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Here we investigate how depletion and selective reconstitution of the maternal gut microbiome influences fetal neurodevelopment in mice. Embryos from antibiotic-treated and germ-free dams exhibited reduced brain expression of genes related to axonogenesis, deficient thalamocortical axons and impaired outgrowth of thalamic axons in response to cell-extrinsic factors.

The maternal microbiome modulates fetal neurodevelopment ...

Maternal Influences on Fetal Neurodevelopment: Clinical and Research Aspects: Amazon.co.uk: Connors, Susan, Zimmerman, Andrew: Books

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The study of maternal influences on the intrauterine environment as they relate to the developing fetal brain promises to be an important

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Research Findings in this area may make it possible to delineate the prenatal mechanisms that affect ongoing cell programming in the fetus and lead to neurodevelopmental disorders.

Maternal Influences on Fetal Neurodevelopment | SpringerLink

Comprehensive and ground-breaking overview of maternal influences on fetal neurodevelopment Wide-ranging discussion of the gene-environment interplay on brain development within the intrauterine environment, covering such neurodevelopmental disorders as ADHD, autism, schizophrenia, bipolar disorder and obsessive-compulsive disorder Fosters better understanding and supports the call for further research into maternal and fetal mechanisms that lead to neurodevelopmental disorders

Maternal Influences on Fetal Neurodevelopment - Clinical ...

An adverse intra-uterine environment can affect fetal neurodevelopment either through direct effects and/or maternal signals, or indirectly as a consequence of preterm birth, which is independently associated with poor neurodevelopmental outcome . In this short review we will focus on maternal-fetal communication in the domains of nutrition, infection and stress, all of which can affect fetal neurodevelopment.

Maternal influences on fetal brain development: The role ...

Abstract: 'Dysbiosis' of the maternal gut microbiome, in response to challenges such as infection 1, altered diet 2 and stress 3 during pregnancy, has been increasingly associated with abnormalities in brain function and behaviour of the offspring 4. However, it is unclear whether the maternal gut microbiome influences neurodevelopment during critical prenatal periods and in the absence of ...

The maternal microbiome modulates fetal neurodevelopment ...

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Maternal Influences on Fetal Neurodevelopment: Clinical ...

3.1. 5-HT-ergic Maternal Genotype Influences the 5-HT System, Neurodevelopment, and Behavior in the Offspring As proposed previously by Gleason and colleagues, maternal genetic variations affecting the 5-HT system (hereafter called maternal 5-HT-ergic genotype) are able to influence fetal development [77].

Gestational Factors throughout Fetal Neurodevelopment: The

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Dierent elements altered because of maternal stress during pregnancy could side with alterations in dierent areas of the neurodevelopment, such as cognitive development, motor development, behaviour, temperament, memory and learning abilities; (4) Conclusions: Although maternal stress can have an in?uence on children's neurodevelopment,

Influence of Maternal Stress during Pregnancy on Child's ...

However, it is unclear whether the maternal gut microbiome influences neurodevelopment during critical prenatal periods and in the absence of environmental challenges. Here we investigate how...

The maternal microbiome modulates fetal neurodevelopment ...

Not much attention has been paid to the human second trimester, a period of active fetal brain development typified by neurogenesis and neuronal migration. Of concern though, is that these events are easily perturbed by environmental and pharmacological influences.

Maternal anesthesia and fetal neurodevelopment - ScienceDirect

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An adverse maternal hormonal environment during pregnancy can be associated with abnormal brain growth. Subtle changes in fetal brain development have been observed even for maternal hormone levels within the currently accepted physiologic ranges. In this review, we provide an update of the research data on maternal hormonal impact on fetal neurodevelopment, giving particular emphasis to thyroid hormones and glucocorticoids.

Maternal hormonal milieu influence on fetal brain development

Early life factors that influence health and development of individuals born extremely preterm include prenatal factors such as maternal BMI, placental microorganisms, fetal growth restrictions, and lower maternal socioeconomic status. 101,120,121,189–192 The body of evidence reviewed here suggests at least two broad causal pathways between early life predictors and childhood outcomes. These ...

Placental programming, perinatal inflammation, and ...

Prenatal inflammation, malnutrition, and maternal psychological distress contribute significantly to both fetal growth restriction and preterm birth. 81 Neurodevelopmental impairments are prevalent among infants affected by prematurity, LBW, and IUGR, including cognitive impairments and psychiatric dysfunction. 82 In a recent prospective, longitudinal evaluation, very preterm children were 3 times more likely to meet criteria for any psychiatric disorder compared with their term counterparts ...

Neurodevelopment: The Impact of Nutrition and Inflammation

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Recent studies suggest that fetal exposure to maternal obesity is related to poor neurodevelopmental outcomes in childhood. However, limited data have been collected on the fetal neurodevelopment v Potential mechanisms by which maternal adiposity influences the fetal ANS. 24 231 Obesity induces insulin resistance and

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