Endogenous neuroprotective factors: neurosteroids

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Abstract:
Neurosteroids are a group of steroid hormones synthesized by the brain in the presence of steroidogenic enzymes. Specific neurosteroids modulate function of several receptors, and also regulate growth of neurons, myelinization and synaptogenesis in the central nervous system. Some neurosteroids have been shown to display neuroprotective properties, which may have important implications for their potential use in the treatment of diseases where neurodegeneration is predominant including age-dependent dementia, stroke, epilepsy, spinal cord injury, Alzheimer’s disease (AD), Parkinson’s disease (PD) and Niemann-Pick type C disease (NP-C). This paper focuses on neuroprotection afforded by neurosteroids.

Key words:
neurosteroids, neuroprotection