

The Glutamate Synapse As A Therapeutic Target Volume 116 Progress

The Glutamate Synapse As A

Glutamate (neurotransmitter) In neuroscience, glutamate refers to the anion of glutamic acid in its role as a neurotransmitter: a chemical that nerve cells use to send signals to other cells. It is by a wide margin the most abundant neurotransmitter in the vertebrate nervous system.

Glutamate (neurotransmitter) - Wikipedia

Glutamate. Nearly all excitatory neurons in the central nervous system are glutamatergic, and it is estimated that over half of all brain synapses release this agent. Glutamate plays an especially important role in clinical neurology because elevated concentrations of extracellular glutamate, released as a result of neural injury,...

Glutamate - Neuroscience - NCBI Bookshelf

Several points of regulatory control within the synapse, including basal and stimulated presynaptic glutamate release; postsynaptic receptor trafficking and function; and transporter-mediated uptake and recycling of glutamate through the glutamate–glutamine cycle are sensitive to regulation by stress and glucocorticoids.

The stressed synapse: the impact of stress and ...

Glutamate is the major excitatory neurotransmitter at almost all synapses in the vertebrate central nervous system (CNS). Glutamate is packaged into synaptic vesicles in the glutamatergic presynaptic terminals, and released into the synaptic cleft through the fusion of synaptic vesicles to the membrane at the active zone.

Glutamatergic Synapse Pathway - Creative Diagnostics

This volume provides a comprehensive update on basic glutamate research, from a clinical perspective. Thus, emphasis is placed on how the different molecular players at the glutamate synapse interact to produce a postsynaptic response, how synaptic transmission is perturbed in epilepsy and other pathological conditions, and how glutamate may acquire toxic properties and lead to acute or ...

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The classical glutamatergic synapse is a point of communication between a presynaptic nerve terminal and a postsynaptic dendritic spine (axo-dendritic synapses) or another nerve terminal (axo-axonal synapses). However, even astrocytes, oligodendrocytes and microglia express some types of glutamate receptor that may be stimulated by glutamate released from nerve terminals.

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