

## 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

Dr. Waldemar Grzegorzewski

Faculty of Biology, Nature Protection and Sustainable Development,  
University of Rzeszów, Rzeszów, Poland

### Deadline for manuscript submissions

25 September 2026



## Biomolecules

an Open Access Journal  
by MDPI

Impact Factor 4.8  
CiteScore 9.2  
Indexed in PubMed



[mdpi.com/si/248618](https://mdpi.com/si/248618)

*Biomolecules*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[biomolecules@mdpi.com](mailto:biomolecules@mdpi.com)

[mdpi.com/journal/  
biomolecules](https://mdpi.com/journal/biomolecules)





# Biomolecules

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.8  
CiteScore 9.2  
Indexed in PubMed



[mdpi.com/journal/  
biomolecules](https://mdpi.com/journal/biomolecules)



## About the Journal

### Message from the Editorial Board

*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.

---

### Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

---

### 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, MEDLINE, PMC, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

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