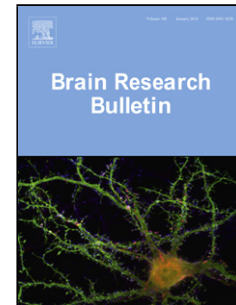


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Transcriptomic Analysis Reveals Oxidative Phosphorylation Activation in an Adolescent Social Isolation Rat Model

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Highlight:

- Adolescent isolation increased anxiety-like behavior and disrupted PPI of adult rats.
- Adolescent isolation induced significant alterations of 942 genes in PFC.
- Those 942 DEGs were enriched in three neurological disorders related pathways.
- Those 942 DEGs were enriched in oxidative phosphorylation pathway.

Abstract

Complex interactions between genetic and environmental factors exert a sustained influence on the pathogenesis of schizophrenia (SCZ). Adolescent social isolation is regarded as a typical paradigm for SCZ. However, the underlying pathological mechanisms are not fully understood. In this study, adolescent Sprague-Dawley (SD) rats were placed in isolation rearing (IR) or social rearing (SR) conditions

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