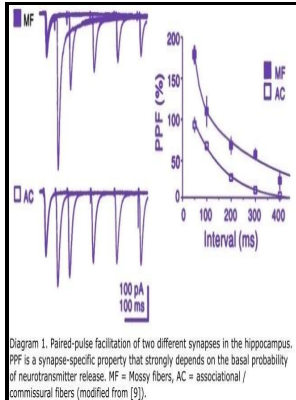


Hippocampus - neurotransmission and plasticity in the nervous system

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.

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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

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

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