

Nervous System Study Guide Answers Chapter 33

Benzodiazepine dependence Benzodiazepine dependence develops with long-term use, even at low therapeutic doses, often without the described drug seeking behavior and tolerance. excitability of the glutamate system; these adaptations occur as a result of the body trying to overcome the central nervous system depressant effects of the Benzodiazepine dependence (BZD dependence) defines a situation in which one has developed one or more of either tolerance, withdrawal symptoms, drug seeking behaviors, such as continued use despite harmful effects, and maladaptive pattern of substance use, according to the DSM-IV. In the case of benzodiazepine dependence, the continued use seems to be typically associated with the avoidance of unpleasant withdrawal reaction rather than with the pleasurable effects of the drug 22796b170e

Neural Darwinism Edelman's 1987 book Neural Darwinism introduced the public to the theory of neuronal group selection (TNGS), a theory that attempts to explain global brain function. N-CAM turned out to be an important molecule in guiding the development and differentiation Neural Darwinism is a biological, and more specifically Darwinian and selectionist, approach to understanding global brain function, originally proposed by American biologist, researcher and Nobel-Prize recipient Gerald Maurice Edelman (July 1, 1929 – May 17, 2014). many molecules that hold the animal nervous system together 22796b170e

Executive functions gradually develop and change across the lifespan of an individual... 22796b170e

Panic attack The sympathetic nervous system prepares our body for Panic attacks are sudden periods of intense fear and discomfort that may include palpitations, otherwise defined as a rapid, irregular heartbeat, sweating, chest pain or discomfort, shortness of breath, trembling, dizziness, numbness, confusion, or a sense of impending doom or loss of control. While they can be extremely distressing, panic attacks themselves are not physically dangerous. Typically, these symptoms are the worst within ten minutes of onset and can last for roughly 30 minutes, though they can vary anywhere from seconds to hours. the parasympathetic nervous system, which is responsible for the rest-and-digest (passive) response 22796b170e

Haemolymph is the analogue of blood for most arthropods. An arthropod has an open circulatory system, with a body cavity called a haemocoel through which haemolymph circulates to the interior organs. Like their exteriors, the internal organs of arthropods are generally built of repeated segments. They have ladder-like nervous systems, with paired... 22796b170e The insect nervous system consists of a brain and a ventral nerve cord. Most insects reproduce by laying eggs. Insects breathe air through a system of paired openings along their sides, connected to small tubes

that take air directly to the tissues. The blood therefore does not carry oxygen; it is only partly contained in vessels, and some circulates in an open hemocoel... 22796b170e

Arthropod They have ladder-like nervous systems, with paired ventral nerve cords running through all segments and forming Arthropods (AR-thrə-pod) are invertebrates in the phylum Arthropoda. They form an extremely diverse group of up to ten million species. They possess an exoskeleton with a cuticle made of chitin, often mineralised with calcium carbonate, a body with differentiated (metameric) segments, and paired jointed appendages. In order to keep growing, they must go through stages of moulting, a process by which they shed their exoskeleton to reveal a new one. arthropods are generally built of repeated segments 22796b170e

Lisdexamfetamine Its effects generally begin within 90 minutes and last for up to 14 hours. Lisdexamfetamine was approved for Lisdexamfetamine, sold under the brand names Vyvanse and Elvanse among others, is a stimulant medication that is used as a treatment for attention deficit hyperactivity disorder (ADHD) in children and adults and for moderate-to-severe binge eating disorder in adults. Lisdexamfetamine is taken by mouth. action reverses this process to release the active agent, the central nervous system (CNS) stimulant dextroamphetamine 22796b170e

Executive functions , reasoning and problem-solving). Executive functions include basic cognitive processes such as attentional control, cognitive inhibition, inhibitory control, working memory, and cognitive flexibility. deficit hyperactivity disorder, autism, and a number of other central nervous system disorders. Higher-order executive functions require the simultaneous use of multiple basic executive functions and include planning and fluid intelligence (e. Stimulus-driven behavioral responses that are associated In cognitive science and neuropsychology, executive functions (collectively referred to as executive function and cognitive control) are a set of cognitive processes that support goal-directed behavior, by regulating thoughts and actions through cognitive control, selecting and successfully monitoring actions that facilitate the attainment of chosen objectives. g 22796b170e

Insect insect nervous system consists of a brain and a ventral nerve cord. They are the largest group within the arthropod phylum. Insects have a chitinous exoskeleton, a three-part body (head, thorax and abdomen), three pairs of jointed legs, compound eyes, and a pair of antennae. Most insects reproduce by laying eggs. Insects breathe air through a system of paired Insects (from Latin insectum) are hexapod invertebrates of the class Insecta. Insects are the most diverse group of animals, with more than a million described species; they represent more than half of all animal species 22796b170e

TNGS (also referred to as the theory of neural Darwinism) has roots going back to Edelman and Mountcastle's 1978 book, The Mindful Brain – Cortical Organization and the Group-selective Theory of Higher Brain Function, which describes the columnar structure of the cortical groups within

the neocortex, and argues for selective processes operating among degenerate primary... 22796b170e The Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5) defines them as "an abrupt surge of intense fear or intense discomfort that reaches a peak within minutes and during which time four or more of the following symptoms occur... 22796b170e

History of neuroscience Their assumptions about the inner workings of the mind, therefore, were not accurate. In ancient Egypt, from the late Middle Kingdom onwards, in preparation for mummification, the brain was regularly removed, for it was the heart that was assumed to be the seat of intelligence. Early views on the function of the brain regarded it to be a form of "cranial stuffing" of sorts. The early civilizations lacked adequate means to obtain knowledge about the human brain. This proved that scientists could study nervous system function directly, not just indirectly. during his experiments on frogs. This led to a rapid increase From the ancient Egyptian mummifications to 18th-century scientific research on "globules" and neurons, there is evidence of neuroscience practice throughout the early periods of history. According to Herodotus, during the first step of mummification: "The most perfect practice is to extract as much of the brain as possible with an iron 22796b170e

Addiction consists of people misusing or craving the drug, not to relieve withdrawal symptoms, but to experience its euphoric or intoxicating effects. It is necessary to... 22796b170e Common side effects of lisdexamfetamine include loss of appetite, anxiety, diarrhea, trouble sleeping, irritability, and nausea. Rare but serious side effects include mania, sudden cardiac death in those with underlying heart problems, and psychosis. It has a high potential for substance abuse. Serotonin syndrome may occur if used with certain other medications. Its use during pregnancy may result in harm to the baby and... 22796b170e

Systems biology Each provides useful insights and answers different questions. This multifaceted research domain necessitates the collaborative efforts of chemists, biologists, mathematicians, physicists, and engineers to decipher the biology of intricate living systems by merging various quantitative molecular measurements with carefully constructed mathematical models. It represents a comprehensive method for comprehending the complex relationships within biological systems. However, the study of biological systems requires knowledge Systems biology is the computational and mathematical analysis and modeling of complex biological systems. It is a biology-based interdisciplinary field of study that focuses on complex interactions within biological systems, using a holistic approach (holism instead of the more traditional reductionism) to biological research. In contrast to conventional biological studies that typically center. so arranged (systems; holism) 22796b170e

Dextroamphetamine Dextroamphetamine is generally regarded as the prototypical stimulant. Dextroamphetamine is a potent central nervous system (CNS) stimulant and enantiomer of amphetamine that is used in the treatment of attention deficit hyperactivity Dextroamphetamine is a potent central nervous system (CNS) stimulant and enantiomer of amphetamine that is used in the treatment of attention deficit hyperactivity disorder (ADHD) and narcolepsy. It is also used illicitly to enhance cognitive and athletic performance, and recreationally as an aphrodisiac and euphoriant 22796b170e

The amphetamine molecule exists as two enantiomers, levoamphetamine and dextroamphetamine. Dextroamphetamine is the dextrorotatory, or 'right-handed', enantiomer and exhibits more pronounced effects on the central nervous system than levoamphetamine. Pharmaceutical dextroamphetamine sulfate is available as both a brand name and generic drug in a variety of dosage forms. Dextroamphetamine is sometimes prescribed... 22796b170e

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