Special Issue

Heat Stress in Animal Oocytes: Impacts, Evaluation, and Alleviation

Message from the Guest Editor

Heat stress is the physiological response to the disruption of thermal balance caused by high-temperature environments, which affects normal follicular and oocyte development in mammals and leads to reductions in embryo production. Therefore, it is of great importance to have a deep understanding of the mechanisms underlying the effects of heat stress on oocytes and to explore strategies for mitigating or preventing its detrimental impacts on livestock animals. Knowing the effects of heat stress on the generation of reactive oxygen species, endocrine disruption, mitochondrial function, and gene expression in oocytes and follicles can result in the improvement of assisted reproductive techniques in various species.

Guest Editor

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Deadline for manuscript submissions

31 July 2025

Animals

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 4.9
Indexed in PubMed

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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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