



Contents lists available at SciVerse ScienceDirect

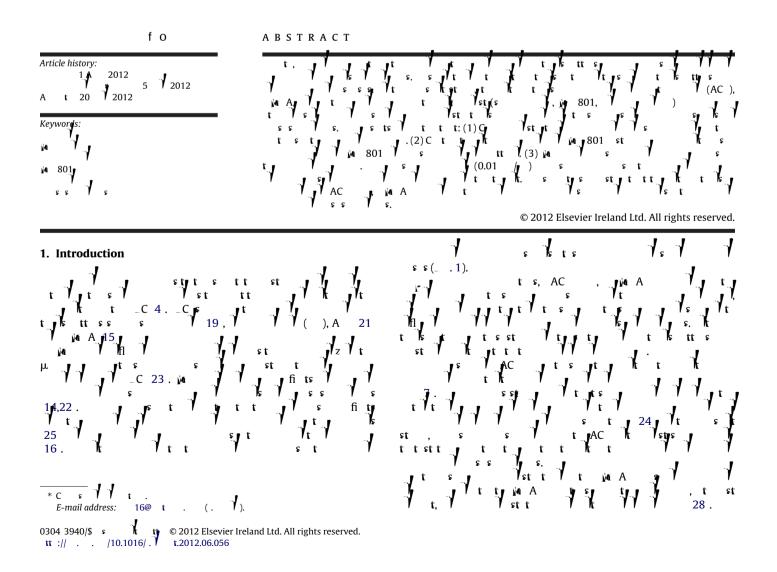
# Neuroscience Letters

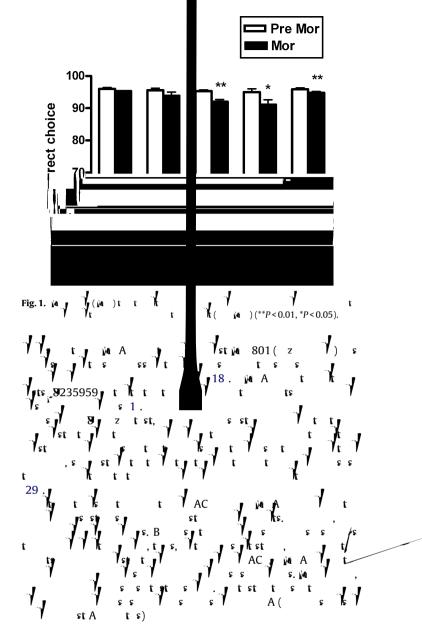


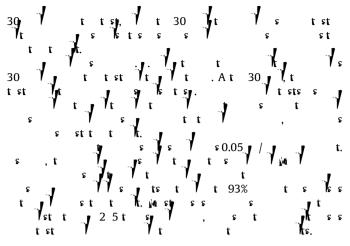
journal homepage: www.elsevier.com/locate/neulet



Laboratory of Primate Neurosciences, Kunming Institute of Zoology, Chinese Academy of Sciences, Kunming, Yunnan 650223, PR China Neuroscience Unit, Institute of Biomedicine/Physiology, University of Helsinki, Helsinki, Finland Department of Psychology, Peking University, Beijing 100871, PR





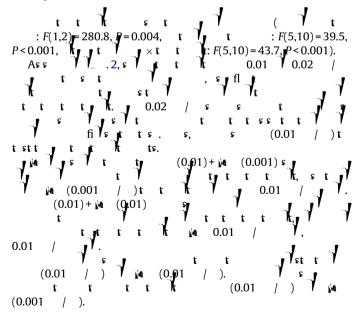


2.5. Statistical analysis



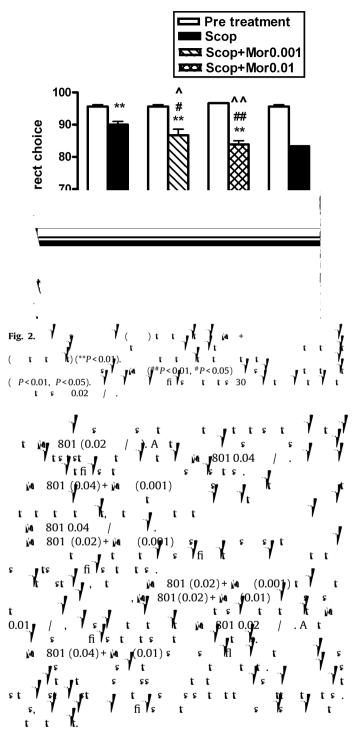
### 3. Results

3.1. Effects of co-administration of morphine (Mor) and scopolamine (Scop) on spatial working memory in rhesus monkeys

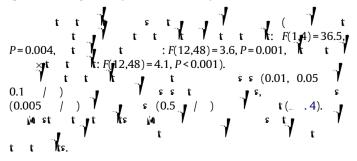


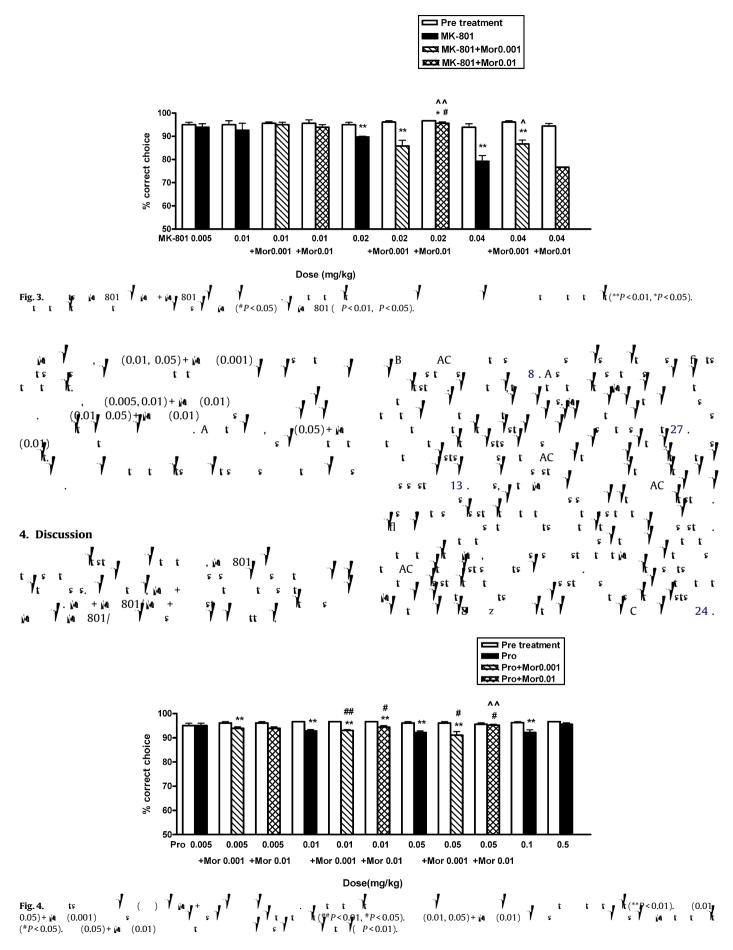
# 3.2. Effects of co-administration of Mor and MK-801 on spatial working memory in rhesus monkeys

1 t ( t 1 : F(11,22) = 25.3, : F(1,2) = 22.3, P = 0.04,t t h: F(11,22) = 17.8, P<0.001). P<0.001, k yt t t M 801 (0.02 3 🛯 sttsl t t j k 0.04 ۶ t 801 t t t t M 55 0.005 0.01 t۶.



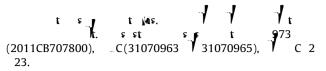
3.3. Effects of co-administration of Mor and propranolol (Pro) on spatial working memory in rhesus monkeys





MA K В t Mi s ttjt 801 s t ۶, kst htt s st s 26 s 20. 🚽 t t va + var 801 t t s ∼∕<sup>t</sup>∽{ t s s t V M 801 tt l t y y t 0.001 / , t lst sty,s Ma\_j801 M 801 st \$ \$ s VM 801 t st, ş k str 0.01 / ,t s tt 5**j**. ss MA Tsts t ۶t s fit s st t t t t s t t t fi t M \_ t ٤.,] ۶Jt ş t M (0.001 / ) t۶ 55 Ma 801 t t t lst t t 55 fi Is s t t s t t 0.04 / , 1 s M (0.01 / ) t st t ĥ h t Ma A t t  $\gamma_t \gamma_t^{h} t$ t t t۶ t t 10. t s\_ 1t Βt Bt **/** t \_C 12. ł ۶  $\begin{array}{ccc}t & t \\ & 6 \\ s & t\end{array} \begin{array}{c}t \\ fi \\ fi \\ s \\ s\end{array}$ t t t t t tk st V ł s t t st 5 17. t My t I t t 4. st J M sts  $\gamma_t^t$ t t M t t \$ \$ Ts stst t ts t k ts s t ٤, t tj t 2. -1<sup>25</sup> / 1 t t tt نې <sup>ب</sup>ار \$ 15 t tt t 1 С nds, st, t l s 9 t  $\eta_{t}$ lst t -↓<sup>t</sup>s  $\mathbf{A}$ 1 ş t t s 🕺 0.01 t (0.05 / ] ), 1 t t l ۶ t ł \$ \$ t tt h  $\begin{array}{cccc} ss & t & ts & t \\ t & t & t & t \\ \end{array}$ 1 t t۶ s tst, Jsti •tJsst Ĭs t tt ts t\_J ۶. s s l l l K, t t s t s J t le tt s, s s tk t۶ 55

#### Acknowledgments



## References

