



animals



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Potential Role of Antioxidants and Advanced Management Strategies to Improve Animal Production, Reproduction, Health, and Welfare

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Message from the Guest Editors

Oxidative stress is a state characterized by an altered modulation of free radicals that can cause many events that affect the health and welfare of animals, their production, and are often related to infertility. Animals have made up antioxidant defense systems composed of endogenous or exogenous compounds, which play a role in preventing the generation of free radicals, inactivating pro-oxidants, and limiting their deleterious effects by allowing the repair of oxidative damage. The manipulation of antioxidant mechanisms has been proposed as a strategy to protect health and well-being, ensure quality production, improve reproductive functions *in vivo*, and develop projects for use in assisted reproductive technologies (ART) *in vivo* and *in vitro*, in livestock and pets.

We encourage the submission regarding studies aimed at the use of natural antioxidants and modern practical approaches to reduce stress on farm animals and pets, which can counteract the deleterious effects, especially of the reactive oxygen species, to ensure health and welfare in animals and sustainable production capacities.



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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 (2023, ranks 10/80 (Q1) in 'Agriculture, Dairy & Animal Science'; 16/167 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.0.

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