



## **Morphological, Electrophysiological, and Synaptic Properties of Corticocallosal Pyramidal Cells in the Neonatal Rat Neocortex**

In contrast to the impaired behavior in the long-term SD test, Shank3-Het and KO rats performed similarly to their WT littermates in the object location memory and contextual fear conditioning memory tests. The stimulation of the second population suppresses the activity of the first, leading to a relaxation of the facilitation to the baseline. The reflex can also be differentially conditioned.

## **Working and Reference Memory Tasks Trigger Opposed Long**

However, experiments by Martin et al. A systematic study of the CCPs synaptic properties is however still lacking.

## **Thalamic theta phase alignment predicts human memory formation and anterior thalamic cross**

However, BTBR hippocampal slices show an increased susceptibility to depotentiation DPT , an activity-induced reversal of LTP.

## **An in vivo electrophysiological and computational analysis of hippocampal synaptic changes in the Alzheimer's disease mouse**

Stable depression of potentiated synaptic responses in the hippocampus with 1—5Hz stimulation. This work was supported by National Institutes of Health grants R01NS057499, R01NS115508, R01NS080598 and F30 NS090817. Therefore, these firing rate models fail in reproducing fast oscillations observed in inhibitory networks, without the addition in their dynamics of an ad-hoc time delay.

## **Vadim Y. Bolshakov**

Witter for advice in making the alterations to the figure. The macroscopic model we developed is extremely flexible since, depending on the operational point, it can mimic WM maintenance in terms of persistent spiking activity or in terms of selective and spontaneous reactivation, based on plastic footprints into the synapses. Application of novel analytical techniques to multi-site EEG recording revealed early and measureable changes in information processing during the onset of AD-like pathology.

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