

Special Issue

Molecular and Cellular Research in Pregnancy-Related Complications

Message from the Guest Editor

Detection of at-risk pregnancies in early gestation is a challenging task for developing corrective and curative strategies. Recent studies highlight the role of systemic and placental oxidative stress as an essential factor in the etiology of early pregnancy losses. Trophoblast invasion under low-oxygen conditions and hypoxia-induced oxidative stress are important regulators of the physiological development of the placenta and embryo in early pregnancy. Nonetheless, when oxidative stress exceeds the normal physiological level in the maternal-fetal environment, orchestrated by blood cell damage, accelerated senescence, and early eryptosis, complications such as miscarriage, pre-eclampsia, and limited intrauterine development may occur. This Special Issue aims at expanding the current knowledge on the structural and behavioral imbalance of the peripheral and endometrial immune cells, red blood cells, trophoblasts, decidual cells, and stem cells in pregnancy-related complications. Experimental studies and reviews are all welcome for submission.

Guest Editor

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Deadline for manuscript submissions

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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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