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# The Human Brain Book

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Human Brain Function

The Developing Human Brain

An Illustrated Guide to its Structure, Function, and Disorders

Human Brain Coloring Book

Plants and the Human Brain

From the Sea Sponge to CRISPR, How Our Brain Evolved

A Colorful Introduction to the Anatomy of the Human Brain

A Brain and Psychology Coloring Book (Custom Edition)

Activities and puzzles to keep your mind active and healthy

Big Brain Book

Nolte's Essentials of the Human Brain E-Book

The Human Brain Book

Seven and a Half Lessons about the Brain

An Introduction to its Functional Anatomy

The Brain Book

Brain Book

Think Tank! the Human Brain and How It Works - Anatomy for Kids - Children's

Biology Books

The Human Brain

Magnetic Source Imaging of the Human Brain

Probing Cognition

A New Understanding of How Our Brain Became Remarkable

The Story of You

The Human Sciences after the Decade of the Brain

An Illustrated Guide to its Structure, Functions, and Disorders

Discovering the Brain

Horse Brain, Human Brain

The Brain

Nolte's The Human Brain E-Book

The Human Brain

The Human Brain Book

An Introduction to Its Functional Anatomy

Cognitive Neuroscience

Mapping the Mind

Evolution of the Human Brain: From Matter to Mind

The Neuroscience of Horsemanship

The Human Advantage

Growth and Epidemiologic Neuropathology

Salience Network of the Human Brain

A History of the Human Brain

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## LOGAN CUNNINGHAM

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*Human Brain Function* Speedy Publishing LLC

Susan Greenfield, one of the world's pre-eminent scientists, takes the reader on a guided tour of the final frontier in human understanding: the brain. Locked away remote from the rest of the body in its own custom-built casing of skull bone, with no intrinsic moving parts, the human brain remains a tantalising mystery. But now, more than ever before, we have the expertise to tackle this mystery - the last 20 years have seen astounding progress in brain research. Susan Greenfield begins by exploring the roles of different regions of the brain. She then switches to the opposite direction and examines how certain functions, such as movement and vision, are accommodated in the brain. She describes how a brain is made from a single fertilized egg, and the fate of the brain is traced through life as we see how it constantly changes as a result of experience to provide the essence of a unique individual.

*The Developing Human Brain* Trafalgar Square Books

"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.

*An Illustrated Guide to its Structure, Function, and Disorders* Taylor & Francis

The brain ... There is no other part of the human anatomy that is so intriguing. How does it develop and function and why does it sometimes, tragically, degenerate? The answers are complex. In *Discovering the Brain*, science writer Sandra Ackerman cuts through the complexity to bring this vital topic to the public. The 1990s were declared the "Decade of the Brain" by former President Bush, and the neuroscience community responded with a host of new investigations and conferences. *Discovering the Brain* is based on the Institute of Medicine conference, Decade of the Brain: Frontiers in Neuroscience and Brain Research. *Discovering the Brain* is a "field guide" to the brain—an easy-to-read discussion of the brain's physical structure and where functions such as language and music appreciation lie. Ackerman examines how electrical and chemical signals are conveyed in the brain. The mechanisms by which we see, hear, think, and pay attention—and how a "gut feeling" actually originates in the brain. Learning and memory retention, including parallels to computer memory and what they might tell us about our own mental capacity. Development of the brain

throughout the life span, with a look at the aging brain. Ackerman provides an enlightening chapter on the connection between the brain's physical condition and various mental disorders and notes what progress can realistically be made toward the prevention and treatment of stroke and other ailments. Finally, she explores the potential for major advances during the "Decade of the Brain," with a look at medical imaging techniques--what various technologies can and cannot tell us--and how the public and private sectors can contribute to continued advances in neuroscience. This highly readable volume will provide the public and policymakers--and many scientists as well--with a helpful guide to understanding the many discoveries that are sure to be announced throughout the "Decade of the Brain."

**Human Brain Coloring Book** Academic Press

This award-winning science book uses the latest findings from neuroscience research and brain-imaging technology to take you on a journey into the human brain. CGI artworks and brain MRI scans reveal the brain's anatomy in unprecedented detail. Step-by-step sequences unravel and simplify the complex processes of brain function, such as how nerves transmit signals, how memories are laid down and recalled, and how we register emotions. The book answers fundamental and compelling questions about the brain: what does it mean to be conscious, what happens when we're asleep, and are the brains of men and women different? Written by award-winning author Rita Carter, this is an accessible and authoritative reference book to a fascinating part of the human body. Thanks to improvements in scanning technology, our understanding of the

brain is changing fast. Now in its third edition, the Brain Book provides an up-to-date guide to one of science's most exciting frontiers. With its coverage of over 50 brain-related diseases and disorders - from strokes to brain tumours and schizophrenia - it is also an essential manual for students and healthcare professionals.

**Plants and the Human Brain** Oxford University Press

The human brain sits on top of the head to direct everything that goes on inside the body. It's interesting to know that such gray organ is made up of so many connectors that hold the key to your personality. Gather up the little ones for a science hour. Read aloud a copy of this book today!

**From the Sea Sponge to CRISPR, How Our Brain Evolved** Oxford University Press

"A History of the Human Brain is a unique, enlightening, and provocative account of the most significant question we can ask about ourselves." —Richard Wrangham, author of *The Goodness Paradox* 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.

*A Colorful Introduction to the Anatomy of the Human Brain* National Academies Press

Saliency Network of the Human Brain focuses on the multiple sources of stimuli that compete for our attention, providing interesting discussions on how the relative saliency—importance or prominence—of each of these inputs determines which ones we choose to focus on for more in-depth processing. The saliency network is a collection of regions of the brain that select which stimuli are deserving of our attention. The network has key nodes in the insular cortex and is critical for detecting behaviorally relevant stimuli and for coordinating the brain's neural resources in response to these stimuli. The insular cortex is a complex and multipurpose structure that plays a role in numerous cognitive functions related to perception, emotion, and interpersonal experience—and the failure of this network to function properly can lead to numerous neuropsychiatric disorders, including autism spectrum disorder, psychosis, and dementia. Presents the only publication available that summarizes our understanding of the saliency network in one resource Authored by a leading research on this important aspect of attention Focuses on the multiple sources of stimuli that compete for our attention, providing interesting discussions on how the relative saliency—importance or prominence—of each of these inputs determines which ones we choose to

focus on for more in-depth processing [A Brain and Psychology Coloring Book \(Custom Edition\)](#) MIT Press

Evolution of the Human Brain: From Matter to Mind, Volume 250 in the Progress in Brain Research, series documents the latest developments and insights about the origin and evolution of the human brain and mind. Specific sections in this new release include Evolution and development of the human cerebral cortex, Functional connectivity of the human cerebral cortex, Lateralization of the human cerebral cortex, Life history strategies and the human cerebral cortex, Evolution of the modern human brain, On the nature and evolution of the human mind, Origin and evolution of human cognition, Origin and evolution of human consciousness, and more.

Presents insights on molecular and cellular mechanisms of human brain evolution Provides a better understanding of the origin and evolution of the human mind Includes information of the neural organization and functional connectivity of the cerebral cortex

**Activities and puzzles to keep your mind active and healthy**

The Human Brain Book An Illustrated Guide to Its Structure, Function, and Disorders "The dramatic story of the brain's role in creating our world, our experience of it, and ourselves; the basis for a PBS television series by the bestselling David Eagleman. How does a three pound mass of biological matter locked in the dark, silent fortress of the skull produce the extraordinary multi-sensory experience that comprises us, while also constructing reality and guiding us through the endless need to make decisions and determine our judgments and into a future that we are convinced

we are shaping? David Eagleman compares the brain to a cityscape with different neighborhoods where neural networks vie for supremacy and determine our behavior in ways we are not always aware or in control of. At the same time, he suggests that the brain works as a storyteller--creating a narrative that allows us to navigate and make sense of a world that it is busy constructing for us"--

**Big Brain Book** Simon and Schuster  
An illustrated guide to the structure, functions and disorders of the human brain  
The human brain is the body part that makes each of us what we are - unique individuals. Here the latest findings in neuroscience and state-of-the-art imagery combine to provide an incomparable insight into the brain's form and function. Through unique computer-generated 3D images and stunning graphics, you'll explore the brain in unprecedented detail. From its function as the hub of the nervous system to schizophrenia, discover how the brain works and why it malfunctions. Gain insight into such esoteric aspects as behaviour, language and communication and discover the nature of genius. Incisive, clear and authoritative, this is an essential human brain manual for students and healthcare professionals, and is also a comprehensive reference book for the family.

[Nolte's Essentials of the Human Brain E-Book](#) Timber Press

Covers the multiple functions of the complex human brain, providing graphics and simple terminology and sidebars written by experts in the field of brain mapping.

**The Human Brain Book** Magination Press

A comprehensive account of the

neurobiological basis of language, arguing that species-specific brain differences may be at the root of the human capacity for language. Language makes us human. It is an intrinsic part of us, although we seldom think about it. Language is also an extremely complex entity with subcomponents responsible for its phonological, syntactic, and semantic aspects. In this landmark work, Angela Friederici offers a comprehensive account of these subcomponents and how they are integrated. Tracing the neurobiological basis of language across brain regions in humans and other primate species, she argues that species-specific brain differences may be at the root of the human capacity for language. Friederici shows which brain regions support the different language processes and, more important, how these brain regions are connected structurally and functionally to make language processes that take place in milliseconds possible. She finds that one particular brain structure (a white matter dorsal tract), connecting syntax-relevant brain regions, is present only in the mature human brain and only weakly present in other primate brains. Is this the "missing link" that explains humans' capacity for language? Friederici describes the basic language functions and their brain basis; the language networks connecting different language-related brain regions; the brain basis of language acquisition during early childhood and when learning a second language, proposing a neurocognitive model of the ontogeny of language; and the evolution of language and underlying neural constraints. She finds that it is the information exchange between the relevant brain regions, supported by the white matter tract, that is the crucial factor in both language development

and evolution.

**Seven and a Half Lessons about the Brain** Elsevier

This new edition is completely redesigned, with additional magnetic resonance images, line drawings to complement the macroscopic atlas, and an extensively expanded section of coronal images. (Midwest).

**An Introduction to its Functional Anatomy** Timber Press

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 Book* J. Wright Psg Incorporated

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.

**Brain Book** Hachette UK

This custom edition is specifically published for the University of Queensland.

**Think Tank! the Human Brain and**

**How It Works - Anatomy for Kids - Children's Biology Books** Houghton Mifflin

A balanced, scientific, and practical approach to monitoring and maintaining your brain's agility and mental health. How do you expand your brain's skills? How do you keep your brain working at its best as it ages? Bookshelves are full of writing by charismatic authors claiming they have found the answer, whether they are neuroscientists, psychologists, or mystics. The Brain Fitness Book looks at the well-established science and recent scientific revelations, and offers a well-balanced, clear, and colorful practical guide to keeping your brain fit. First, it shows you how your brain works--explaining how memories are stored and recalled, for instance, and how different parts of your brain have different functions. It then gives you practical advice and a whole range of exercises to improve memory and mental agility and keep your brain working to its maximum potential. The book includes mental exercises and activities, featuring challenges from logic puzzles and visual reasoning to language learning and sensory exercises, stimulating as many parts of the brain as possible. As well as mental stimulation, the book highlights the role and importance of sleep, a healthy diet, and physical exercise. An agile, healthy brain is not only less prone to age-related decline, it can also conquer stress, anxiety, and the risk of depression. Keep challenging your mind in new ways with The Brain Fitness Book and maintain your brain.

*The Human Brain* Academic Press

An eye-opening game-changer of a book that sheds new light on how horses learn, think, perceive, and perform, and explains how to work with the horse's

brain instead of against it. In this illuminating book, brain scientist and horsewoman Janet Jones describes human and equine brains working together. Using plain language, she explores the differences and similarities between equine and human ways of negotiating the world. Mental abilities—like seeing, learning, fearing, trusting, and focusing—are discussed from both human and horse perspectives. Throughout, true stories of horses and handlers attempting to understand each other—sometimes successfully, sometimes not—help to illustrate the principles. Horsemanship of every kind depends on mutual interaction between equine and human brains. When we understand the function of both, we can learn to communicate with horses on their terms instead of ours. By meeting horses halfway, we achieve many goals. We improve performance. We save valuable training time. We develop much deeper bonds with our horses. We handle them with insight and kindness instead of force or command. We comprehend their misbehavior in ways that allow solutions. We reduce the human mistakes we often make while working with them. Instead of working against the horse's brain, expecting him to function in unnatural and counterproductive ways, this book provides the information needed to ride with the horse's brain. Each principle is applied to real everyday issues in the arena or on the trail, often illustrated with true stories from the author's horse training experience. *Horse Brain, Human Brain* offers revolutionary ideas that should be considered by anyone who works with horses.

**Magnetic Source Imaging of the Human Brain** Penguin

Foundational studies of the activities of

spiking neurons in the awake and behaving human brain and the insights they yield into cognitive and clinical phenomena. In the last decade, the synergistic interaction of neurosurgeons, engineers, and neuroscientists, combined with new technologies, has enabled scientists to study the awake, behaving human brain directly. These developments allow cognitive processes to be characterized at unprecedented resolution: single neuron activity. Direct observation of the human brain has already led to major insights into such aspects of brain function as perception, language, sleep, learning, memory, action, imagery, volition, and consciousness. In this volume, experts document the successes, challenges, and opportunity in an emerging field. The book presents methodological tutorials, with chapters on such topics as the surgical implantation of electrodes and data analysis techniques; describes novel insights into cognitive functions including memory, decision making, and visual imagery; and discusses insights into diseases such as epilepsy and movement disorders gained from examining single neuron activity. Finally, contributors consider future challenges, questions that are ripe for investigation, and exciting avenues for translational efforts. Contributors Ralph Adolphs, William S. Anderson, Arjun K. Bansal, Eric J. Behnke, Moran Cerf, Jonathan O. Dostrovsky, Emad N. Eskandar, Tony A. Fields, Itzhak Fried, Hagar Gelbard-Sagiv, C. Rory Goodwin, Clement Hamani, Chris Heller, Mojgan Hodaie, Matthew Howard III, William D. Hutchison, Matias Ison, Hiroto Kawasaki, Christof Koch, Rüdiger Köhling, Gabriel Kreiman, Michel Le Van Quyen, Frederick A. Lenz, Andres M. Lozano, Adam N. Mamelak, Clarissa Martinez-Rubio,

Florian Mormann, Yuval Nir, George Ojemann, Shaun R. Patel, Sanjay Patra, Linda Philpott, Rodrigo Quian Quiroga, Ian Ross, Ueli Rutishauser, Andreas Schulze-Bonhage, Erin M. Schuman, Demetrio Sierra-Mercado, Richard J. Staba, Nanthia Suthana, William Sutherling, Travis S. Tierney, Giulio Tononi, Oana Tudusciuc, Charles L. Wilson

### **Probing Cognition** Vintage

Popular for its highly visual and easy-to-follow approach, Nolte's *The Human Brain* helps demystify the complexities of the gross anatomy of the brain, spinal cord and brainstem. A clear writing style, interesting examples and visual cues bring this extremely complicated subject to life and more understandable. Get the depth of coverage you need with discussions on all key topics in functional neuroanatomy and neuroscience, giving you well-rounded coverage of this complex subject. Zero in on the key information you need to know with highly templated, concise chapters that reinforce and expand your knowledge. Develop a thorough, clinically relevant understanding through clinical examples providing a real-life perspective. Gain a greater understanding of every concept through a glossary of key terms that elucidates every part of the text; 3-dimensional brain. Acquaint yourself with the very latest advancements in the field with many illustrations using the most current neuroimaging techniques, reflecting recent developments and changes in understanding. Keep up with the latest knowledge in neural plasticity including formation, modification, and repair of connections, with coverage of learning and memory, as well as the coming revolution in ways to fix damaged nervous systems, trophic factors, stem cells, and more. **NEW!**



Gauge your mastery of the material and build confidence with over 100 multiple choice questions that provide effective chapter review and quick practice for your exams.

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