

## Special Issue

# The Molecular Life of Sperm: New Horizons in Male Infertility

### Message from the Guest Editors

Male infertility affects millions of individuals worldwide and remains an under-recognized contributor to reproductive failure. This Special Issue invites original research, reviews, and perspectives that explore the complex biology of sperm function and the molecular and genetic underpinnings of male infertility. We welcome submissions that cover a broad range of topics including, but not limited to, the following:

- Sperm development, maturation, and function.
- Cellular and molecular mechanisms regulating spermatogenesis.
- Sperm motility, capacitation, and acrosome reaction.
- Oxidative stress and sperm DNA damage.
- Epigenetics and transcriptomics in sperm biology.
- Genetic and genomic causes of male infertility.
- Emerging biomarkers and diagnostic tools.
- Functional assays and models for male fertility evaluation.
- Translational research and therapeutic strategies.

This Special Issue aims to bridge basic and clinical research, encouraging interdisciplinary approaches that advance our understanding of male reproductive health and inform better diagnostics and treatments. We look forward to receiving your contributions.

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### Guest Editors

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### Deadline for manuscript submissions

20 June 2026



## International Journal of Molecular Sciences

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Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



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Molecular Sciences*  
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### Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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.

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