

Influenza vaccination during early pregnancy contributes to neurogenesis and behavioral function in offspring

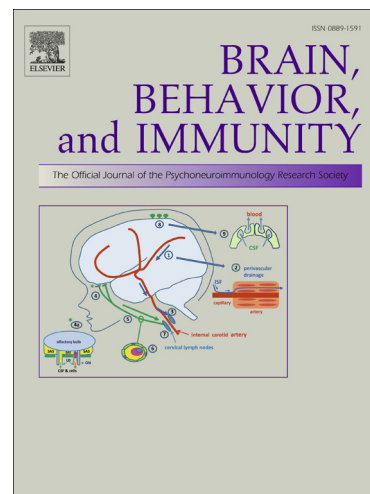
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Influenza vaccination during early pregnancy contributes to neurogenesis and behavioral function in offspring

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Highlights

1. Influenza vaccination during early pregnancy promotes postnatal brain development.
2. Influenza vaccination during early pregnancy contributes to behavioral function.
3. A(H1N1) influenza vaccination was capable of blocking LPS-induced neuroinflammation and cognitive impairment.

Keywords: hippocampus; cytokine; LPS; growth factor; toll-like receptor

ABSTRACT

Prenatal influenza virus infection has been associated with an increased risk of schizophrenia. Thus, inactivated flu vaccines are widely recommended for pregnant women. In a mouse model of pregnancy, immune activation via exposure to viruses or lipopolysaccharide (LPS)

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