

Special Issue

Redox Balance in Animal Physiology: Health and Welfare

Message from the Guest Editors

The redox balance is the basis of animal welfare and health. An imbalance towards the oxidative state, caused by a decrease in antioxidants' defenses or by an increase in oxidants, could have harmful effects, such as generating tumors, reproductive problems, and stressful conditions. Therefore, new tools to evaluate the redox balance in animal matrices would be of great interest to prevent damage and preserve animal health. The purpose of this Special Issue is to create a collection of useful methods for antioxidant and pro-oxidant assays. Manuscripts that include, but are not limited to, the following topics in different animal species and matrices will be accepted: monitor animal health and welfare correlated to redox balance parameters; validation of analytical methods for antioxidant and pro-oxidant parameters; monitoring of redox balance parameters after nutritional supplements are used in animal feed; alteration of redox balance parameters in pathological conditions or following the contact of an animal with drugs or environmental toxicants; assays of antioxidant and pro-oxidant concentrations; assays of reactive oxygen and nitrogen species (ROS and NOS).

Guest Editors

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Deadline for manuscript submissions

closed (29 February 2024)



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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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