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ACCEPTED MANUSCRIPT

Integrated structural and expression analysis implicate specific synaptic pathway

in major depressive disorder

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Numerous robust and replicable genetic and imaging studies have implicated structural and functional networks in the development of psychiatric disorders.

Genetic studies have identified dozens of psychiatric susceptibility genes that raise a critical question: do genes enrich in specific brain regions and specific pathways influence phenotype? Using shared data from a large body of psychiatric research and advanced statistical analysis tools, available data was analyzed to identify possible gene networks involved in neural development of psychiatric disorders. According to the large-scale, genome-wide association study (GWAS) meta-analysis of 30,717 persons from 50 cohorts (Hibar et al. 2015) from the Enhancing Neuroimaging Genetics Through Meta-Analysis (ENIGMA), common variants influence human

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