



The Human Brain

Merlin C. Wittrock



The Human Brain:

The Human Advantage Suzana Herculano-Houzel, 2016-03-18 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

Encyclopedia of the Human Brain, 2002-07-04 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

The Human Brain Book Rita Carter, 2014-04-01 How can one organ generate consciousness memory personality and more This comprehensive book uses the latest findings from neuroscience to present a jaw dropping journey into the complexities of the most extraordinary phenomenon ever the human brain Ancient Greek Aristotle thought the brain was just

a device for cooling the blood Today we know that the brain is actually more complex than any computer Its 100 billion cells are in constant complex interplay to produce language and memory and generate sights sounds emotions and thoughts In this indispensable book view exploded artworks and scans that map its intricate workings and reveal the web of pathways that connect vision and memory so you can instantly recognise your neighbourhood or a friend s face The Human Brain Book reveals the intricate two way traffic between the limbic system and the cortex that generates emotions and it answers myriad questions such as what is personality or why do we sleep With its coverage of more than 50 disorders from strokes to schizophrenia The Human Brain Book is a fascinating read for anyone interested in science and health and is an accessible manual for students and healthcare professionals alike

The Human Brain Susan A Greenfield,2008-08-05 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

A History of the Human Brain Bret Stetka,2021-03-16 Crack open this book and take a read You will be transported illuminated and delighted Psychology Today Just 125 000 years ago humanity was on a path to extinction until a dramatic shift occurred We used our mental abilities to navigate new terrain and changing climates We hunted foraged tracked tides shucked oysters anything we could do to survive Before long our species had pulled itself back from the brink and was on more stable ground What saved us The human brain and its evolutionary journey is unlike any other In *A History of the Human Brain* Bret Stetka takes us on this far reaching journey explaining exactly how our most mysterious organ developed From the brain s improbable watery beginnings to the marvel that sits in the head of Homo sapiens today Stetka covers an astonishing progression even tackling future brainy frontiers such as epigenetics and CRISPR Clearly and expertly told this intriguing account is the story of who we are By examining the history of the brain we can begin to piece together what it truly means to be human

The Human Brain Merlin C. Wittrock,1977 *Discoveries in the Human Brain* Louise H. Marshall,Horace W. Magoun,2013-03-09 170u can climb back up a stream of radiance to the sky and back through history up the stream of time 1 Robert Frost topics that he judged to be important in brain his From the last years of the second millennium tory leading into the end of the century and was we can look back on antecedent events in neuro undertaken in response to the enthusiasm gener science with amazement that so much of modern ated by exhibition at several national and interna biomedical science

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The Human Brain Miguel Marín-Padilla, 2010-10-21 This book is unique among the current literature in that it systematically documents the prenatal structural development of the human brain It is based on lifelong study using essentially a single staining procedure the classic rapid Golgi procedure which ensures an unusual and desirable uniformity in the observations The book is amply illustrated with 81 large high quality color photomicrographs never previously reproduced These photomicrographs obtained at 6 7 11 15 18 20 25 30 35 and 40 weeks of gestation offer a fascinating insight into the sequential prenatal development of neurons blood vessels and glia in the human brain

The Human Brain, Its Capacities and Functions Isaac Asimov, 1964 Provides an explanation of the human brain including its divisions systems and functions

Zero to Birth William A. Harris, 2024-01-09 Professor W A Harris takes readers on an extraordinary journey to the very edge of creation from the moment of an egg's fertilization through each step of a human brain's development in the womb Provided by publisher

The Human Brain Edited by Kathy Bradshaw, 2017-09-08 The human brain is the central organ of the human nervous system and with the spinal cord makes up the central nervous system The brain consists of the cerebrum the brainstem and the cerebellum It controls most of the activities of the body processing integrating and coordinating the information it receives from the sense organs and making decisions as to the instructions sent to the rest of the body The brain is contained in and protected by the skull bones of the head The cerebrum is the largest part of the human brain It is divided into two cerebral hemispheres The cerebral cortex is an outer layer of grey matter covering the core of white matter The cortex is split into the neocortex and the much smaller allocortex The neocortex is made up of six neuronal layers while the allocortex has three or four Each hemisphere is conventionally divided into four lobes the frontal temporal parietal and occipital lobes This book is designed to be a state of the art superb academic reference work and provide an overview of the topic and give the reader a structured knowledge to familiarize yourself with the topic at the most affordable price possible The accuracy and knowledge is of an international viewpoint as the edited articles represent the inputs of many knowledgeable individuals and some of the most current knowledge on the topic based on the date of publication

The Human Nervous System Juergen K Mai, George Paxinos, 2011-12-13 The previous two editions of the Human Nervous System have been the standard reference for the anatomy of the central and peripheral nervous system of the human The work has attracted nearly 2 000 citations

demonstrating that it has a major influence in the field of neuroscience The 3e is a complete and updated revision with new chapters covering genes and anatomy gene expression studies and glia cells The book continues to be an excellent companion to the Atlas of the Human Brain and a common nomenclature throughout the book is enforced Physiological data functional concepts and correlates to the neuroanatomy of the major model systems rat and mouse as well as brain function round out the new edition Adopts standard nomenclature following the new scheme by Paxinos Watson and Puelles and aligned with the Mai et al Atlas of the Human Brain new edition in 2007 Full color throughout with many new and significantly enhanced illustrations Provides essential reference information for users in conjunction with brain atlases for the identification of brain structures the connectivity between different areas and to evaluate data collected in anatomical physiological pharmacological behavioral and imaging studies

The Human Brain: The CD-ROM Has a simple, easy-to-use layout, that 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 David Robinson, Marion Hall, The Open University, 1998 The Human Brain Arthur Marvel Lassek, 1957

Encyclopedia of the Human Brain, 2002

The Everything Guide to the Human Brain Rudolph C

Hatfield, 2013-05-18 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

The Brain Christine Temple, 1993 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

The Human Brain and Spinal Cord Edwin Clarke, Charles Donald

O'Malley, 1968

The Human Brain, 2015

The Human Brain John Nolte, 2009 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

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The Human Brain Introduction

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