## **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**

Dr. Masanori Ono

Department of Obstetrics and Gynecology, Tokyo Medical University, Tokyo, Japan

### Deadline for manuscript submissions

closed (31 July 2021)



# International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/46917

International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

mdpi.com/journal/ ijms





# International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





## Message from the Editor-in-Chief

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.

#### **Editor-in-Chief**

#### Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

#### **Author Benefits**

#### **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

