Special Issue

Recent Advances in Placental Pathophysiology

Message from the Guest Editor

Every year, around 20 % of 140 million births worldwide are from pathological pregnancies. These obstetrical complications have lifelong consequences for the mother (death, metabolic disorders) and the foetus (death, intrauterine growth restriction (IUGR), prematurity, and metabolic disorders in adulthood). The placenta is essential for implantation, enables an immune tolerance of the conceptus to avoid miscarriage, produces pregnancy hormones such as hCG at implantation to maintain pregnancy, participates in the remodelling of the uterine spiral arteries, is a biological barrier allowing the exchange of nutrients and gases between maternal and foetal blood, protects the foetus from toxics and pathogens, and might be involved in parturition. Sub-topics: - Interactions between trophoblasts and uterine immune cells -Trophoblastic cell differentiation, proliferation, invasion, fusion, apoptosis, necrosis and senescence -Remodelling of uterine spiral arteries - Genetic, Epigenetic (DOHAD: developmental origin of health and disease) - Pollutants: endocrine disruptors, xenobiotics, drugs - Infectious diseases - Maternal microbiota

Guest Editor

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Deadline for manuscript submissions

closed (1 March 2023)



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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.

Editor-in-Chief

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