

Erratum

In the article "Cocaine Enhances NMDA Receptor-Mediated Currents in Ventral Tegmental Area Cells via Dopamine D₅ Receptor-Dependent Redistribution of NMDA Receptors," by Björn Schilström, Rami Yaka, Emanuela Argilli, Neesha Suvarna, Johanna Schumann, Billy T. Chen, Melissa Carman, Vineeta Singh, William S. Mailliard, Dorit Ron, and Antonello Bonci, which appeared on pages 8549–8558 of the August 16, 2006 issue, the Figure 5 that printed was not the final version of the figure. The corrected Figure 5 and legend are printed in this issue.

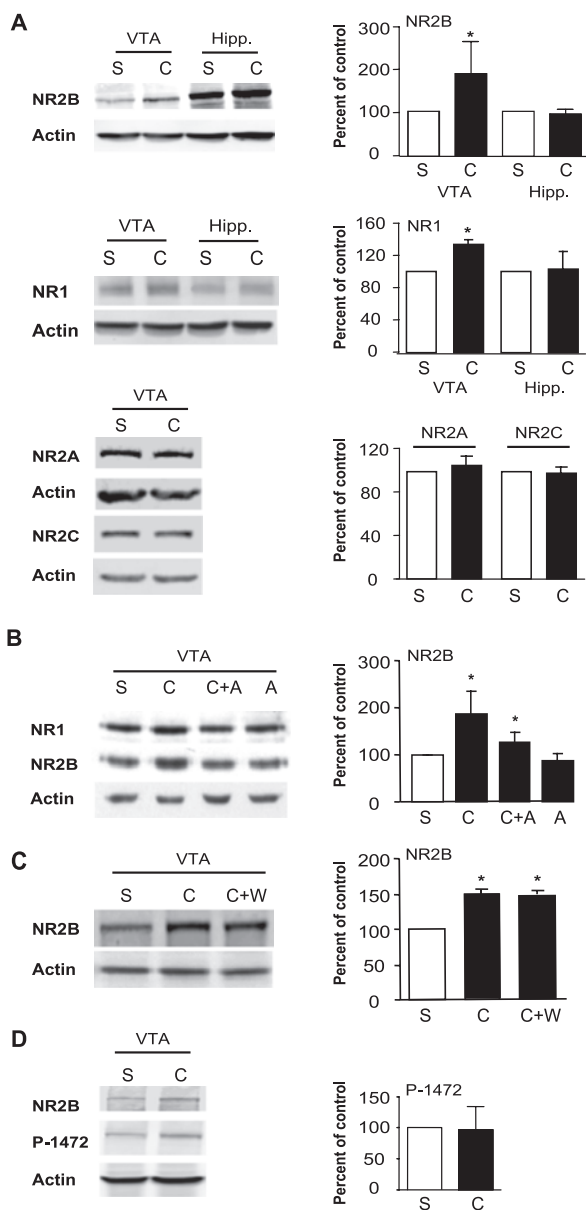


Figure 5. Acute exposure to cocaine induces an increase in NR1 and NR2B subunit immunoreactivity in the VTA. **A**, VTA and hippocampal slices (Hipp.) were incubated without [saline (S)] or with 1 μ M cocaine (C) for 10 min. After treatment, slices were homogenized, and samples (25 μ g) were resolved by SDS-PAGE. The levels of NR2B (top), NR1 (middle), and NR2A and NR2C (bottom) were detected using specific antibodies and normalized to actin. The bar histograms represent normalized levels of NMDAR subunits plotted as percentage of control \pm SD of six (NR2B), four (NR1), and three (NR2A and NR2C) independent experiments. Asterisks indicate significant differences between treatment and control samples ($*p < 0.05$; Student's *t* test). **B**, VTA slices were preincubated for 60 min with the protein synthesis inhibitor anisomycin (20 μ M) followed by 10 min of 1 μ M cocaine (C+A) or with anisomycin alone (A). Slices were also incubated without or with 1 μ M cocaine for 10 min. After treatment, slices were homogenized, and samples (25 μ g) were resolved by SDS-PAGE. The levels of NR1 and NR2B were detected using specific antibodies and normalized to actin. The bar histograms represent normalized levels of NR2B plotted as percentage of control \pm SD of three independent experiments. Asterisks indicate significant differences between cocaine-treated slices and control slices or cocaine and anisomycin plus cocaine slices ($*p < 0.05$; Student's *t* test). **C**, VTA slices were treated without or with 1 μ M cocaine for 10 min or with 1 μ M cocaine for 10 min followed by 30 min washout of cocaine (C+W). After treatments, the level of membranal NR2B in the samples (50 μ g) was determined as in **A**. The bar histogram of normalized NR2B levels is plotted as percentage of control \pm SD of three independent experiments ($*p < 0.05$; Student's *t* test). **D**, VTA slices were treated as in **A**. Samples (25 μ g) were resolved by SDS-PAGE, and the level of NR2B phosphorylation was detected using site-specific phospho-NR2B antibodies (P-1472) normalized to total NR2B. The bar histogram of normalized P-1472 NR2B levels is plotted as percentage of control \pm SD of six independent experiments.