

## Special Issue

# Advances in Animal Functional Genomics

### Message from the Guest Editor

Functional genomics has emerged as a cornerstone for deciphering gene-phenotype linkages in animals, driving breakthroughs in agriculture, conservation, and biomedical research. By integrating high-throughput sequencing, gene editing, and bioinformatics, this field illuminates how genetic variation shapes physiological traits, disease susceptibility, and evolutionary adaptation. We invite contributions that leverage these tools to advance our understanding of animal biology. This Special Issue aims to explore cutting-edge applications of functional genomics across livestock, wildlife, and model organisms. Aligning with the journal's focus on translational research, we seek studies that bridge molecular mechanisms to real-world outcomes, such as improved livestock resilience, wildlife conservation strategies, or novel disease models. We welcome original research, reviews, and methods papers. Topics may include CRISPR-based functional screens, epigenomic regulation of complex traits, host-microbiome interactions, and comparative genomics of adaptation. Interdisciplinary studies combining genomics with physiology, ecology, or bioinformatics are strongly encouraged.

### Guest Editor

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### Deadline for manuscript submissions

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## Biology

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### Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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