

Metabolic Basis of Aberrant Fetal Growth

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Synopsis:

Increased maternal levels of inflammation and oxidative stress are causally related to aberrant fetal growth (over- and under-growth). The mechanisms underlying these conditions likely differ, but they are not well understood. We hypothesize that critical differences in a number of metabolic pathways in the mother and/or fetus account for these extreme outcomes. Therefore, the purpose of this study is to apply a comprehensive metabolomics approach to identify metabolites associated with inflammation and oxidative stress in the maternal-fetal unit where aberrant fetal growth is present.