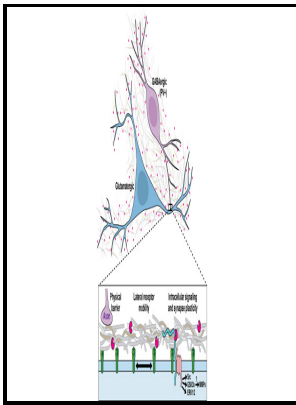


# Synaptic modifications and memory - an electrophysiological analysis

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Another study reported that the large PCs like the TTCs described here displayed an initial burst discharge, whereas small PCs closer to the CCPs presented only a regular spiking behavior in the somatosensory cortex of 1-month-old rats. This type of in vitro pharmacological profiling using post-mortem native human receptors has important applications to study normal and diseased conditions but also to characterize, in vitro, new drugs for the pharmacological treatment of neuropsychiatric and neurodegenerative conditions.

## Gating of hippocampal rhythms and memory by synaptic plasticity in inhibitory interneurons

E, F Late poststimulus 0. In agreement with previous reports ; ; , CCPs had shorter and thinner apical dendrites, smaller soma, and higher input resistance than the thick tufted layer V PCs. Cued fear conditioning A hippocampus-independent form of Pavlovian conditioning in which a rodent comes to associate a tone cue conditional stimulus with an electrical footshock unconditional stimulus.

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

When the WM load consists already of one item coded by an excitatory population, the stimulation of the other population can be regarded as a distractor. To visualize the deletion in exon 6 of the Shank3 gene, we used the Integrated Genome Browser IGB, available online. All recordings were conducted in layer five pyramidal cells in slices kept at 32°C.

## Synaptic plasticity, memory and the hippocampus: a neural network approach to causality

Cerebral cortex New York, NY: 1991. The inhibitory network signaling to CCPs should also be considered in face of the specific excitatory connectivity pattern.

**Vadim Y. Bolshakov**

Both behaviors were observed at high and low current injections. Moreover, we will analyze how the memory capacity depends on the presentation rate of a sequence of items and which frequency bands are excited during loading and maintenance of multiple items in WM. Machens CK, Romo R, Brody CD.

### **Electrophysiological Analysis of Synaptic Transmission**

This study paved the way for a development of an alternative model for WM based on synaptic features. We have now elaborated on this idea in the second paragraph of the Introduction.

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