
Neurotransmitter Release

neurotransmitter: release advanced article jonathan t ... - continuous neurotransmitter release. an overview of the synaptic vesicle cycle is shown in fig. 1. the third and largest synaptic vesicle pool is termed the re-serve pool and does not contribute to neurotransmitter release under normal physiological conditions. it is proposed that re-serve pool vesicles are only recruited with extremely intense **presynaptic mechanisms: neurotransmitter release, synaptic ...** - quantal release occurs spontaneously, infrequently - but is accelerated and synchronized by action potential invading the terminal. single sv contains ~5000 molecules of neurotransmitter. mean number of quanta released per impulse = n (number of release sites) \times p (probability of release per release site) **abnormal neurotransmitter release underlying behavioral ...** - abnormal neurotransmitter release underlying behavioral and cognitive disorders: toward concepts of dynamic and function-specific dysregulation martin sarter*,1, john p bruno2 and vinay parikh1 1department of psychology, university of michigan, ann arbor, mi, usa; 2department of psychology, ohio state university, columbus, oh, usa **neurotransmitters: their role within the body - - rn®** - the release of a neurotransmitter is triggered by the arrival of a nerve impulse (or action potential) and occurs through an unusually rapid process of cellular secretion, also known as exocytosis. within the presynaptic nerve terminal, vesicles containing neurotransmitter sit "docked" and ready at the synaptic membrane. neurotransmitters **neurotransmitter review - brochures and fact sheets** - in addition, dopamine can affect the neurotransmitter release by the target neurons. dopamine-containing neurons in the nac are activated by motivational stimuli, which encourage a person to perform or repeat a behavior. even low alcohol doses can increase dopamine release in part of the nac. this dopamine re- **how does calcium trigger neurotransmitter release? george ...** - release of quantal packets of neurotransmitter, with release arising from the exocytotic discharge of neurotransmitter after the fusion of synaptic vesicles with the presynaptic plasma membrane [1]. given these facts, one might imagine that it would be straightforward to purify synaptic vesicles, identify their molecular constituents, **mechanisms of neurotransmitter release by amphetamines: a ...** - mechanisms of neurotransmitter release by amphetamines: a review david sulzera,b,*, mark s. andersson,b,c, nathan w. poulsen,b, aurelio gallid a department of psychiatry, neurology and pharmacology, new york state psychiatric institute, columbia university, 650 w. 168th street, black building room 309, new york, ny 10032, usa **focus on: neurotransmitter systems** - neurotransmitter systems and normal central nervous system development. efficient communication among large numbers of brain cells (i.e., neurons) is necessary for the normal functioning of the nervous system. a central mechanism of neuronal communication involves the release of neurotransmitters **the mechanisms and functions of spontaneous ...** - release impairment; however, in most circumstances, the process of spontaneous neurotransmitter release was left relatively intact10-13. thus, although these experiments proved the vesicular hypothesis of neurotransmitter release, they raised the question of whether spontaneous release events originate from the same vesicular traf - **neurotransmitters, quantal synaptic release & synaptic ...** - neurotransmitter ach released in quanta (later known to be stored in synaptic vesicles) even without neural stimulus electrical observation of pulses on end-plate -uniform size/shape presence of min.e.p.p. found in diverse synaptic systems frequency of release is directly related to depolarization of **neurotransmitters and receptors - facultysac** - •noradrenergic neurons release ne •ne is a neurotransmitter found in both cns and pns -cns •adrenergic neurons have their nerve cell bodies in brainstem and hypothalamus •heavily branched axons •project to the cerebral cortex, limbic system, thalamus, cerebellum and spinal cord -pns •postganglionic neurons of sympathetic nervous ... **control of neurotransmitter release properties by ...** - control of neurotransmitter release properties by presynaptic calcium the harvard community has made this article openly available. please share how this access benefits you. your story matters citation thanawala, monica shishir. 2014. control of neurotransmitter release properties by presynaptic calcium. doctoral dissertation, harvard university. **the molecular machinery of neurotransmitter release** - of neurotransmitter release to an action potential and directs neurotransmitter release to the synaptic cle". a"er exocytosis, synaptic vesicles recycle by di'er-ent pathways, including fast endocytic mechanisms that are sometimes referred to as 'kiss-and-run' (ceccarelli et al., 1973), as well as slower endocytic mecha- **how does synaptotagmin trigger neurotransmitter release?** - neurotransmitter release at synapses involves a highly specialized form of membrane fusion that is triggered by ca²⁺ ions and is opti-mized for speed. these observations were established decades ago, but only recently have the molecular mechanisms that underlie this process begun to come into view. here, we summarize findings ob-

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