Special Issue

Hormonal Regulation of Female Reproduction

Message from the Guest Editors

Regulation of the functioning of the reproductive system is crucial both from the point of view of the individual and the maintenance of the species. Reproductive processes are controlled by the neurohormonal axis—hypothalamus-pituitary-ovaries—which in female mammals also affects the uterus. Moreover, it is now clear that fertility depends on the energy metabolism status. A negative energy balance and a decrease in body fat result in dysfunctions of the hypothalamic-pituitary-ovarian axis, which are the leading causes of infertility, ovulation and implantation disorders, and pregnancy loss. Understanding the complexity of the mechanisms that control the functioning of reproductive processes will enable the identification of new markers of female fertility/infertility and drugs to increase the reproductive success rate, and consequently, will have significant clinical benefits. The proposed Special Issue invites submissions of original research articles and reviews that will provide new insights into the hormonal regulation of female reproduction under different physiological and pathological conditions.

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