



Molecular Regulation in Female Reproduction

Guest Editor:

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Message from the Guest Editor

With the recent advances in molecular and cellular biology along with the incorporation of bioinformatics and systems biology, we are now able to gather deeper knowledge on the physiological mechanisms and pathophysiology of the female reproductive system—the ovary, uterus, cervix, and endometrium—at the cellular level (including MSC), and more in-depth at the level of protein, miRNA, and sRNA. This knowledge in fundamental science has facilitated exploring novel cellular and molecular therapies for subfertility and fertility regulation and new solutions in the management of pathophysiologic conditions such as PCOS, premature ovarian failure, ovulation disorders, fertilization failure, compromised embryo development, endometrial infertility, pregnancy-associated complications, adenomyosis, endometriosis, and gynecological malignancies.

This Special Issue on “Molecular Regulation in Female Reproduction” focuses on the collection of manuscripts and review articles on recent advances covering cellular and molecular sciences as well as translational medicine in the field of female reproduction.





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Message from the Editor-in-Chief

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