

Special Issue

The New Molecular Mechanism of Preterm Birth

Message from the Guest Editor

Preterm birth (PTB) remains the biggest challenge in obstetrics, and a better understating of underlying cellular and molecular mechanisms is needed. Genetic alterations, environmental toxicants, or an internal infection may cause uterine distention, maternal-fetal oxidative stress, or cervical dysfunction, which trigger parturition to spontaneous preterm labor (PTL) or preterm premature rupture of membrane (PPROM). Advancement in molecular techniques such as metagenomics, microbiomics, and metabolomics opens a new horizon to elucidate the precise cellular and molecular signaling pathway of PTB. Microbiota dysbiosis might directly affect the production of microbiota-generated metabolites and lead to metabolic dysfunction in immune response and maternal-uterine or fetal cellular membranes (amnion and chorion), which stimulate the inflammatory cytokines (IL-6, TNF- α) signaling pathway and induce PTB.

This Special issue will discuss the molecular Mechanism of Preterm Birth.

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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