

Special Issue

Animal Nutritional Physiology: Effects of Feed Additives on Livestock Products

Message from the Guest Editors

Feed additives encompass various substances added to animal diets to promote growth, increase feed efficiency, and maintain animal health and welfare. These additives may include phytobiotics, enzymes, probiotics, prebiotics, organic acids, antioxidants, and other bioactive compounds, each exerting specific effects on the digestive, physiological, metabolic, and immune functions and the microbiota and gut health of animals. In addition to their effects on animal health and performance, feed additives have the potential to influence the quality indicators of animal-derived products, including meat, milk, and eggs. By various mechanisms of action, feed additives are considered a crucial element of strategies for reducing chemoprophylaxis in animal production (excluding coccidiostats and histomonostats, which are also classified as feed additives). Thus, using feed additives contributes to meeting consumer expectations for high-quality, nutritious, and safe food products, aligning with the concept of “One Health”. The goal of this Special Issue is to provide an up-to-date overview of the progress in current research on all aspects of feed additives.

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