



Advanced Technology in Animals Reproduction

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Message from the Guest Editor

Semen cryopreservation in animal species is a biotechnology in reproduction that is used to increase the diffusion and measurement of genetic progress, sustain the conservation of genetic biodiversity, and improve the management of artificial insemination. The cryopreservation protocols vary among species, because there are differences in sperm shape, volume, organelle size, and composition. The cryopreservation process causes numerous negative effects, including injuries to cell membranes and metabolic damages with devastating consequences for sperm survival. There is a clear need to standardize the entire freezing and thawing process in order to minimize variability in results. There are still more challenges than opportunities related to the implementation of sperm cryopreservation.

The scope of this Special Issue includes, but is not limited to, the following topics:

- Strategies and tools to improve semen cryopreservation;
- Sperm energy metabolism in cryopreservation;
- Implications of OMICS technologies (i.e., lipidomics, epigenomics, proteomics, and metabolomics) in reproductive function;
- Innovative dietary strategies to improve reproductive function.





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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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