

Special Issue

Insights in Pregnancy Immunobiology and the Maternal–Placental–Fetal Interaction in Health and Disease

Message from the Guest Editor

During pregnancy, maternal physiology undergoes profound changes to tolerate and nourish an antigenically foreign body for several months. Likewise, at the feto-maternal interface, adaptations to pregnancy include the regulation of the immune-cell population as well as immunoendocrine activity by placenta and fetal membranes. Supervised by Nieto and assisted by Dr. Andrea Olmos-Ortiz, this Special Issue aims to include the latest research and state-of-the-art reviews on the maternal–placental–fetal interaction, both under physiological conditions as well as under infectious and inflammatory settings (e.g., obesity, hyperglycemia, preeclampsia, pregnancy-induced hypertension). This Issue will also include papers addressing the underlying mechanisms of how the maternal organism and the placenta cope with invading pathogens while avoiding detrimental immune responses against the fetus. In addition, manuscripts related to sex-specific differences in the fetal–placental response to complications of pregnancy and sexually dimorphic placental characteristics will also be considered.

Guest Editor

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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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