

Special Issue

Endocrine Regulation of Reproductive Tissues: From Molecular Mechanisms to Therapies

Message from the Guest Editor

Reproduction in animals is intricately regulated by endocrine signaling, which governs the development, function, and homeostasis of reproductive tissues. Hormones and their receptors coordinate essential processes such as gametogenesis, steroidogenesis, and reproductive cyclicity across diverse species. While balanced endocrine activity ensures fertility and reproductive success, disruptions due to genetic, epigenetic, or environmental factors can lead to disorders like infertility, endometriosis, and hormone-dependent cancers. Despite advances in understanding hormone-receptor interactions, the integration of systemic endocrine signals with tissue-specific mechanisms remains incompletely understood, particularly in non-model organisms. This Special Issue invites contributions exploring endocrine regulation in reproductive biology and welcomes studies on hormonal cross-talk with intracellular signaling and the impact of endocrine disruptors on reproductive health.

Guest Editor

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Deadline for manuscript submissions

25 February 2026



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/248618

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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