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Title: Melatonin mitigates bisphenol A-induced estradiol production and proliferation by porcine ovarian granulosa cells in vitro

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**Running title:** Melatonin mitigates bisphenol A-induced dysfunction of porcine ovarian granulosa cells

Melatonin mitigates bisphenol A-induced estradiol production and proliferation by porcine ovarian granulosa cells in vitro

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### Highlights

- Melatonin reduces BPA-induced estradiol over-secretion in porcine granulosa cells.
- Melatonin reduces the BPA-induced increase in the Ki67-positive cell ratio.
- 3. Melatonin may mitigate female endocrine disorders caused by toxic chemicals.

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