

## Special Issue

# Recent Advances on the Role of Melatonin in Animal Reproduction

### Message from the Guest Editors

Melatonin is a pleiotropic molecule that regulates various processes. With respect to reproduction, melatonin is involved in follicular development, luteal function, early embryonic development in vivo and in vitro, spermatogenesis, semen quality, and pregnancy, among others. Furthermore, melatonin is a potent antioxidant with useful applications in several fields, due to its capacity to scavenge free radicals and enhance cellular endogenous antioxidant defenses. The Special Issue focuses on the following topics:

- Regulation of the reproductive seasonality;
- Effects of melatonin on sperm functionality;
- Strategies and tools to improve semen and oocyte quality;
- Use of -omics technologies in assessing the effect of melatonin on reproductive function;
- In vivo and in vitro data on melatonin effects on embryo development and quality;
- Cryopreservation of gametes and embryos;
- The impact of melatonin on assisted reproductive technologies.

We look forward to receiving your contributions.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 July 2023)



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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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### Editor-in-Chief

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