

## FKBP5

Hirakawa et al genotyped 112 healthy controls with respect to 6 SNPs (rs) of FKBP5. We examined the Beck Depression Inventory and the State (STAI-S) and Trait (STAI-T) versions of the Spielberger Anxiety Inventory and the Profile of Mood States (POMS) to evaluate mood. The right amygdala was larger in subjects with the minor allele (C) of rs3800373 and rs992105 and the minor allele (T) of rs1360780. The right middle orbitofrontal region in those with the minor allele (C) of rs3800373 and the right inferior orbitofrontal region in those with the minor allele (T) of rs9470080 was larger. Both the amygdala volumes were associated significantly with FKBP5 SNPs. We found significant relationships between factors in POMS and the right and left amygdala and left insula. Our results suggest that FKBP5 SNPs are associated with the alternations of volumes in right amygdala and the right middle and inferior orbitofrontal region. Genetic variants of FKBP5 may be associated with depressive and anxiety state via differential effects on amygdala and orbitofrontal region <sup>1)</sup>.

<sup>1)</sup>

Hirakawa H, Akiyoshi J, Muronaga M, Tanaka Y, Ishitobi Y, Inoue A, Oshita H, Aizawa S, Masuda K, Higuma H, Kanehisa M, Ninomiya T, Kawano Y. FKBP5 is associated with amygdala volume in the human brain and mood state: A voxel-based morphometry (VBM) study. *Int J Psychiatry Clin Pract*. 2016 Mar 16:1-10. [Epub ahead of print] PubMed PMID: 26982819.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

<https://neurosurgerywiki.com/wiki/doku.php?id=fkbp5>

Last update: **2024/06/07 03:00**

