

## Special Issue

# Molecular and Cellular Research in Pregnancy- Related Complications, 2nd Edition

### 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

Prof. Dr. Regina Komsa-Penkova  
Department of Biochemistry, Medical University-Pleven, 5800 Pleven,  
Bulgaria

### Deadline for manuscript submissions

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## International Journal of Molecular Sciences

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

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Prof. Dr. José L. Quiles  
Department of Physiology, Institute of Nutrition and Food Technology  
"Jose Mataix", Biomedical Research Center, University of Granada,  
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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