

Special Issue

Genomics and Proteomics in Animal Science: Development of Comprehensive Biomarkers as Indicators of Biological Processes and Physiological Health Status

Message from the Guest Editor

High-throughput omics technologies are powerful technologies that are often implemented in domestic animal species, allowing them to uncover regulatory genes and gene networks related to complex phenotypes, including livestock performance traits. Genomics and proteomic studies may also have an economic impact and prevent adverse health changes. Furthermore, particular biomarkers applied in diagnosing and treating disease can also be the comprehensive indicators for current animal health status. The Special Issue aims to present the latest work results on basic and applied research that can directly impact animal health and welfare, the economy of animal production, and what is lastly rising as the most crucial matter, the production of safe, healthy food for the consumer. Especially desirable are articles describing the implementation of modern molecular technologies in animal sciences to identify markers and biomarkers for monitoring biological processes and animal health status. We invite contributions of original research papers and review articles on domestic animals, especially in fields such as genomics, transcriptomics, proteomics, and epigenomics.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2021)



Animals

an Open Access Journal
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Impact Factor 2.7
CiteScore 5.2
Indexed in PubMed



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About the Journal

Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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