

Special Issue

Study on Placenta and Pregnancy Screening

Message from the Guest Editor

One of the most important tasks of modern perinatology is to diagnose and prevent prenatal and postnatal complications in high-risk pregnancies soon. In pregnancies at risk, abnormal placental circulation is one of the main problems, which can lead to endogenous stress. This results in redistribution of the fetal circulation, which also affects the arterial circulation of the fetal kidney, causing prolonged hypoxaemia, hypovolaemia, hypotension, metabolic acidosis, leading to subsequent renal failure, and impaired renal perfusion. Research on placental and fetal organ vascularisation and volumetric changes *in vivo/in vitro* has become a major area of research in the work groups through the development of various diagnostic techniques. Conventional two-dimensional ultrasound and MRI are widely used to monitor the placenta during pregnancy. In prenatal diagnosis, examination of the fetus is of paramount importance, but it should be remembered that emphasis should also be placed on examination of the placenta itself, another member of the fetoplacental unit. In this Special Issue, we look forward to the results of research on these topics from all countries of the world.

Guest Editor

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Deadline for manuscript submissions

closed (27 August 2024)



Life

an Open Access Journal
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Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



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