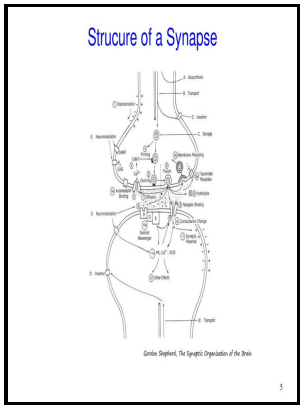
Synaptic organization of the brain

Oxford University Press - 9780195025491



Description: -
-
Australia -- Politics and government
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Neural circuitry
Synapses
Brainsynaptic organization of the brain
-synaptic organization of the brain
Notes: Includes bibliographical references (p. 559-704) and index
This edition was published in 2004

Filesize: 29.58 MB

Tags: #The #Synaptic #Organization #of #the #Brain, #5th #Edition

The Synaptic Organization of the Brain

Dendritic spines are the structural hosts of most excitatory synapses and play an important role in the organization and function of neural circuits. These deficits are not limited to synapse number but also include lower rates of spine turnover, suggesting long-lasting deficits in structural plasticity. Architectonic and synaptic organization in the cortex NS - 08583-04 Comparative neurophysiology helminths brain.

The synaptic organization of the brain (2004 edition)

Each dot in a and b represents the data from each case, with the grey line showing the mean value.

The synaptic organization of the brain (2003 edition)

Third, seemingly similar experiences can alter neuronal circuits in different ways, although each of the alterations is manifest in behavioral change. Adult mice were allowed at least 1 week for recovery.

Synaptic Organization of the Brain

In the early 1990s theorized that phantom limbs were the result of. Brain areas that serve a function in auditory processing repurpose to process somatosensory information in congenitally deaf people.

Three

In 1793, Italian anatomist Michele Vicenzo Malacarne described experiments in which he paired animals, trained one of the pair extensively for

years, and then dissected both.

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Moreover, these data suggest that astrocytes modulate both neuronal excitability and excitatory synaptic transmission in a Shh-dependent manner.

Table of Contents: The synaptic organization of the brain /

Shepard , Neurobiology New York : Oxford University Press , 1983 and Gordon M. We analyzed the fraction of spines undergoing dynamic turnover over 2 days in young mice at P17-P21 and P28-P32.

Neuroplasticity

The contributors discuss the nervous system in terms of longitudinal systems and horizontal levels, and integrate the various areas of the neurosciences - anatomy, embryology, physiology, pathology, and biochemistry - and correlate these basic sciences with clinical neurology.

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