

Special Issue

Conservation, Innovation, and Genetic Analysis of Pig Germplasm Resources

Message from the Guest Editors

The aim of this Special Issue is present current high-quality research on the conservation of indigenous pig breeds, genetic analysis of different adaptive traits including growth rate, meat quality, and disease resistance, innovative utilization of pig germplasm resources. With increasing challenges in biodiversity loss, understanding the genetic diversity, adaptive traits, and breeding potential of pig germplasm resources is crucial to develop pig industry. This special issue welcomes studies on multi-omics analyses, including genomics, transcriptomics, proteomics, metabolomics, epigenomics, and microbiomics, for characterizing pig genetic resources. This special issue also welcomes the application of biotechnology and information technology to study pig germplasm resources. The contributions of this special issue will support the swine research community in exploring the genetic dissection of complex traits, while advancing cryopreservation, reproductive biotechnologies, and genomic selection methods for pig industry in the future.

Guest Editors

Prof. Dr. Xiang Zhou

Key Laboratory of Swine Genetics and Breeding of Ministry of Agriculture, Huazhong Agricultural University, Wuhan 430070, China

Dr. Ting Gu

National Engineering Research Center for Breeding Swine Industry, South China Agricultural University, Guangzhou 510642, China

Deadline for manuscript submissions

closed (15 February 2026)



Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



mdpi.com/si/252875

Agriculture
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agriculture@mdpi.com

[mdpi.com/journal/
agriculture](https://mdpi.com/journal/agriculture)





Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



[mdpi.com/journal/
agriculture](https://mdpi.com/journal/agriculture)



About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

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

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

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)