

## Special Issue

# Reproductive Genetics and Epigenetics: Insights into Infertility Failures and Treatment Pathways

### Message from the Guest Editor

Infertility affects millions of individuals and couples worldwide, with genetic and epigenetic factors playing critical roles in reproductive failures and treatment outcomes. This Special Issue focuses on cutting-edge research and reviews exploring the genetic and epigenetic mechanisms underlying infertility, providing a deeper understanding of how these factors influence reproductive health and the success of assisted reproductive technologies (ART). It underscores the roles of genetic and epigenetic factors in processes such as gametogenesis, fertilization, pregnancy, embryonic development, etc. We welcome submissions on topics including genetic mutations, epigenetic modifications, inherited reproductive disorders, advances in ART, and epigenetic markers as diagnostic or therapeutic tools in fertility treatments. To bridge the gap between fundamental discoveries and clinical applications in reproductive medicine, this issue invites researchers to contribute original research, reviews, and case studies that explore the genetic and epigenetic underpinnings of infertility.

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### Guest Editor

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### Deadline for manuscript submissions

closed (25 February 2026)



## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

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