Special Issue

Use of Antioxidants as Feed Additives to Enhance Farm Animal Production

Message from the Guest Editor

Intensive biochemical processes occurring in the bodies of highly productive animals result in a significant increase in oxygen demand. The consequence of these transformations is the production of significant amounts of free oxygen radicals (FOR) and other reactive oxygen species (ROS). Under homeostasis conditions, reactive oxygen species are constantly inactivated by antioxidants of both endogenous and exogenous origin. An increase in the production of free radicals, a decrease in the amount of antioxidants, and a decrease in the activity of enzymatic systems responsible for the removal of ROS mean that they are not effectively eliminated from the body. The balance is disturbed, and pro-oxidant processes outweigh antioxidant processes, which is called oxidative stress.

Guest Editor

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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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