Co-Application of Corticosterone and Growth Hormone Upregulates NR2B Protein and Increases the NR2B: NR2A Ratio and Synaptic Transmission in the Hippocampus

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Abstract:

Objectives: This in vitro study aimed to investigate the possible mechanism underlying the protective effect of growth hormone (GH) on hippocampal function during periods of heightened glucocorticoid exposure. Methods: This study was conducted between January and June 2005 at the Joan C. Edwards School of Medicine, Marshall University, in Huntington, West Virginia, USA. The effects of the co-application of GH and corticosterone (CORT) were tested at different concentrations on the field excitatory postsynaptic ...