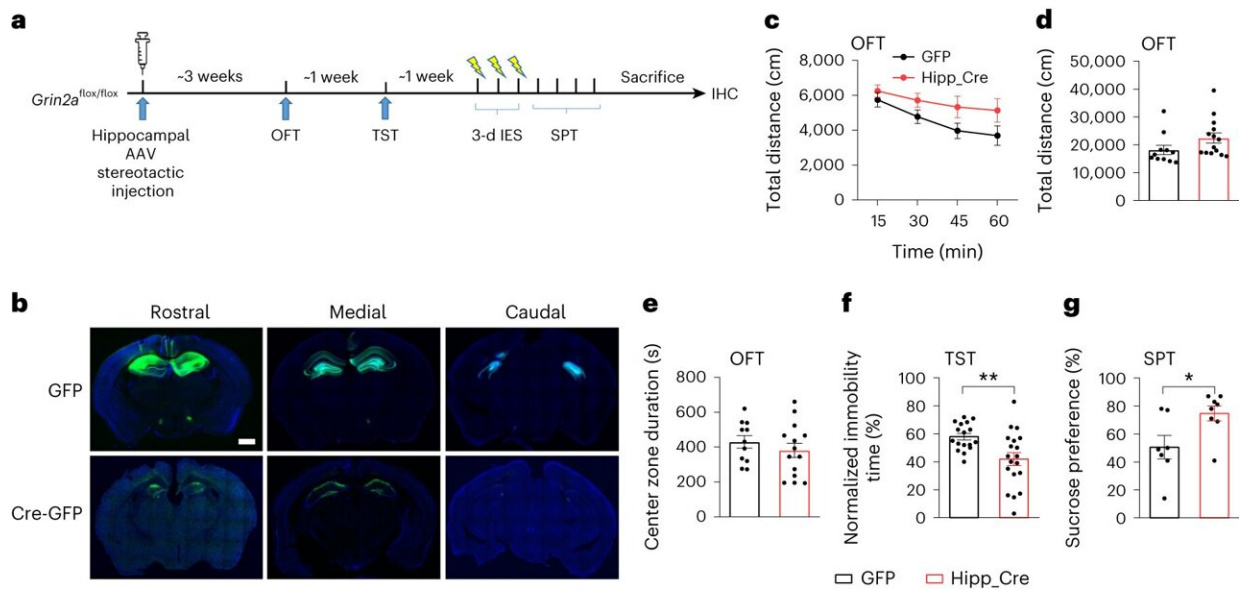


Unveiling the mechanism underlying ketamine's rapid antidepressant effects

September 19 2023, by Zhang Nannan



KD of hippocampal GluN2A promoted antidepressant-like behaviors. **a**, Experimental paradigm of KD of hippocampal GluN2A. **b**, Representative images showing expression of GFP or Cre-GFP by AAV in the hippocampi of *Grin2a*^{flox/flox} mice. Scale bar, 1 mm. GFP, green; NeuN, blue. **c–g**, Evaluation of mice for which hippocampal GluN2A was specific for KD (Hipp_Cre) or their controls (GFP) with the OFT (**c–e**, travel distance in every 15 min (**c**), total travel distance in 1 h (**d**) and time spent in the center zone (**e**)), TSTs (**f**, $P = 0.0056$) or the SPT (**g**, $P = 0.027$) (OFT: GFP $n = 11$, Hipp_Cre $n = 14$; TSTs: GFP $n = 17$, Hipp_Cre $n = 19$; SPT: GFP $n = 7$, Hipp_Cre $n = 8$). Error bars show s.e.m. Two-way ANOVA (**c**) or Student's *t*-test (two tailed) (**d–g**) was used. * P

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