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# The Brain The Story Of You English Edition

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The Spike

The Human Brain Book

The Brain

Science Comics: The Brain

Livewired

Tales from Both Sides of the Brain

Brain

Tales From Beyond the Brain

The Idea of the Brain

Seven and a Half Lessons about the Brain

Evolution of the Brain: Creation of the Self

Book of the Brain and how it Works

Love on the Brain

Understanding the Brain: From Cells to Behavior to Cognition

Sum

Neuroanatomy Coloring Book

The Brain

Big Brain Book

Decisions, Uncertainty, and the Brain

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## CALLUM MIDDLETON

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**The Spike** Oxford University Press

At once funny, wistful and unsettling, *Sum* is a dazzling exploration of unexpected afterlives—each presented as a vignette that offers a stunning lens through which to see ourselves in the here and now. In one afterlife, you may find that God is the size of a microbe and unaware of your existence. In another version, you work as a background character in other people's dreams. Or you may find that God is a married couple, or that the universe is running backward, or that you are forced to live out your afterlife with annoying versions of who you could

have been. With a probing imagination and deep understanding of the human condition, acclaimed neuroscientist David Eagleman offers wonderfully imagined tales that shine a brilliant light on the here and now.

[The Human Brain Book](#) Penguin

Phineas Gage was truly a man with a hole in his head. Phineas, a railroad construction foreman, was blasting rock near Cavendish, Vermont, in 1848 when a thirteen-pound iron rod was shot through his brain. Miraculously, he survived to live another eleven years and become a textbook case in brain science. At the time, Phineas Gage seemed to completely recover from his accident. He could walk, talk, work, and travel, but he was changed. Gage "was no longer Gage," said his Vermont doctor, meaning that the old Phineas was dependable and well liked, and

the new Phineas was crude and unpredictable. His case astonished doctors in his day and still fascinates doctors today. What happened and what didn't happen inside the brain of Phineas Gage will tell you a lot about how your brain works and how you act human.

#### The Brain Penguin

Both of them suspected that something was wrong--terribly wrong--in the great medical research center where they worked. Both of them wondered why a beautiful young woman had died on the operating table and her brain secretly removed. Both of them found it impossible to explain the rash of female patients exhibiting bizarre mental breakdowns and shocking behavior. Both of them were placing their careers and very lives in deadly jeopardy as they penetrated the eerie inner sanctums of a medical world gone mad with technological power and the lust for more...

#### *Science Comics: The Brain* MIT Press

"Brings together the cognitive, the cultural, and the neurological in an elegant, compelling narrative. A revelatory work."--Oliver Sacks, M.D. The act of reading is so easily taken for granted that we forget what an astounding feat it is. How can a few black marks on white paper evoke an entire universe of meanings? It's even more amazing when we consider that we read using a primate brain that evolved to serve an entirely different purpose. In this riveting investigation, Stanislas Dehaene, author of *How We Learn*, explores every aspect of this human invention, from its origins to its neural underpinnings. A world authority on the subject, Dehaene reveals the hidden logic of spelling, describes pioneering research on how we process languages, and takes us

into a new appreciation of the brain and its wondrous capacity to adapt.

#### *Livewired* Canongate Books

"Tell the doctor where it hurts." It sounds simple enough, unless the problem affects the very organ that produces awareness and generates speech. What is it like to try to heal the body when the mind is under attack? In this book, Dr. Allan Ropper and Brian Burrell take the reader behind the scenes at Harvard Medical School's neurology unit to show how a seasoned diagnostician faces down bizarre, life-altering afflictions. Like Alice in Wonderland, Dr. Ropper inhabits a world where absurdities abound: • A figure skater whose body has become a ticking time-bomb • A salesman who drives around and around a traffic rotary, unable to get off • A college quarterback who can't stop calling the same play • A child molester who, after falling on the ice, is left with a brain that is very much dead inside a body that is very much alive • A mother of two young girls, diagnosed with ALS, who has to decide whether a life locked inside her own head is worth living How does one begin to treat such cases, to counsel people whose lives may be changed forever? How does one train the next generation of clinicians to deal with the moral and medical aspects of brain disease? Dr. Ropper and his colleague answer these questions by taking the reader into a rarified world where lives and minds hang in the balance.

#### *Tales from Both Sides of the Brain* Vintage

New York Times bestseller • Finalist for the Pulitzer Prize "This is a book to shake up the world." —Ann Patchett Nicholas Carr's bestseller *The Shallows* has become a foundational book in one of the most important debates of our time: As we enjoy the

internet's bounties, are we sacrificing our ability to read and think deeply? This 10th-anniversary edition includes a new afterword that brings the story up to date, with a deep examination of the cognitive and behavioral effects of smartphones and social media.

**Brain** Magination Press

The story of a neural impulse and what it reveals about how our brains work We see the last cookie in the box and think, can I take that? We reach a hand out. In the 2.1 seconds that this impulse travels through our brain, billions of neurons communicate with one another, sending blips of voltage through our sensory and motor regions. Neuroscientists call these blips "spikes." Spikes enable us to do everything: talk, eat, run, see, plan, and decide. In *The Spike*, Mark Humphries takes readers on the epic journey of a spike through a single, brief reaction. In vivid language, Humphries tells the story of what happens in our brain, what we know about spikes, and what we still have left to understand about them. Drawing on decades of research in neuroscience, Humphries explores how spikes are born, how they are transmitted, and how they lead us to action. He dives into previously unanswered mysteries: Why are most neurons silent? What causes neurons to fire spikes spontaneously, without input from other neurons or the outside world? Why do most spikes fail to reach any destination? Humphries presents a new vision of the brain, one where fundamental computations are carried out by spontaneous spikes that predict what will happen in the world, helping us to perceive, decide, and react quickly enough for our survival. Traversing neuroscience's expansive terrain, *The Spike* follows a single electrical response to illuminate how our

extraordinary brains work.

**Tales From Beyond the Brain** W. W. Norton & Company

How hormonal signals in one small structure of the brain—the hypothalamus—govern our physiology and behavior. As human beings, we prefer to think of ourselves as reasonable. But how much of what we do is really governed by reason? In this book, Gareth Leng considers the extent to which one small structure of the neuroendocrine brain—the hypothalamus—influences what we do, how we love, and who we are. The hypothalamus contains a large variety of neurons. These communicate not only through neurotransmitters, but also through peptide signals that act as hormones within the brain. While neurotransmitter signals tend to be ephemeral and confined by anatomical connectivity, the hormone signals that hypothalamic neurons generate are potent, wide-reaching, and long-lasting. Leng explores the evolutionary origins of these remarkable neurons, and where the receptors for their hormone signals are found in the brain. By asking how the hypothalamic neurons and their receptors are regulated, he explores how the hypothalamus links our passions with our reason. *The Heart of the Brain* shows in an accessible way how this very small structure is very much at the heart of what makes us human.

**The Idea of the Brain** St. Martin's Press

It's a wrinkly, spongy mass the size of a cauliflower that sits in our heads and controls everything we do! Welcome to the world of the brain... What is the brain made of? How does it work? Why do we need one at all? Discover the answers to these questions and much more in this fun, fact-packed introduction to the brain. Filled with colorful illustrations and bite-sized chunks of

information, this book covers everything from the anatomy of the brain and nervous system to how information is collected and sent around the body. Other topics include how we learn, memory, thinking, emotions, animal brains, sleep, and even questions about the brain that are yet to be answered. With entertaining illustrated characters, clear diagrams, and fascinating photographs, children will love learning about their minds and this all-important organ. The Brain Book is an ideal introduction to the brain and nervous system. Perfect for budding young scientists, it is a great addition to any STEAM library.

**Seven and a Half Lessons about the Brain** MIT Press

"Fascinating. Doidge's book is a remarkable and hopeful portrait of the endless adaptability of the human brain."—Oliver Sacks, MD, author of *The Man Who Mistook His Wife for a Hat* What is neuroplasticity? Is it possible to change your brain? Norman Doidge's inspiring guide to the new brain science explains all of this and more An astonishing new science called neuroplasticity is overthrowing the centuries-old notion that the human brain is immutable, and proving that it is, in fact, possible to change your brain. Psychoanalyst, Norman Doidge, M.D., traveled the country to meet both the brilliant scientists championing neuroplasticity, its healing powers, and the people whose lives they've transformed—people whose mental limitations, brain damage or brain trauma were seen as unalterable. We see a woman born with half a brain that rewired itself to work as a whole, blind people who learn to see, learning disorders cured, IQs raised, aging brains rejuvenated, stroke patients learning to speak, children with cerebral palsy learning to move with more grace, depression and anxiety disorders successfully treated, and

lifelong character traits changed. Using these marvelous stories to probe mysteries of the body, emotion, love, sex, culture, and education, Dr. Doidge has written an immensely moving, inspiring book that will permanently alter the way we look at our brains, human nature, and human potential.

Evolution of the Brain: Creation of the Self First Second Books

"Passionate and meticulous . . . [Ehrlich] delivers thought-provoking metaphors, unforgettable scenes and many beautifully worded phrases." —Benjamin Labatut, *The New York Times Book Review* One of *The Telegraph's* best books of the year The first major biography of the Nobel Prize-winning scientist who discovered neurons and transformed our understanding of the human mind—illustrated with his extraordinary anatomical drawings Unless you're a neuroscientist, Santiago Ramón y Cajal is likely the most important figure in the history of biology you've never heard of. Along with Charles Darwin and Louis Pasteur, he ranks among the most brilliant and original biologists of the nineteenth century, and his discoveries have done for our understanding of the human brain what the work of Galileo and Sir Isaac Newton did for our conception of the physical universe. He was awarded the Nobel Prize in 1906 for his lifelong investigation of the structure of neurons: "The mysterious butterflies of the soul," Cajal called them, "whose beating of wings may one day reveal to us the secrets of the mind." And he produced a dazzling oeuvre of anatomical drawings, whose alien beauty grace the pages of medical textbooks and the walls of museums to this day. Benjamin Ehrlich's *The Brain in Search of Itself* is the first major biography in English of this singular figure, whose scientific odyssey mirrored the rocky journey of his

beloved homeland of Spain into the twentieth century. Born into relative poverty in a mountaintop hamlet, Cajal was an enterprising and unruly child whose ambitions were both nurtured and thwarted by his father, a country doctor with a flinty disposition. A portrait of a nation as well a biography, *The Brain in Search of Itself* follows Cajal from the hinterlands to Barcelona and Madrid, where he became an illustrious figure—resisting and ultimately transforming the rigid hierarchies and underdeveloped science that surrounded him. To momentous effect, Cajal devised a theory that was as controversial in his own time as it is universal in ours: that the nervous system is comprised of individual cells with distinctive roles, just like any other organ in the body. In one of the greatest scientific rivalries in history, he argued his case against Camillo Golgi and prevailed. In our age of neuro-imaging and investigations into the neural basis of the mind, Cajal is the artistic and scientific forefather we must get to know. *The Brain in Search of Itself* is at once the story of how the brain as we know it came into being and a finely wrought portrait of an individual as fantastical and complex as the subject to which he devoted his life.

#### Book of the Brain and how it Works Penguin

Locked in the silence and darkness of your skull, your brain fashions the rich narratives of your reality and your identity. Join renowned neuroscientist David Eagleman for a journey into the questions at the mysterious heart of our existence. What is reality? Who are “you”? How do you make decisions? Why does your brain need other people? How is technology poised to change what it means to be human? In the course of his investigations, Eagleman guides us through the world of extreme

sports, criminal justice, facial expressions, genocide, brain surgery, gut feelings, robotics, and the search for immortality. Strap in for a whistle-stop tour into the inner cosmos. In the infinitely dense tangle of billions of brain cells and their trillions of connections, something emerges that you might not have expected to see in there: you. This is the story of how your life shapes your brain, and how your brain shapes your life. (A companion to the six-part PBS series. Color illustrations throughout.)

#### **Love on the Brain** W. W. Norton & Company

'This is the story of how your life shapes your brain, and how your brain shapes your life.' Join renowned neuroscientist David Eagleman on a whistle-stop tour of the inner cosmos. It's a journey that will take you into the world of extreme sports, criminal justice, genocide, brain surgery, robotics, and the search for immortality. On the way, amidst the infinitely dense tangle of brain cells and their trillions of connections, something emerges that you might not have expected to see: you.

#### **Understanding the Brain: From Cells to Behavior to Cognition** Catapult

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 illustrations 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? 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 quickly. Now in its third edition, *The Human Brain Book* provides an up-to-date guide to one of science's most exciting frontiers. With its coverage of more than 50 brain-related diseases and disorders--from strokes to brain tumors and schizophrenia--it is also an essential manual for students and healthcare professionals.

*Sum* Vintage

If the conscious mind—the part you consider to be you—is just the tip of the iceberg, what is the rest doing? In this sparkling and provocative new book, the renowned neuroscientist David Eagleman navigates the depths of the subconscious brain to illuminate surprising mysteries: Why can your foot move halfway to the brake pedal before you become consciously aware of danger ahead? Why do you hear your name being mentioned in a conversation that you didn't think you were listening to? What do Ulysses and the credit crunch have in common? Why did Thomas Edison electrocute an elephant in 1916? Why are people whose names begin with J more likely to marry other people whose names begin with J? Why is it so difficult to keep a secret? And how is it possible to get angry at yourself—who, exactly, is mad at whom? Taking in brain damage, plane spotting, dating, drugs, beauty, infidelity, synesthesia, criminal law, artificial intelligence, and visual illusions, *Incognito* is a thrilling subsurface exploration of the mind and all its contradictions.

*Neuroanatomy Coloring Book* Farrar, Straus and Giroux

Locked in the silence and darkness of your skull, your brain fashions the rich narratives of your reality and your identity. Join renowned neuroscientist David Eagleman for a journey into the questions at the mysterious heart of our existence. What is reality? Who are “you”? How do you make decisions? Why does your brain need other people? How is technology poised to change what it means to be human? In the course of his investigations, Eagleman guides us through the world of extreme sports, criminal justice, facial expressions, genocide, brain surgery, gut feelings, robotics, and the search for immortality. Strap in for a whistle-stop tour into the inner cosmos. In the infinitely dense tangle of billions of brain cells and their trillions of connections, something emerges that you might not have expected to see in there: you. This is the story of how your life shapes your brain, and how your brain shapes your life. (A companion to the six-part PBS series. Color illustrations throughout.)

*The Brain* Yale University Press

"This visually astonishing story takes children on a journey into and through the brain. Simple but beautifully illustrated metaphors explain the different jobs that our brains do, and how they use brain cells to accomplish them. From the senses to sleep, memories to making decisions, this book brings the wonder of brains and brain science to life"--Publisher's description.

*Big Brain Book* Princeton University Press

A mad scientist and his zombie assistant kidnap Fahama and before he removes her brain, he teaches her all about how the brain works.

*Decisions, Uncertainty, and the Brain* Harper Collins

An examination of what makes us human and unique among all creatures—our brains. No reader curious about our “little grey cells” will want to pass up Harvard neuroscientist John E. Dowling’s brief introduction to the brain. In this up-to-date revision of his 1998 book *Creating Mind*, Dowling conveys the essence and vitality of the field of neuroscience—examining the progress we’ve made in understanding how brains work, and shedding light on discoveries having to do with aging, mental illness, and brain health. The first half of the book provides the nuts-and-bolts necessary for an up-to-date understanding of the brain. Covering the general organization of the brain, early

chapters explain how cells communicate with one another to enable us to experience the world. The rest of the book touches on higher-level concepts such as vision, perception, language, memory, emotion, and consciousness. Beautifully illustrated and lucidly written, this introduction elegantly reveals the beauty of the organ that makes us uniquely human.

**The Brain Book** QuickRead.com

This volume describes the new field of cognitive neuroscience - the study of what happens in the brain when we perceive, think, reason, remember, and act. Focusing on the human brain, Passingham looks at the most recent research in the field, the modern brain imaging technologies, and what the images can and can't tell us.