

Special Issue

Advances in Veterinary Genetics and Genomics

Message from the Guest Editors

Veterinary genetics and genomics are rapidly evolving fields. This progress reflects a growing recognition that understanding the genome is key to improving animal health, welfare, and productivity. However, we are only beginning to appreciate the complexity and potential of applying genetic technologies in veterinary science. Recent advances in genomic tools, such as high-throughput sequencing, genome-wide association studies, and CRISPR-based editing, have opened new avenues for understanding hereditary diseases, improving selective breeding, and supporting wildlife conservation. In parallel, developments in epigenetics, transcriptomics, and metagenomics are adding layers of insight into gene regulation, host–pathogen interactions, and environmental adaptation in animals. Veterinary genomics is no longer limited to livestock and companion animals—it also plays a crucial role in biodiversity preservation and forensic investigations. In this Special Issue, we welcome original research, reviews, and methodological innovations that explore the broad applications of genetics and genomics in veterinary science. We look forward to your contributions.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

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?

Editor-in-Chief

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