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☆ Gestational duration (Liu, 2019)

Xueping Liu, et al.
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Inflammation Pregnancy



STUDY SUMMARY

Identification of a novel genetic variant that is associated with prolonged gestational duration (pregnancy).

STUDY DESCRIPTION

Gestation, the period of time that a baby develops in the womb, takes 40 weeks on average. Significant health complications for both baby and mother can occur if the birth is premature (preterm) or delayed (postterm). While previous studies have examined the influence of the mother's genetics on gestational duration, none have studied the contribution of the fetus' genetics. This genome-wide association study analyzed the genetic data of 93,980 babies of European ancestry and found one genetic variant correlated with postterm birth. This variant is located near multiple genes involved in inflammation, suggesting the immune system may play a role in determining the length of the gestational period.

DID YOU KNOW?

Taking a folic acid supplement during pregnancy can help support the growth and development of the fetus. It may also reduce the risk of birth defects of the brain, spine, and heart.

YOUR DETAILED RESULTS

The variants highlighted in green have **positive effect sizes** and increase your genetic predisposition to longer gestational duration. The variants highlighted in blue have **negative effect sizes** and decrease your genetic predisposition to longer gestational duration. Variants that are not highlighted are not found in your genome and do not affect your genetic predisposition to longer gestational duration. However, please note that genetic predispositions do not account for important non-genetic factors like lifestyle. Furthermore, the genetics of most traits has not been fully understood yet and many associations between traits and genetic variants remain unknown. For additional explanations, click on the column titles in the table below and visit our [Nebula Library tutorial](#).

| VARIANT [Ⓢ] | YOUR GENOTYPE [Ⓢ] | EFFECT SIZE [Ⓢ] | VARIANT FREQUENCY [Ⓢ] | SIGNIFICANCE [Ⓢ] |
|----------------------|----------------------------|--------------------------|--------------------------------|---------------------------|
| rs7694852_C | C / T | 0.10 (↑) | 53% | 4.64×10^{-8} |