

Special Issue

Epigenetic Signatures in Domestic Animals

Message from the Guest Editors

This Special Issue focuses on the cutting-edge exploration of epigenetic signatures in domestic animals. Epigenetic marks—such as DNA methylation, histone modifications, and non-coding RNAs—play pivotal roles in regulating phenotypic traits critical to livestock production (e.g., growth, meat quality, and reproductive efficiency) and animal health (e.g., disease resistance and stress adaptation).

Topics of interest include, but are not limited to, the following:

Identification and characterization of epigenetic signatures associated with important traits in domestic animals.

Epigenetic regulation of key phenotypic traits and dynamic changes in epigenetic marks across domestic animal life stages.

Functional epigenomics approaches to elucidate the molecular mechanisms linking epigenetic signatures to trait variation in domestic animals.

Integration of epigenomics with multi-omics data to decode the epigenetic-genetic interplay in shaping complex traits of domestic animals.

We encourage researchers from diverse disciplines to contribute their expertise and insights to this Special Issue.

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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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