Supplementary data

Quercetin reduces cortical GABAergic transmission and alleviates MK-801-induced hyperactivity

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The PDF file includes:

Supplementary Fig. 1. Effects of different doses of quercetin on MK-801-induced locomotor hyperactivity in mice.

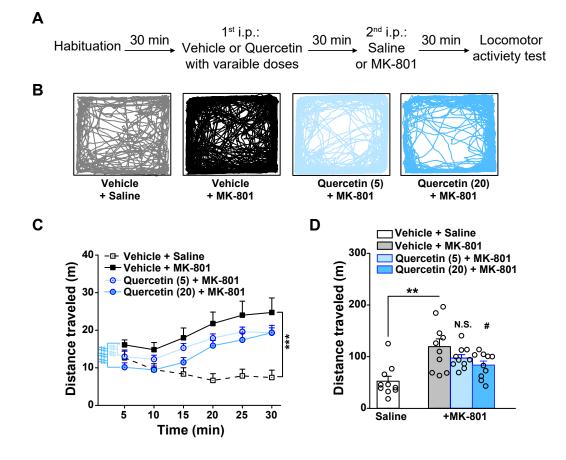
Supplementary Fig. 2. Effects of the combined treatment of quercetin and PTX on MK-801-induced locomotor hyperactivity in mice.

Supplementary Figure legends

Supplementary Fig. 1. Effects of different doses of quercetin on MK-801-induced locomotor hyperactivity in mice. (**A**) Behavioral protocol. (**B**) Sample locomotion traces of mice with vehicle- or quercetin (5 or 20 mg/10 ml per kg)-treatment (i.p.) and then following injection (i.p.) with saline or MK-801 (0.2 mg/10 ml per kg) in addition to a 30 min test session in the open field. (**C**) The total distance of mice during each 5-min interval. n = 10 for each group. ***p < 0.001, saline vs. MK-801; ##p < 0.01, ###p < 0.001, vehicle vs. quercetin, two way repeated-measures ANOVA. (**D**) The total distance in the 30-min session of mice followed by saline or MK-801 injection. n = 10 for each group. **p < 0.01, saline vs. MK-801; N.S., not significant difference, #p < 0.05, vehicle vs. quercetin, unpaired Student's *t*-test.

Supplementary Fig. 2. Effects of the combined treatment of quercetin and PTX on MK-801-induced locomotor hyperactivity in mice. (**A**) Behavioral protocol. (**B**) Sample locomotion traces of mice with PTX (1 mg/10 ml per kg) alone or plus quercetin (50 mg/10 ml per kg)-treatment (i.p.) and then following injection (i.p.) with saline or MK-801 (0.2 mg/10 ml per kg) in addition to a 30 min test session in the open field. (**C**) The total distance of mice during each 5-min interval. n = 10 for each group. ****p* < 0.001, saline *vs.* MK-801; ###*p* < 0.001, vehicle *vs.* quercetin, two way repeated-measures ANOVA. (**D**) The total distance in the 30-min session of mice followed by saline or MK-801 injection. n = 10 for each group. ***p* < 0.01, saline *vs.* MK-801 ml per total distance in the 30-min session of mice followed by saline or MK-801 ml per total distance n = 10 for each group. ***p* < 0.01, saline *vs.* MK-801 ml per total distance in the 30-min session of mice followed by saline or MK-801 ml per total n = 10 for each group. ***p* < 0.01, saline *vs.* MK-801 ml per total distance in the 30-min session of mice followed by saline or MK-801 ml per total distance in the 30-min session of mice followed by saline or MK-801 ml per total distance in the 30-min session of mice followed by saline or MK-801 ml per total distance in the 30-min session of mice followed by saline or MK-801 ml per total distance in the 30-min session of mice followed by saline or MK-801 ml per total distance in the 30-min session of mice followed by saline or MK-801 ml per total distance in the 30-min session of mice followed by saline or MK-801 ml per total distance in the 30-min session of mice followed by saline or MK-801 ml per total distance ml per t

Supplementary Figure 1



Supplementary Figure 2

