment, ultimately contributing to the sustainability and profitability of the pork industry.

Therefore, we are pleased to invite contributors to submit original research concerning studies identifying genetic variations associated with economic traits. Particularly welcome are methods that use genetic information from a large number of markers across the genome to predict the genetic value of an individual, technologies like CRISPR-Cas9 that enable precise modification of the pig genome, and technologies that analyze the expression of genes and proteins, and so forth.

We aim to increase the knowledge around the genetic mechanisms underlying economic traits and genomic or AI breeding technologies, thus contributing to pig breeding. In this Special Issue, original research articles and reviews are welcome. We look forward to receiving your contributions.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture,
School of Life and Environmental
Sciences, The University of
Sydney, Sydney, NSW 2006,
Australia

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

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), PubAg, AGRIS, RePEc, and other databases.

Journal Rank: JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)

Contact Us

Agriculture Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/agriculture
agriculture@mdpi.com
X@AgricultureMdpi