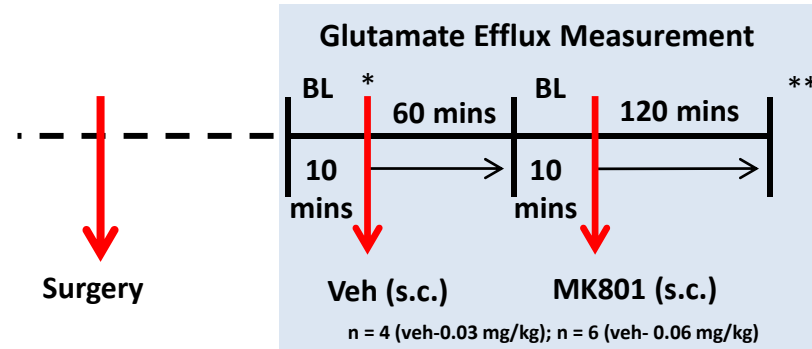


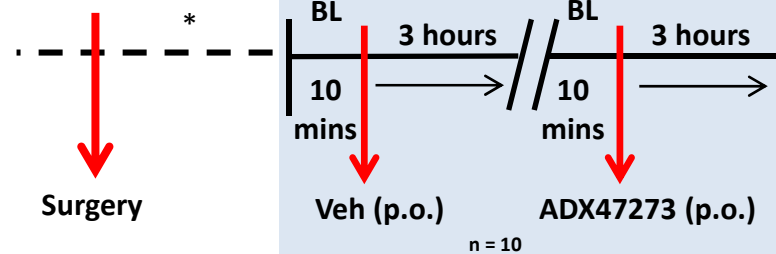
Supplementary Figure 1.

Exp. 1: Effect of MK801 on glutamate efflux



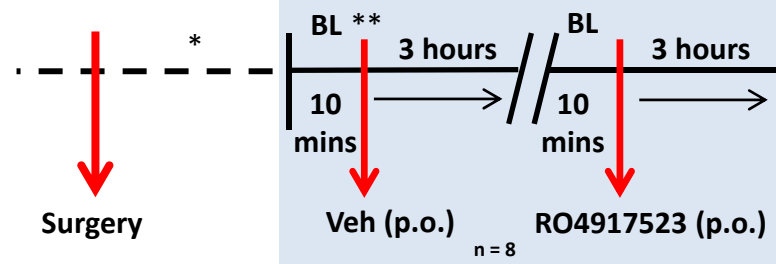
\* 2 animals excluded (TF) \*\* 2 animals excluded (PP)

Exp. 2i: Effects of ADX47273 on glutamate efflux:



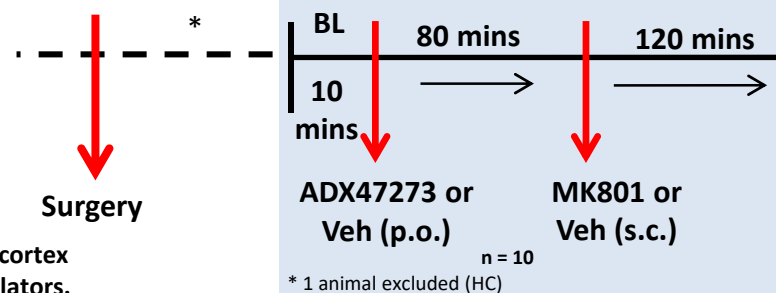
\* 1 animal excluded (HC)

Exp. 2ii: Effects of RO4917523 on glutamate efflux:



\* 2 animals excluded (HC) \*\* 1 animal excluded (TF)

Exp. 3: Interactive effects of MK801 and ADX47273 on glutamate efflux



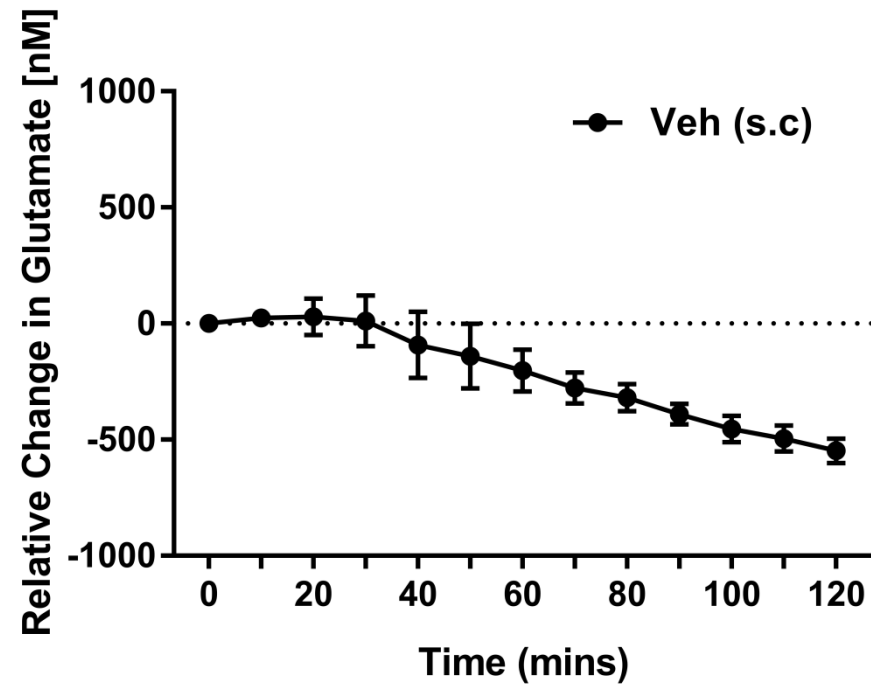
\* 1 animal excluded (HC)

**Bidirectional variation in glutamate efflux in the medial prefrontal cortex induced by selective positive and negative allosteric mGluR5 modulators.**

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Schematic diagram illustrating the experimental timeline for each experiment; n numbers represent the total number of rats used in each experiment (i.e. before exclusion); exclusion reason included: *TF*, technical fault; *PP*, incorrect probe placement; *HC*, lost head cap.

Supplementary Figure 2.



Effect of vehicle treatment on glutamate efflux in the mPFC. Rats received vehicle (s.c) 80 minutes into experiment 3 (n = 10 rats). Data points represent mean  $\pm$  SEM.