

Chapter 8 Lab Investigation

Endocrine System G W Learning

Heavy metals A heavy metal may be defined on the basis of density, atomic number, or chemical behaviour. A density of more than 5 g/cm³ is sometimes quoted as a commonly used criterion and is used in. manganese (central nervous system damage); cobalt and nickel (carcinogens); copper (toxic for plants), zinc, selenium and silver (endocrine disruption, congenital Heavy metals is a controversial and ambiguous term for metallic elements with relatively high densities, atomic weights, or atomic numbers. Despite this lack of agreement, the term (plural or singular) is widely used in science. More specific definitions have been published, none of which has been widely accepted. The criteria used, and whether metalloids are included, vary depending on the author and context, and arguably, the term "heavy metal" should be avoided. The definitions surveyed in this article encompass up to 96 of the 118 known chemical elements; only mercury, lead, and bismuth meet all of them 77d93fb927

Hedonic hotspots – i.e., the pleasure centers of the brain – are functionally linked. Activation of one hotspot results in the recruitment of the others. Inhibition of one hotspot... 77d93fb927

Endocrine disruptor These disruptions can cause numerous adverse human health outcomes, including alterations in sperm quality and fertility; abnormalities in sex organs, endometriosis, early puberty, altered nervous system or immune function; certain cancers; respiratory problems; metabolic issues; diabetes, obesity, or cardiovascular problems; growth, neurological and learning disabilities, and more. Found in many household and industrial products, endocrine disruptors "interfere with the synthesis, secretion, transport, binding, action, or elimination of natural hormones in the body that are responsible. These disruptions can cause numerous adverse human health

Endocrine disruptors, sometimes also referred to as hormonally active agents, endocrine disrupting chemicals, or endocrine disrupting compounds are chemicals that can interfere with endocrine (or hormonal) systems. disrupting compounds are chemicals that can interfere with endocrine

(or hormonal) systems 77d93fb927

Although humans have always been interested in the natural history of the animals they saw around them, and used this knowledge to domesticate certain species, the formal study of zoology can be said to have originated with Aristotle. He viewed animals as living organisms, studied their structure and development, and considered their adaptations to their surroundings and the function of their parts... 77d93fb927

Laboratory rat While less commonly used for research than laboratory mice, rats have served as an important animal model for research in psychology and biomedical science, and "lab rat" is commonly used as an idiom for a test subject.

Laboratory rats or lab rats are strains of the rat subspecies *Rattus norvegicus domestica* (Domestic Norwegian rat) which are bred and kept for scientific Laboratory rats or lab rats are strains of the rat subspecies *Rattus norvegicus domestica* (Domestic Norwegian rat) which are bred and kept for scientific research 77d93fb927

Euphoria Romantic love and components of the human sexual response cycle are also associated with the induction of euphoria. Euphoria is also a symptom of certain neurological or neuropsychiatric disorders, such as mania. Certain natural rewards and social activities, such as aerobic exercise, laughter, listening to or making music and dancing, can induce a state of euphoria. Certain drugs, many of which are addictive, can cause euphoria, which at least partially motivates their recreational use. "Acute psychotropic, autonomic, and endocrine effects of 5,6-methylenedioxy-2-aminoindane (MDAI) compared with 3 Euphoria (yoo-FOR-ee-ə) is the experience (or affect) of pleasure or excitement and intense feelings of well-being and happiness.

ME, Auwärter V (September 2024) 77d93fb927

Anabolic steroid doi:10. The term "anabolic steroid" is essentially synonymous with "steroidal androgen" or "steroidal androgen receptor agonist". health consequences of performance-enhancing drugs: an Endocrine Society scientific statement". 35 (3): 341–375. Anabolic steroids have a number of medical uses, but are also used by athletes to increase muscle size, strength, and performance.

2013-1058 Anabolic steroids, also known as anabolic–androgenic steroids (AAS), are a class of drugs that are structurally related to testosterone, the main male sex hormone, and produce effects by binding to and activating the androgen receptor (AR). 1210/er. Endocrine

Reviews 77d93fb927

Zoology Zoology is one of the primary branches of biology. Developmental biology is the Zoology (zoh-OL-ə-jee, UK also zoo-) is the scientific study of animals. Its studies include the structure, embryology, classification, habits, and distribution of all animals, both living and extinct, and how they interact with their ecosystems. The term is derived from Ancient Greek ζῷον, zōion ('animal'), and λόγος, logos ('knowledge', 'study'). Physiology studies how, for example, the nervous, immune, endocrine, respiratory, and circulatory systems function and interact 77d93fb927

History of diabetes ; Burns, Thomas W. Early accounts often referred to diabetes as a disease of the kidneys. For a long time, the condition was described and treated in traditional Chinese medicine as xiāo kě (消渴; "wasting-thirst"). 1550 BC). ; Werner, Harold V. (eds. "The Endocrine Pancreas, past and present".). Ayurvedic physicians (5th/6th century BC) first noted the sweet taste of diabetic urine, and called the condition madhumeha ("honey urine"). The term diabetes traces back to Demetrius of Apamea (1st century BC). The Endocrine Pancreas The condition known today as diabetes (usually referring to diabetes mellitus) is thought to have been described in the Ebers Papyrus (c. ; Anderson, Ralph R. In Klachko, David M. In 1674, Thomas Willis suggested that diabetes may be a disease of the blood. Physicians of the medieval Islamic world, including Avicenna, have also written on diabetes. Johann Peter Frank is credited with distinguishing diabetes mellitus and diabetes 77d93fb927

Apoptosis and autophagy are both forms of programmed cell death. Necrosis is the death of a cell caused by external factors such as trauma or infection and occurs in several different forms. Necrosis was long seen as a non-physiological process that occurs as... 77d93fb927 Health risks can be produced by long-term use or excessive doses of AAS. These effects include harmful changes in cholesterol levels (increased low-density lipoprotein and decreased high-density lipoprotein), acne, high blood pressure, liver damage (mainly with most oral AAS), and left ventricular hypertrophy... 77d93fb927

Programmed cell death For example, the differentiation of fingers and toes in a developing human embryo occurs because cells between the fingers apoptose; the result is that the digits are separate. PCD serves fundamental functions during

both plant and animal tissue development. PCD is carried out in a biological process, which usually confers advantage during an organism's lifecycle. Inadequate nutrition Loss of endocrine stimulation Senility Compression The initial expansion of the developing nervous system is counterbalanced by the Programmed cell death (PCD) sometimes referred to as cell, or cellular suicide is the death of a cell as a result of events inside of a cell, such as apoptosis or autophagy 77d93fb927

Testosterone In addition, testosterone in both sexes is involved in health and well-being, where it has a significant effect on overall mood, cognition, social and sexual behavior, metabolism and energy output, the cardiovascular system, and in the prevention of osteoporosis. It is associated with increased aggression, sex drive, dominance, courtship display, and a wide range of behavioral characteristics. PMID 3549275. (February 1987). doi:10. "Biological actions of androgens". 8 (1): 1–28. Endocrine Reviews. Insufficient levels of testosterone in men may lead to abnormalities including frailty, accumulation. 1210/edrv-8-1-1. Bassil N, Alkaade S, Morley JE Testosterone is the primary male sex hormone and androgen in males. In humans, testosterone plays a key role in the development of male reproductive tissues such as testicles and prostate, as well as promoting secondary sexual characteristics such as increased muscle and bone mass, and the growth of body hair 77d93fb927

Attention deficit hyperactivity disorder , difficulties learning in school); b) future patient outcomes (e. g. g. , medications Attention deficit hyperactivity disorder (ADHD) is a neurodevelopmental disorder characterised by symptoms of inattention, hyperactivity, impulsivity, and emotional dysregulation that are excessive and pervasive, impairing in multiple contexts, and developmentally inappropriate. g. , risk for future drug abuse); c) response to treatment (e. may have (e. ADHD symptoms arise from executive dysfunction 77d93fb927

Impairments resulting from deficits in self-regulation such as time management, inhibition, task initiation, and sustained attention can include poor professional performance, relationship difficulties, and numerous health risks, collectively predisposing to a diminished quality of life and a reduction in life expectancy. As a consequence, the disorder costs society hundreds of billions of US

dollars each year, worldwide. It is associated with other mental disorders as... 77d93fb927

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