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## The Maternal Microbiome and Metabolome: Recent Advances

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### **Message from the Guest Editor**

Dear Colleagues,

During fetal life, the development and programming of the immune system, metabolism, and the central nervous system require interactions with the maternal microbiota. Live bacteria are believed to be rare in a healthy fetus. Thus, the prenatal host–microbe interactions are more likely to rely on circulating metabolites and other components derived from microbes, reaching the fetus through the placenta. Understanding these complex interactions is crucial for identifying potential biomarkers for disease prediction and for developing targeted interventions to improve maternal and neonatal outcomes. The goal of this Special Issue is to bring together cutting-edge research and reviews that explore the latest findings, innovative methodologies, and therapeutic implications of the maternal microbiome and metabolome. By delving into these topics, this Special Issue aims to provide a comprehensive overview of how these biological systems can be leveraged to enhance maternal and child health.

Dr. Giuseppina Campisciano

*Guest Editor*



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