

A GRM7 SNP is associated with language decoding in children

Hughes-Berheim et al., Scientific Studies of Reading Conference (SSSR) 2025

References

1. Fisher, N. M., Gould, R. W., Gogliotti, R. G., McDonald, A. J., Badivuku, H., Chennareddy, S., Buch, A. B., Moore, A. M., Jenkins, M. T., Robb, W. H., Lindsley, C. W., Jones, C. K., Conn, P. J., & Niswender, C. M. (2020). Phenotypic profiling of mGlu7 knockout mice reveals new implications for neurodevelopmental disorders. *Genes, Brain and Behavior*, 19(7), e12654. <https://doi.org/10.1111/gbb.12654>
2. Niswender, C. M., & Conn, P. J. (2010). Metabotropic Glutamate Receptors: Physiology, Pharmacology, and Disease. *Annual Review of Pharmacology and Toxicology*, 50(Volume 50, 2010), 295–322. <https://doi.org/10.1146/annurev.pharmtox.011008.145533>
3. Noroozi, R., Taheri, M., Movafagh, A., Mirfakhraie, R., Solgi, G., Sayad, A., Mazdeh, M., & Darvish, H. (2016). Glutamate receptor, metabotropic 7 (GRM7) gene variations and susceptibility to autism: A case–control study. *Autism Research*, 9(11), 1161–1168. <https://doi.org/10.1002/aur.1640>
4. Noroozi, R., Taheri, M., Omrani, M. D., & Ghafouri-Fard, S. (2019). Glutamate receptor metabotropic 7 (GRM7) gene polymorphisms in mood disorders and attention deficit hyperactive disorder. *Neurochemistry International*, 129, 104483. <https://doi.org/10.1016/j.neuint.2019.104483>
5. Masugi, M., Yokoi, M., Shigemoto, R., Muguruma, K., Watanabe, Y., Sansig, G., Putten, H. van der, & Nakanishi, S. (1999). Metabotropic Glutamate Receptor Subtype 7 Ablation Causes Deficit in Fear Response and Conditioned Taste Aversion. *Journal of Neuroscience*, 19(3), 955–963. <https://doi.org/10.1523/JNEUROSCI.19-03-00955.1999>
6. Bushell, T. J., Sansig, G., Collett, V. J., van der Putten, H., & Collingridge, G. L. (2002). Altered Short-Term Synaptic Plasticity in Mice Lacking the Metabotropic Glutamate Receptor mGlu7. *The Scientific World Journal*, 2(1), 176075. <https://doi.org/10.1100/tsw.2002.146>
7. Hölscher, C., Schmid, S., Pilz, P. K. D., Sansig, G., van der Putten, H., & Plappert, C. F. (2004). Lack of the metabotropic glutamate receptor subtype 7 selectively impairs short-term working memory but not long-term memory. *Behavioural Brain Research*, 154(2), 473–481. <https://doi.org/10.1016/j.bbr.2004.03.015>
8. Hölscher, C., Schmid, S., Pilz, P. K. D., Sansig, G., Putten, H. van der, & Plappert, C. F. (2005). Lack of the metabotropic glutamate receptor subtype 7 selectively modulates Theta rhythm and working memory. *Learning & Memory*, 12(5), 450–455. <https://doi.org/10.1101/lm.98305>