

Special Issue

Pregnancy-Related Complications: Molecular Pathogenesis and Therapeutic Strategies

Message from the Guest Editor

Pregnancy-related complications remain a major global health concern, affecting maternal and fetal outcomes and increasing the risk of long-term morbidity. Among the most common and clinically relevant conditions are hypertensive disorders, gestational diabetes, intrauterine growth restriction, preterm birth, placental insufficiency, infections during pregnancy, and amniotic fluid abnormalities. Despite advances in obstetric care, the molecular mechanisms underlying these complications are still not fully understood, limiting early diagnosis and effective interventions. This Special Issue aims to gather innovative research addressing the molecular pathogenesis of pregnancy complications, with particular interest in the role of placental dysfunction, maternal-fetal communication, and novel molecular mediators such as extracellular vesicles. Contributions exploring emerging therapeutic strategies, biomarker discovery, and translational studies that bridge basic research and clinical practice are especially welcome. By integrating interdisciplinary approaches and advanced technologies, this collection seeks to deepen our understanding and improve outcomes in complicated pregnancies.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) 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, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *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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