

Special Issue

Circadian Clock and Reproduction

Message from the Guest Editor

The mammalian circadian clock integrates the hypothalamus and suprachiasmatic nucleus (SCN) and is regulated by environmental light/dark conditions (day and night).

The coordination between ovulation, fertilization, the peristaltic action of the fallopian tube, uterine contraction, and implantation is important. It has been reported that the circadian clock controls the cell division of cells, including stem cells in an appropriate timing. The rhythm of the clock genes play an important role in each timing. Optimal fertility also relies upon the exact timing of the surge of GnRH and LH secretion. Therefore, elucidation of the factors that modify circadian rhythms, especially in the reproductive organs and the hypothalamic–pituitary–gonadal axis (HPG axis), will provide insights into how to treat reproductive dysfunction. The main feature of this Special Issue is to provide an open source collection of significant work in the field of reproduction related to the circadian clock.

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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