



Molecular and Cellular Research in Pregnancy-Related Complications

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Regina Komsa-Penkova

Guest Editor





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Message from the Editor-in-Chief

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