



## The Role of Melatonin in Animal Reproduction Using -Omic Technologies

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Deadline for manuscript  
submissions:

**closed (31 May 2024)**

### Message from the Guest Editors

Dear Colleagues,

We invite you to submit original research papers and review articles concerning different aspects of the role of melatonin in animal reproduction using -omic technologies in different animal species.

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 purpose of this Special Issue is to collect the latest scientific achievements that address the new advances of melatonin pathways in animal reproduction. Additionally, we aim to stimulate a discussion on applied reproduction in domestic and aquatic animals, focusing on various -omic technologies and their limitations to achieve a comprehensive understanding of the effects of melatonin on animal reproduction.

We look forward to receiving your contributions.





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## Editor-in-Chief

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## Message from the Editor-in-Chief

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