

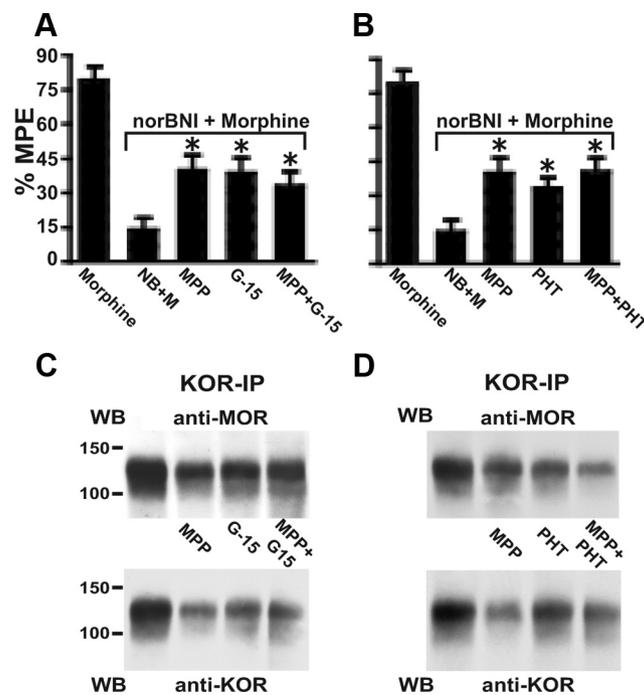
## Corrections

### Correction: Lima et al., Gamma Responses Correlate with Temporal Expectation in Monkey Primary Visual Cortex

In the article “Gamma Responses Correlate with Temporal Expectation in Monkey Primary Visual Cortex” by Bruss Lima, Wolf Singer, and Sergio Neuenschwander, which appeared on pages 15919–15931 of the November 2, 2011 issue, the E-mail address of the corresponding author was incorrect by one character. The correct E-mail address is neuenschwander@neuro.ufrn.br.

### Correction: Liu et al., Spinal Synthesis of Estrogen and Concomitant Signaling by Membrane Estrogen Receptors Regulate Spinal $\kappa$ - and $\mu$ -Opioid Receptor Heterodimerization and Female-Specific Spinal Morphine Antinociception

In the article “Spinal Synthesis of Estrogen and Concomitant Signaling by Membrane Estrogen Receptors Regulate Spinal  $\kappa$ - and  $\mu$ -Opioid Receptor Heterodimerization and Female-Specific Spinal Morphine Antinociception” by Nai-Jiang Liu, Sumita Chakrabarti, Stephen Schnell, Martin Wessendorf, and Alan R. Gintzler, which appeared on pages 11836–11845 of the August 17, 2011 issue, the authors regret an error in the original Figure 3. In Figure 3D, bottom right panel, the original representative Western blot was incorrect. This error (and its correction) does not affect data interpretation or conclusions. The authors have replaced the wrong blot with the correct one. The corrected Figure 3 and the original legend are provided below.



**Figure 3.** Concurrent but not additive activities of ER $\alpha$ , ER $\beta$ , and GPR30 are required for the female-specific KOR-dependent spinal morphine antinociception and elevated spinal levels of heterodimeric KOR/MOR during proestrus. **A, B**, Intrathecal morphine (5  $\mu$ g) was administered together with 1 pmol of MPP, 10 pmol of G-15, 15 pmol of PHTPP (PHT) or combinations thereof (MPP + G-15; MPP + PHTPP) to proestrus rats that had been pretreated overnight with intrathecal nor-BNI (26 nmol). TFL was determined 30 min after morphine treatment. Data show peak effect of drugs expressed as %MPE. **C, D**, Membranes obtained from spinal cord of proestrus rats that had been intrathecally treated for 30 min with vehicle (DMSO), one of two ER-type-selective blockers, or concomitantly with both were immunoprecipitated using anti-KOR antibodies. Immunoprecipitates were processed and Western blotted (WB) for KOR/MOR in parallel using anti-MOR and anti-KOR antibodies. Individual blockade of ER $\alpha$ , ER $\beta$ , or GPR30 partially restored spinal morphine antinociception despite nor-BNI pretreatment and partially reduced the levels of heterodimeric KOR/MOR. However, effects of MPP + G-15 or MPP + PHTPP on both measures were not significantly different from that which resulted from their individual application. \* $p < 0.05$  for comparison between antinociception resulting from morphine + nor-BNI versus morphine + nor-BNI + ER type-selective antagonists. NB, nor-BNI; M, morphine.