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Comparison of next generation sequencing-based and Methylated DNA Immunoprecipitation-based approaches for fetal aneuploidy non-invasive prenatal testing

Georgia Christopoulou, Elisavet A Papageorgiou, Philippos C Patsalis, Voula Velissariou

#### Abstract

Over the past few years, many researchers have attempted to develop non-invasive prenatal testing methods in order to investigate the genetic status of the fetus. The aim is to avoid invasive procedures such as chorionic villus (CV) and amniotic fluid (AF) sampling, which result in a significant risk for

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immunoprecipitation real-time quantitative PCR-based approaches. ... fetal DNA; fetal-specific methylation; next generation sequencing; ... the maternal circulation compared with the limited amount of fetal DNA further complicate quantification.

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