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Management of Stress Impact on Domestic Animals Physiology and Welfare

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Message from the Guest Editors

Stress is a complex process of stressor(s) action(s) and organism's homeostatic reaction(s), with many aspects that still need to be elucidated. When a stressor stimulus persists the adapting mechanisms may not overpower it, compromising the animal's growth, productive and reproductive performance and immune system function, leading to increased susceptibility to diseases. Additionally, maternal stress during pregnancy can affect developmental programming and may alter the offspring's phenotype. Several biomarkers (biochemical, molecular, metabolic, endocrinological, immunological, redox status e.t.c.) have been used for evaluating the impact of stress on animals' physiology, performance and welfare, producing a variety of results.

This Special Issue aims to provide recent insights on common used and novel stress biomarkers (e.g., omics) for improving our knowledge of the complex pathways involved in stress response. The ultimate goal of this issue is to suggest preventive or therapeutic management practices for mitigating the harmful effects of stress on animal's physiology and welfare.

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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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