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# **Recent Advances on the Role of Melatonin in Animal Reproduction**

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# Message from the Guest Editors

Dear Colleagues,

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.

Dr. Serafeim Papadopoulos Dr. Rosaura Pérez-Pe *Guest Editors* 









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## **Editor-in-Chief**

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