

Special Issue

Feed Additives for Farm Animals: Gut Microbiome, Metabolism, Neuroendocrine Regulation, and Product Quality

Message from the Guest Editors

Feed additives are increasingly used to support the health and performance of farm animals, while also meeting expectations for efficient and responsible production. Many of these additives act first in the gut by shaping the microbial community and its metabolites, strengthening barrier function, and modulating immune responses. These local effects can translate into broader changes in nutrient use, stress resilience, and endocrine signals that connect the intestine with the nervous system and peripheral organs, ultimately influencing growth, robustness, and the quality of animal-derived products. This Special Issue welcomes original research and reviews that clarify how feed additives, including probiotics, prebiotics, enzymes, phytochemicals, organic acids, minerals, and emerging bioactives, affect the gut microbiome, host metabolism, neuroendocrine regulation, and product quality across farm species. We encourage studies that link mechanisms with practical outcomes, as well as works that identify biomarkers and support evidence-based use of additives in modern feeding programs. We look forward to receiving your contributions.

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Deadline for manuscript submissions

30 November 2026



Animals

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 5.2
Indexed in PubMed



mdpi.com/si/272503

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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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