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Metabolical, genetical and immunological aspects

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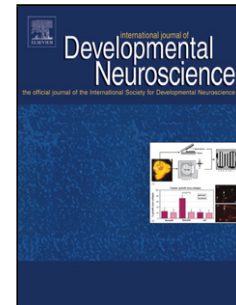
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Hemoglobins emerging roles in mental disorders. Metabolical, genetical and immunological aspects

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Highlights

- **Hemoglobin (Hb) expression in the central nervous system is recently shown**
- **Cooccurrences of bipolar disorder and tic disorders with β - or α -thalassemia trait or erythrocytosis were reported**
- **Changes in circulating minor Hbs were found in psychiatric disease**
- **Hbs may associate with psychiatric diseases due to their roles in neural metabolism**
- **Hbs may associate with psychiatric diseases due to the proximity of their gene loci to important genes in psychiatric disease-vulnerability.**
- **β -globin genes reside at 11p15.5 close to tyrosine hydroxylase, dopamine receptor DRD4 and Brain Derived Neurotrophic Factor**
- **α -globin genes reside at 16p13.3 which associates with bipolar disorder, tic disorders, ATR-16 Syndrome and Rubinstein Taybi Syndrome**

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