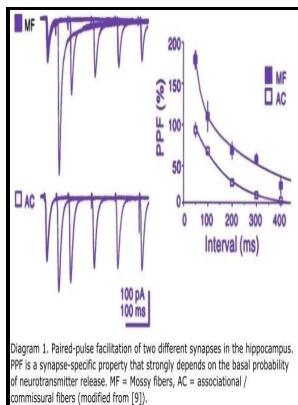


# Hippocampus - neurotransmission and plasticity in the nervous system

**Nova Biomedical Books - Increase of KCC2 in hippocampal synaptic plasticity disturbances after perinatal ethanol exposure**



Description: -

- gamma-Aminobutyric Acid -- physiology
- Synaptic Transmission -- physiology
- Neuronal Plasticity -- physiology
- Hippocampus -- physiology
- GABA
- Neuroplasticity
- Neural transmission
- Hippocampus (Brain) -- Physiology
- Hippocampus - neurotransmission and plasticity in the nervous system
- hippocampus - neurotransmission and plasticity in the nervous system

Notes: Includes bibliographical references and index.

This edition was published in 2007



Filesize: 51.97 MB

Tags: #Synaptic #Plasticity

## The Hippocampus: Neurotransmission and Plasticity in the Nervous System

An interesting property of the hippocampal formation is the unidirectionality of its inputs and outputs, in a way that leads excitation to flow from one structure to the next with a minimum amount of feedback. Conversely, incubating hippocampal slices with a superoxide-generating system leads to an increase in synaptic transmission that occludes LTP Knapp Klann, 2002.

### Neurotransmitters in the regulation of neuronal cytoarchitecture

One such form of short-term plasticity is called depolarization-induced suppression of inhibition DSI or excitation DSE and can be induced by a brief seconds postsynaptic depolarization. One key target of CaMKII activity is the c-amino-3- hydroxyl-5-methyl-4-isoxazole-propionate AMPA receptor. Fluorescence intensity will change with depth because of the scattering of the brain tissue.

### Modulators of synaptic plasticity in the hippocampus

LTP occurs when the action potential back- propagates in the dendrites after the stimulation of the afferents has produced an excitatory postsynaptic potential EPSP within the target cell.

### Hippocampal synaptic plasticity is impaired in the Mecp2

In contrast, adenosine is released from both neurons and glia via nucleoside transporters or diffusion over the cell membrane in a non-vesicular, non-synaptic fashion; its receptors are exclusively G-protein coupled receptors. We first looked at the effects of the 5-HT6 antagonist on LTP using a 400 Hz theta-burst pattern stimulation Figure 2.

### Modulators of synaptic plasticity in the hippocampus

Glutameric neurons convert intracellular glutamine to glutamate, and utilize a vesicular transporter to concentrate the neurotransmitter in presynaptic vesicles.

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