

Structure Of The Human Brain A Photographic Atlas

The Human Brain The Human Brain: The CD-ROM Has a simple, easy-to-use layout, thet guides the student through an introduction to the human nervous system, using text, voice. over and interactive images, including a rotatable model of the brain which allows various substructures to be highlighted The Human Brain Human Brain Evolution The Brain Survival Of The Fattest: The Key To Human Brain Evolution Structure of the Human Brain The Human Brain The Human Brain Encyclopedia of the Human Brain 50 Human Brain Ideas You Really Need to Know Encyclopedia of the Human Brain The Everything Guide to the Human Brain The Private Life of the Brain Human Brain The Brain The Human Advantage Human Intelligence and Medical Illness The Tell-Tale Brain The Brain: A User's Manual Susan A Greenfield David Robinson John Nolte Stephen Cunnane Christine Temple Stephan Cosgrave Cunnane Stephen J. DeArmond John Nolte Susan Greenfield Moheb Costandi Rudolph C Hatfield Susan Greenfield Charles Watson Suzana Herculano-Houzel R. Grant Steen V. S. Ramachandran Marco Magrini

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what would you see if you removed the skull from the human brain and then slowly worked your way deeper and deeper into the brain to the level of an individual neuron with renowned brain researcher susan greenfield as your guide here is your chance to gain a bird s eye view of the human brain and to learn more about what the brain is how it works what happens when one part of the brain is made dysfunctional through stroke or accident how brain mood modifying drugs find their targets in a particularly fascinating chapter greenfield surveys for us how a brain is built and then takes us on a tour of the developing brain from the moment of conception throughout greenfield poses the larger questions all readers want to consider including at what stage does individuality creep into the developing brain how does the collection of circuits of neurons give rise not just to an individual brain but an individual consciousness what might a fetus be conscious of

the evolution of the human brain and cognitive ability is one of the central themes of physical biological anthropology this book discusses the emergence of human cognition at a conceptual level describing it as a process of long adaptive stasis interrupted by short periods of cognitive advance these advances were not linear and directed but

were acquired indirectly as part of changing human behaviors in other words through the process of exaptation acquisition of a function for which it was not originally selected based on studies of the modern human brain certain prerequisites were needed for the development of the early brain and associated cognitive advances this book documents the energy and nutrient constraints of the modern brain highlighting the significant role of long chain polyunsaturated fatty acids like pufa in brain development and maintenance Crawford provides further emphasis for the role of essential fatty acids in particular DHA in brain development by discussing the evolution of the eye and neural systems this is an ideal book for graduate students post docs research scientists in physical biological anthropology human biology archaeology nutrition cognitive science neurosciences it is also an excellent selection for a grad student discussion seminar

providing an overview of current ideas about the brain this book includes current physiological and anatomical understanding as well as cognitive and behavioural understanding the book starts with an account of physiology and brain anatomy

how did humans evolve larger and more sophisticated brains in general evolution depends on a special combination of circumstances part genetics part time and part environment in the case of human brain evolution the main environmental influence was adaptation to a shore based diet which provided the world's richest source of nutrition as well as a sedentary lifestyle that promoted fat deposition such a diet included shellfish fish marsh plants frogs bird's eggs etc humans and more importantly hominid babies started to get fat a crucial distinction that led to the development of larger brains and to the evolution of modern humans a larger brain is expensive to maintain and this increasing demand for energy results in the survival of the fittest

already known as the reference of choice for expert coverage on the structure and function of the human brain and the nervous system Nolte's the human brain continues to impress with essential updates throughout this new edition it includes a new chapter on formation modification and repair of connections with coverage of learning and memory as well as the coming revolution of ways to fix damaged nervous systems trophic factors stem cells and more 550 full color illustrations more than 650 in all support the text and depict every nuance of brain function but best of all your purchase now includes access to the entire contents online including all of the book's illustrations video clips and additional software plus many other exclusive features at studentconsult.com

locked away in its casing of skull bone the brain remains a tantalising mystery despite astounding progress in brain research this book begins by exploring the different regions of the brain and goes on to examine how certain functions are accommodated in the brain it looks at how the basic building blocks of the brain brain cells communicate with each other and how such communication can be modified by drugs it also describes how a brain is made from a single fertilized egg and the fate of a brain is traced through life as readers see how it constantly changes as a result of experience to create the essence of a unique individual finally the book explores what memory is how it works and where it occurs in the brain

neuroscience is one of the most fascinating and complex areas of scientific research with new advances being made every day in 50 human brain ideas you really need to know Mo Costandi condenses all we know about the brain and how it works into series of introductions to the most important concepts outlining both long standing theories such

as the function of neurons and synaptic transmission and cutting edge ideas including neuroethics and brain computer interfacing with straightforward narrative and clear two colour illustrations this book is a perfect beginner's guide to the most powerful and mysterious organ in the body the ideas explored include the nervous impulse differences between the male and female brain the root of addiction neurobiological basis for personality the relationship between sleep and memory

in the past decade enormous strides have been made in understanding the human brain the advent of sophisticated new imaging techniques e g pet mri meg etc and new behavioral testing procedures have revolutionized our understanding of the brain and we now know more about the anatomy functions and development of this organ than ever before however much of this knowledge is scattered across scientific journals and books in a diverse group of specialties psychology neuroscience medicine etc the encyclopedia of the human brain places all information in a single source and contains clearly written summaries on what is known of the human brain covering anatomy physiology neuropsychology clinical neurology neuropharmacology evolutionary biology genetics and behavioral science this four volume encyclopedia contains over 200 peer reviewed signed articles from experts around the world the encyclopedia articles range in size from 5 30 printed pages each and contain a definition paragraph glossary outline and suggested readings in addition to the body of the article lavishly illustrated the encyclopedia includes over 1000 figures many in full color managing both breadth and depth the encyclopedia is a must have reference work for life science libraries and researchers investigating the human brain

an essential guide for understanding the inner workings of your brain do you really only use 10 percent of your brain can a bump to the head really restore memories does your brain ever lie to you why do you always forget where your glasses are but never how to read the brain makes you who you are this fascinating organ creates your personality and controls your reactions and emotions it's responsible for how you perceive the world around you all while controlling hundreds of physical functions like breathing moving circulation and digestion the brain is simply amazing the everything guide to the human brain will help you to unlock the mysteries of the brain you'll learn how the brain communicates with each part of the body how it affects your emotional life why you dream and how you remember things and you'll also get in depth descriptions of brain disorders and how science and medicine are working to heal or reverse them written in plain english this ultimate user's guide will help you learn about the most influential part of your body

how does the human brain produce your private world critically acclaimed neuroscientist and author susan greenfield who holds the prestigious position of director of the royal institution in england weaves together a thought provoking examination of childhood experiences primal emotions such as fear and euphoria and the effects drugs have on our personalities to probe the most intriguing mystery facing today's scientists how does the human brain create consciousness and a unique sense of self in this absorbing lyrical exploration dr greenfield presents a provocative new theory that treats emotions as the building blocks of our consciousness and provides an illuminating glimpse into the human brain that reveals the astonishing essence of who we are

the authors of the most cited neuroscience publication the rat brain in stereotaxic coordinates have written this introductory textbook for neuroscience students the text is clear and concise and offers an excellent introduction to the essential concepts of

neuroscience based on contemporary neuroscience research rather than old style medical school neuroanatomy thorough treatment of motor and sensory systems a detailed chapter on human cerebral cortex the neuroscience of consciousness memory emotion brain injury and mental illness a comprehensive chapter on brain development a summary of the techniques of brain research a detailed glossary of neuroscience terms illustrated with over 130 color photographs and diagrams this book will inspire and inform students of neuroscience it is designed for beginning students in the health sciences including psychology nursing biology and medicine clearly and concisely written for easy comprehension by beginning students based on contemporary neuroscience research rather than the concepts of old style medical school neuroanatomy thorough treatment of motor and sensory systems a detailed chapter on human cerebral cortex discussion of the neuroscience of conscience memory cognitive function brain injury and mental illness a comprehensive chapter on brain development a summary of the techniques of brain research a detailed glossary of neuroscience terms illustrated with over 100 color photographs and diagrams

why our human brains are awesome and how we left our cousins the great apes behind a tale of neurons and calories and cooking humans are awesome our brains are gigantic seven times larger than they should be for the size of our bodies the human brain uses 25 of all the energy the body requires each day and it became enormous in a very short amount of time in evolution allowing us to leave our cousins the great apes behind so the human brain is special right wrong according to suzana herculano houzel humans have developed cognitive abilities that outstrip those of all other animals but not because we are evolutionary outliers the human brain was not singled out to become amazing in its own exclusive way and it never stopped being a primate brain if we are not an exception to the rules of evolution then what is the source of the human advantage herculano houzel shows that it is not the size of our brain that matters but the fact that we have more neurons in the cerebral cortex than any other animal thanks to our ancestors invention some 1.5 million years ago of a more efficient way to obtain calories cooking because we are primates ingesting more calories in less time made possible the rapid acquisition of a huge number of neurons in the still fairly small cerebral cortex the part of the brain responsible for finding patterns reasoning developing technology and passing it on through culture herculano houzel shows us how she came to these conclusions making brain soup to determine the number of neurons in the brain for example and bringing animal brains in a suitcase through customs the human advantage is an engaging and original look at how we became remarkable without ever being special

as critics will note psychometric tests are deeply flawed person to person differences in performance on a psychometric test are not informative about many things of great interest an intelligence quotient iq cannot characterize creativity or wisdom or artistic ability or other forms of specialized knowledge an iq test is simply an effort to assess an aptitude for success in the modern world and individual scores do a mediocre job of predicting individual successes in the early days of psychology tests of intelligence were cobbled together with little thought as to validity instead the socially powerful sought to validate their power and the prominent to rationalize their success in recent years we have obated many of the objections to iq that were so forcefully noted by stephen jay Gould in the mismeasure of man nevertheless iq tests are still flawed and those flaws are hereby acknowledged in principle yet in the analysis that follows individual iq test scores are not used rather average iq scores are employed in many cases though not all an average iq is calculated from a truly enormous sample of people the most common circumstance for such large scale iq testing is an effort to systematically sample all men of a

certain age to assess their suitability for service in the military yet it is useful and prudent to retain some degree of skepticism about the ability of iq tests to measure individual aptitudes

a profoundly intriguing and compelling guide to the intricacies of the human brain oliver sacks in this landmark work v s ramachandran investigates strange unforgettable cases from patients who believe they are dead to sufferers of phantom limb syndrome with a storyteller s eye for compelling case studies and a researcher s flair for new approaches to age old questions ramachandran tackles the most exciting and controversial topics in brain science including language creativity and consciousness

congratulations on the purchase of this exclusive product tailor made just for you it will provide you with years of continuous existence so begins the brain a user s manual marco magrini s fascinating guide to the inner workings of one of nature s most miraculous but misunderstood creations the human brain this user friendly manual offers an accessible guide to the machine you use the most deconstructing the brain into its constituent parts and showing you both how they function and how to maintain them for a longer life cutting through the noise of modern pop psychology the brain a user s manual is a refreshingly factual approach to self help written with a deft style and wry humour it offers tips on everything from maximising productivity to retaining memory and boosting your mood

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