

The Brain A Very Short Introduction

Split-brain Initially, partial callosotomies are performed; if this operation does not succeed, a complete callosotomy is performed to mitigate the risk of accidental physical injury by reducing the severity and violence of epileptic seizures. The surgical operation to produce this condition (corpus callosotomy) involves transection of the corpus callosum, and is usually a last resort to treat refractory epilepsy. After surgery. Split-brain or callosal syndrome is a type of disconnection syndrome when the corpus callosum connecting the two hemispheres of the brain is severed to Split-brain or callosal syndrome is a type of disconnection syndrome when the corpus callosum connecting the two hemispheres of the brain is severed to some degree. It is an association of symptoms produced by disruption of, or interference with, the connection between the hemispheres of the brain. Before using callosotomies, epilepsy is instead treated through pharmaceutical means

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The cerebrum, the largest part of the human brain, consists of two cerebral hemispheres. Each hemisphere has an inner core composed of white matter, and an outer surface – the cerebral cortex – composed of grey matter. The cortex has an outer layer, the neocortex, and an inner allocortex. The neocortex is made up of six neuronal layers, while the allocortex...

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Charles Kimberlin Brain Very early in Brain's career, Robert Ardrey wrote of him: [In 1958] I was spending a night in a South African village with a party of scientists Charles Kimberlin Brain (7 May 1931 – 6 June 2023), also known as C. K. "Bob" Brain, was a South African paleontologist who studied and taught African cave taphonomy for more than fifty years. million visitors

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Brain tumor Other symptoms may include difficulty walking, speaking, with sensations, or unconsciousness. All types of brain tumors may produce symptoms that vary depending on the size of the tumor and the part of the brain that is involved. Where symptoms exist, they may include headaches, seizures, problems with vision, vomiting and mental changes. There are two main types of tumors: malignant (cancerous) tumors and benign (non-cancerous) tumors. These can be further classified as primary tumors, which start within the brain, and secondary tumors, which most commonly have spread from tumors located outside the brain, known as brain metastasis tumors. A brain tumor (sometimes referred to as brain cancer) occurs when a group of cells within the brain turn cancerous and grow out of control, creating a A brain tumor (sometimes referred to as brain cancer) occurs when a group of cells within the brain turn cancerous and grow out of control, creating a mass

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Some traits are part of an organism's physical appearance, such as eye color or height. Other sorts of traits are not easily seen and include blood types or resistance to diseases. Some traits are inherited through genes, which is the reason why tall and thin people tend to have tall and thin children. Other traits come from interactions between genes and the environment, so a child who inherited the...

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Human brain The brain integrates sensory information and coordinates instructions sent to the rest of the body. It consists of the cerebrum and the spinal cord, comprises the central nervous system. It consists of the cerebrum, the brainstem and the cerebellum. The human brain is the central organ of the nervous system, and with the spinal cord, comprises the central nervous system. The brain controls most of the activities of the body, processing, integrating, and coordinating the information it receives from the sensory nervous system 6a03c9f72b

An interruption of blood flow to the brain for more than 10 seconds causes unconsciousness, and an interruption in flow for more than a few minutes generally results in irreversible brain damage. In 1974, Hossmann and Zimmermann demonstrated that ischemia induced in mammalian brains for up to an hour can be at... 6a03c9f72b

Introduction to genetics who inherited the tendency of being tall will still be short if poorly nourished. Genetics tries to identify which traits are inherited and to explain how these traits are passed from generation to generation. Genes are how living organisms inherit features or traits from their ancestors; for example, children usually look like their parents because they have inherited their parents' genes. The way our genes and environment interact to produce a trait can be Genetics is the study of genes and tries to explain what they are and how they work 6a03c9f72b

Brain ischemia Brain ischemia is a condition in which there is insufficient bloodflow to the brain to meet metabolic demand. This leads to poor oxygen supply in the brain and may be temporary such as in transient ischemic attack or permanent in which there is death of brain tissue such as in cerebral infarction (ischemic stroke). This leads to poor oxygen supply in the Brain ischemia is a condition in which there is insufficient bloodflow to the brain to meet metabolic demand 6a03c9f72b

Most of the books have been written specifically for the series, but around 60 were recycled from earlier OUP publications: several had been in OUP's Past... 6a03c9f72b

Very Short Introductions The books are concise introductions to particular subjects, intended for a general audience but written by experts. Very Short Introductions (VSI) is a book series published by the Oxford University Press (OUP). Most are under 200-pages long. While authors may present personal viewpoints, the books are meant to be "balanced and complete" as well as thought provoking. The books are concise introductions to particular subjects Very Short Introductions (VSI) is a book series published by the Oxford University Press (OUP) 6a03c9f72b

While invertebrate brains arise from paired segmental ganglia (each of which is only responsible for the respective body segment) of the ventral nerve cord, vertebrate brains develop axially from the midline dorsal nerve cord as a vesicular enlargement at the rostral... 6a03c9f72b

World Brain World Brain is a collection of essays and addresses by the English science fiction pioneer, social reformer, evolutionary biologist and historian H. G. Wells. Throughout the book, Wells describes his vision of the World Brain: a new, free, synthetic, authoritative, permanent "World Encyclopaedia" that could help world citizens make the best use of universal information resources and make the best contribution to world peace. World Brain is a collection of essays and addresses

by the English science fiction pioneer, social reformer, evolutionary biologist and historian H. Wells, dating from the period of 1936–1938. G 6a03c9f72b

Herniation can also occur in the absence of high ICP when mass lesions such as hematomas occur at the borders of brain compartments. In such cases local pressure is increased at the place where the herniation occurs... 6a03c9f72b

Brain herniation Herniation can be caused by a number of factors that cause a mass effect and increase intracranial pressure (ICP): these include traumatic brain injury, intracranial hemorrhage, or brain tumor. The brain can shift across such structures as the falx cerebri, the tentorium cerebelli, and even through the foramen magnum (the hole in the base of the skull through which the spinal cord connects with the brain). Brain herniation is a potentially deadly side effect of very high pressure within the skull that occurs when a part of the brain is squeezed across structures Brain herniation is a potentially deadly side effect of very high pressure within the skull that occurs when a part of the brain is squeezed across structures within the skull 6a03c9f72b

The symptoms of brain ischemia reflect the anatomical region undergoing blood and oxygen deprivation, and may involve impairments in vision, body movement, and speaking. 6a03c9f72b The series began in 1995, and by June 2025 there were over 750 titles published or announced. The books have been commercially successful, and have been published in more than 25 languages. Institutions can subscribe to an online service to allow their users to read the books. 6a03c9f72b

Brain Being the most specialized organ, it is responsible for receiving information from the sensory nervous system, processing that information (thought, cognition, and intelligence) and the coordination of motor control (muscle activity and endocrine system). The brain is an organ that serves as the center of the nervous system in all vertebrate and most invertebrate animals. It consists of nervous tissue and The brain is an organ that serves as the center of the nervous system in all vertebrate and most invertebrate animals. It consists of nervous tissue and is typically located in the head (cephalization), usually near organs for special senses such as vision, hearing, and olfaction 6a03c9f72b

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