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Music, Language, and the Brain May 04 2020 In the first comprehensive study of the relationship between music and language from the standpoint of cognitive neuroscience, Aniruddh D. Patel challenges the widespread belief that music and language are processed independently. Since Plato's time, the relationship between music and language has attracted interest and debate from a wide range of thinkers. Recently, scientific research on this topic has been growing rapidly, as scholars from diverse disciplines, including linguistics, cognitive science, music cognition, and neuroscience are drawn to the music-language interface as one way to explore the extent to which different mental abilities are processed by separate brain mechanisms. Accordingly, the relevant data and theories have been spread across a range of disciplines. This volume provides the first synthesis, arguing that music and language share deep and critical connections, and that comparative research provides a powerful way to study the cognitive and neural mechanisms underlying these uniquely human abilities. Winner of the 2008 ASCAP Deems Taylor Award.

White Noise Jul 26 2019 A brilliant satire of mass culture and the numbing effects of technology, White Noise tells the story of Jack Gladney, a teacher of Hitler studies at a liberal arts college in Middle America. Jack and his fourth wife, Babette, bound by their love, fear of death, and four ultramodern offspring, navigate the rocky passages of family life to the background babble of brand-name consumerism. Then a lethal black chemical cloud, unleashed by an industrial accident, floats over there lives, an "airborne toxic event" that is a more urgent and visible version of the white noise engulfing the Gladneys—the radio transmissions, sirens, microwaves, and TV murmurings that constitute the music of American magic and dread.

Foundation of Digital Badges and Micro-Credentials Apr 02 2020 This edited volume provides insight into how digital badges may enhance formal, non-formal and informal education by focusing on technical design issues including organizational requirements, learning and instructional design, as well as deployment. It features current research exploring the theoretical foundation and empirical evidence of the utilization of digital badges as well as case studies that describe current practices and experiences in the use of digital badges for motivation, learning, and instruction in K-12, higher education, workplace learning, and further education settings.

The Teacher Wars Nov 29 2019 NEW YORK TIMES BESTSELLER • A groundbreaking history of 175 years of American education that brings the lessons of the past to bear on the dilemmas we face today—and brilliantly illuminates the path forward for public schools. "[A] lively account." —New York Times Book Review In The Teacher Wars, a rich, lively, and unprecedented history of public school teaching, Dana Goldstein reveals that teachers have been embattled for nearly two centuries. She uncovers the surprising roots of hot button issues, from teacher tenure to charter schools, and finds that recent popular ideas to improve schools—instituting merit pay, evaluating teachers by student test scores, ranking and firing veteran teachers, and recruiting "elite" graduates to teach—are all approaches that have been tried in

the past without producing widespread change.

Neuroscience and the Law Jun 28 2022 A report on an invitational meeting convened by the American Association for the Advancement of Science and the Dana Foundation.

Neuroethics Oct 21 2021 This volume contains the proceedings of a two-day multidisciplinary conference on the ethical implications of brain research organized by Stanford University and the University of California, San Francisco. Leaders in neuroscience, journalism, law, and philosophy, among other fields, engaged in a freewheeling debate on the social and individual effects of the research. Steven Marcus has edited their formal and informal deliberations to present a compelling first-hand account of the proceedings, providing a highly readable front-row seat about the first-ever symposium on neuroethics.

The Book of Why Jun 04 2020 A Turing Award-winning computer scientist and statistician shows how understanding causality has revolutionized science and will revolutionize artificial intelligence "Correlation is not causation." This mantra, chanted by scientists for more than a century, has led to a virtual prohibition on causal talk. Today, that taboo is dead. The causal revolution, instigated by Judea Pearl and his colleagues, has cut through a century of confusion and established causality -- the study of cause and effect -- on a firm scientific basis. His work explains how we can know easy things, like whether it was rain or a sprinkler that made a sidewalk wet; and how to answer hard questions, like whether a drug cured an illness. Pearl's work enables us to know not just whether one thing causes another: it lets us explore the world that is and the worlds that could have been. It shows us the essence of human thought and key to artificial intelligence. Anyone who wants to understand either needs The Book of Why.

Dirty Minds Jun 24 2019 Draws on the latest findings beyond cultural perceptions to reveal how the brain processes love and interpersonal relationships, addressing such questions as the practicality of monogamy, and whether or not the "seven-year itch" actually exists.

The Brain-Targeted Teaching Model for 21st-Century Schools Nov 09 2020 This proven model for applying brain research for more effective instruction shows how to implement educational and cognitive neuroscience principles to classroom settings through a pedagogical framework.

The Dana Guide to Brain Health Mar 02 2020 A reference guide to the brain covers its development and function and describes a variety of neurological and psychiatric disorders, along with their symptoms, diagnosis, and treatment options.

This Is Your Brain on Sex Jan 12 2021 Draws on the latest neuroscientific findings beyond cultural perceptions to reveal how the brain processes love and interpersonal relationships, addressing such questions as the practicality of monogamy, the relationship between love and hate and whether or not the "seven-year itch" actually exists.

Tales from Both Sides of the Brain Nov 21 2021 Michael S. Gazzaniga, one of the most important neuroscientists of the twentieth century, gives us an exciting behind-the-scenes look at his seminal work on that unlikely couple, the right and left brain. Foreword by Steven Pinker. In the mid-twentieth century, Michael S. Gazzaniga, “the father of cognitive neuroscience,” was part of a team of pioneering neuroscientists who developed the now foundational split-brain brain theory: the notion that the right and left hemispheres of the brain can act independently from one another and have different strengths. In Tales from Both Sides of the Brain, Gazzaniga tells the impassioned story of his life in science and his decades-long journey to understand how the separate spheres of our brains communicate and miscommunicate with their separate agendas. By turns humorous and moving, Tales from Both Sides of the Brain interweaves Gazzaniga’s scientific achievements with his reflections on the challenges and thrills of working as a scientist. In his engaging and accessible style, he paints a vivid portrait not only of his discovery of split-brain theory, but also of his comrades in arms—the many patients, friends, and family who have accompanied him on this wild ride of intellectual discovery.

Thirty Million Words Jan 30 2020 The founder and director of the Thirty Million Words Initiative, Professor Dana Suskind, explains why the most important—and astoundingly simple—thing you can do for your child’s future success in life is to to talk to them. What nurtures the brain to optimum intelligence and stability? It is a secret hiding in plain sight: the most important thing we can do for our children is to have conversations with them. The way you talk with your growing child literally builds his or her brain. Parent talk can drastically improve school readiness and lifelong learning in everything from math to art. Indeed, parent–child talk is a fundamental, critical factor in building grit, self-control, leadership skills, and generosity. It is crucial to making the most in life of the luck you have with your genes. This landmark account of a new scientific perspective describes what works and what doesn't (baby talk is fine; relentless correction isn't). Discover how to create the best "language environments" for children by following the simple structure of the Three Ts: Tune In; Talk More; Take Turns. Dr. Suskind and her colleagues around the country have worked with thousands of families; now their insights and successful, measured approaches are available to all. This is the first book to reveal how and why the first step in nurturing successful lives is talking to children in ways that build their brains. Your family—and our nation—need to know. *Nominated for the Books for a Better Life Award*

Neuroscience of Creativity May 28 2022 Experts describe current perspectives and experimental approaches to understanding the neural bases of creativity. This volume offers a comprehensive overview of the latest neuroscientific approaches to the scientific study of creativity. In chapters that progress logically from neurobiological fundamentals to systems neuroscience and neuroimaging, leading scholars describe the latest theoretical, genetic, structural, clinical, functional, and applied research on the neural bases of creativity. The treatment is both broad and in depth, offering a range of neuroscientific perspectives with detailed coverage by experts in each area. The contributors discuss such issues as the heritability of creativity; creativity in patients with brain damage, neurodegenerative conditions, and

mental illness; clinical interventions and the relationship between psychopathology and creativity; neuroimaging studies of intelligence and creativity; the neuroscientific basis of creativity-enhancing methodologies; and the information-processing challenges of viewing visual art. Contributors Baptiste Barbot, Mathias Benedek, David Q. Beversdorf, Aaron P. Blaisdell, Margaret A. Boden, Dorret I. Boomsma, Adam S. Bristol, Shelley Carson, Marleen H. M. de Moor, Andreas Fink, Liane Gabora, Dennis Garlick, Elena L. Grigorenko, Richard J. Haier, Rex E. Jung, James C. Kaufman, Helmut Leder, Kenneth J. Leising, Bruce L. Miller, Apara Ranjan, Mark P. Roeling, W. David Stahlman, Mei Tan, Pablo P. L. Tinio, Oshin Vartanian, Indre V. Viskontas, Dahlia W. Zaidel

Learning, Arts, and the Brain Nov 02 2022

American Normal Feb 10 2021 Asperger's Syndrome, often characterized as a form of "high-functioning autism," is a poorly defined and little-understood neurological disorder. The people who suffer from the condition are usually highly intelligent, and as often as not capable of extraordinary feats of memory, calculation, and musicianship. In this wide-ranging report on Asperger's, Lawrence Osborne introduces us to those who suffer from the syndrome and to those who care for them as patients and as family. And, more importantly, he speculates on how, with our need to medicate and categorize every conceivable mental state, we are perhaps adding to their isolation, their sense of alienation from the "normal." -This is a book about the condition, and the culture surrounding Asperger's Syndrome as opposed to a guide about how to care for your child with Aspergers. -Examines American culture and the positive and negative perspectives on the condition. Some parents hope their child will be the next Glenn Gould or Bill Gates, others worry that their child is abnormal and overreact.

Madness and Memory Aug 07 2020 The author, a 1997 recipient of the Noble Prize in medicine, describes the years he spent researching and demonstrating how the infectious proteins known as prions were responsible for brain diseases and how his theory has now become widely accepted in the science establishment.

The Teenage Brain May 16 2021 A New York Times Bestseller Renowned neurologist Dr. Frances E. Jensen offers a revolutionary look at the brains of teenagers, dispelling myths and offering practical advice for teens, parents and teachers. Dr. Frances E. Jensen is chair of the department of neurology in the Perelman School of Medicine at the University of Pennsylvania. As a mother, teacher, researcher, clinician, and frequent lecturer to parents and teens, she is in a unique position to explain to readers the workings of the teen brain. In The Teenage Brain, Dr. Jensen brings to readers the astonishing findings that previously remained buried in academic journals. The root myth scientists believed for years was that the adolescent brain was essentially an adult one, only with fewer miles on it. Over the last decade, however, the scientific community has learned that the teen years encompass vitally important stages of brain development. Samples of some of the most recent findings include: Teens are better learners than adults because their brain cells more readily "build" memories. But this heightened adaptability can be hijacked by addiction, and the adolescent brain can become addicted more strongly and for a longer duration than the adult brain. Studies show that girls' brains are a full two years more mature than boys' brains in the mid-teens, possibly explaining differences seen in the classroom and in social behavior. Adolescents may not be as resilient to the effects of drugs as we thought. Recent experimental and human studies show that the occasional use of marijuana, for instance, can cause lingering memory problems even days after smoking, and that long-term use of pot impacts later adulthood IQ. Multi-tasking causes divided attention and has been shown to reduce learning ability in the teenage brain. Multi-tasking also has some addictive qualities, which may result in habitual short attention in teenagers. Emotionally stressful situations may impact the adolescent more than it would affect the adult: stress can have permanent effects on mental health and can to lead to higher risk of developing neuropsychiatric disorders such as depression. Dr. Jensen gathers what we’ve discovered about adolescent brain function, wiring, and capacity and explains the science in the contexts of everyday learning and multitasking, stress and memory, sleep, addiction, and decision-making. In this groundbreaking yet accessible book, these findings also yield practical suggestions that will help adults and teenagers negotiate the mysterious world of adolescent development.

The Brain That Changes Itself Sep 19 2021 “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.

Emotional Memory Across the Adult Lifespan Jun 16 2021 Though many factors can influence the likelihood that we remember a past experience, one critical determinant is whether the experience caused us to have an emotional response. Emotional experiences are more likely to be remembered than nonemotional ones, and over the past couple of decades there has been an increased interest in understanding how emotion conveys

this memory benefit. This book begins with a broad overview of emotion, memory, and the neural underpinnings of each, providing the reader with an appreciation of the complex interplay between emotion and memory. It then examines how emotion influences young adults' abilities to store information temporarily, or over the long term. It explains emotion's influence on the memory processes that young adults use consciously and on the processes that guide young adults' preferences and actions without their awareness. This book then moves on to describe how each of these influences of emotion are affected by the aging process, and by age-related disease, providing the reader with a lifespan perspective of emotional memory. Within each of the domains covered, the book integrates research from cognitive psychology, cognitive neuroscience, and neuropsychological perspectives, examining both the behavioral and thought processes that lead to emotion's effects on memory and also the underlying brain processes that guide those influences of emotion. This book will be of interest to researchers and graduate students in memory, emotion, and aging, working in the fields of cognitive psychology, cognitive or affective neuroscience, and developmental or lifespan psychology.

Law and Neuroscience Oct 01 2022 The implications for law of new neuroscientific techniques and findings are now among the hottest topics in legal, academic, and media venues. Law and Neuroscience—a collaboration of professors in law, neuroscience, and biology—is the first and still only coursebook to chart this new territory, providing the world's most comprehensive collection of neurolaw materials. This text will be of interest to many professors teaching Criminal Law and Torts courses, who would like to incorporate the most current thinking on how biology intersects with the law. New to the Second Edition: Extensively revised chapters, updated with new findings and materials. New chapter on Aging Brains Hundreds of new references and citations to recent developments. Over 600 new references and citations to recent developments, with 260 new readings, including 27 new case selections Highly current material; 45% of cases and publications in the Second Edition were published since the first edition in 2014 Professors and students will benefit from: Technical subjects explained in an accessible manner Extensive glossary of key terms Photos and illustrations enliven the text Professors of any background can teach this course

The Autistic Brain Jan 24 2022 Offers the latest research and science on autism, including new neuroimaging and genetic research that provide new theories on what causes autism spectrum disorders as well as new ways to treat and diagnose them.

The Art of Risk Sep 07 2020 Are risk-takers born or made? Why are some more willing to go out on a limb (so to speak) than others? How do we weigh the value of opportunities large or small that may have the potential to change the course of our lives? These are just a few of the questions that author Kayt Sukel tackles, applying the latest research in neuroscience and psychology to compelling real-world situations. Building on a portfolio of work that has appeared in such publications as Scientific American, Atlantic Monthly, The Washington Post, and more, Sukel offers an in-depth look at risk-taking and its role in the many facets of life that resonates on a personal level. Smart, progressive, and truly enlightening, The Art of Risk blends riveting case studies and hard-hitting science to explore risk-taking and how it impacts decision-making in work, play, love, and life, providing insight in understanding individual behavior and furthering personal success.

Why Torture Doesn't Work Dec 23 2021 Besides being cruel and inhumane, torture does not work the way torturers assume it does. As Shane O'Mara's account of the neuroscience of suffering reveals, extreme stress creates profound problems for memory, mood, and thinking, and sufferers predictably produce information that is deeply unreliable, or even counterproductive and dangerous.

You've Got Some Explaining to Do Feb 22 2022 What are people who read opinion-page articles looking for? How can you reach people who read general-interest magazines? Hint: It's not the same as your colleagues or science journals. This compact book offers the reasons and information that can help scientific writers adopt new habits to be successful and happy writing for a non-science audience. Go ahead and write journal-style for science journals and colleagues, says longtime science editor Jane Nevins, but you'll need to try different styles to reach a different audience. The book is divided into three parts: The Meet-up, Simple Fixes, and Science and Style. In The Meet-up, Nevins describes the different venues for lay writing, from opinion pages to popular magazines, and what readers of each expect and respond to best. In Simple Fixes, she shows how jargon, "cross-over words," and hackneyed expressions can be remedied, clearing away confusion for your readers. In Science and Style, she discusses what to put first, how to quote and paraphrase in lay copy, and what to leave out. Throughout You've Got Some Explaining to Do, Nevins gives concrete, specific examples tied to neuroscience. The author, who served as the first editor in chief of the Dana Press, brings more than 20 years of experience in translating neuroscience to lay readers. "No one is better at helping one learn to write for the non-professional public, as I can personally testify, than Jane Nevins."-Nobel laureate Eric R. Kandel, M.D., Director, Kavli Institute for Brain Science, Columbia University College of Physicians and Scientists.

The Dana Foundation's Cerebrum Aug 31 2022

Beyond Boundaries Sep 27 2019 A pioneering neuroscientist shows how the long-sought merger of brains with machines is about to become a paradigm-shifting reality Imagine living in a world where people use their computers, drive their cars, and communicate with one another simply by thinking. In this stunning and inspiring work, Duke University neuroscientist Miguel Nicolelis shares his revolutionary insights into how the brain creates thought and the human sense of self—and how this might be augmented by machines, so that the entire universe will be within our reach. Beyond Boundaries draws on Nicolelis's ground-breaking research with monkeys that he taught to control the movements of a robot located halfway around the globe by using brain signals alone. Nicolelis's work with primates has uncovered a new method for capturing brain function—by recording rich neuronal symphonies rather than the activity of single neurons. His lab is now paving the way for a new treatment for Parkinson's, silk-thin exoskeletons to

grant mobility to the paralyzed, and breathtaking leaps in space exploration, global communication, manufacturing, and more. Beyond Boundaries promises to reshape our concept of the technological future, to a world filled with promise and hope.

Science and Human Experience Oct 09 2020 Does science have limits? Where does order come from? Can we understand consciousness? Written by Nobel Laureate Leon N. Cooper, this book places pressing scientific questions in the broader context of how they relate to human experience. Widely considered to be a highly original thinker, Cooper has written and given talks on a large variety of subjects, ranging from the relationship between art and science, possible limits of science, to the relevance of the Turing test. These essays and talks have been brought together for the first time in this fascinating book, giving readers an opportunity to experience Cooper's unique perspective on a range of subjects. Tackling a diverse spectrum of topics, from the conflict of faith and science to whether understanding neural networks could lead to machines that think like humans, this book will captivate anyone interested in the interaction of science with society.

The Jimmy Fund of Dana-Farber Cancer Institute Mar 14 2021 In May 1948, a nationwide radio audience first heard a twelve-year-old cancer patient known only as "Jimmy" as he was visited bedside by members of his beloved Boston Braves baseball team. An appeal for support followed, and since that moment, the Jimmy Fund has helped physician-scientists and staff at Boston's world-renowned Dana-Farber Cancer Institute provide the best cancer treatment available to children and adults today while developing cures for tomorrow. The Jimmy Fund of Dana-Farber Cancer Institute documents the history of "New England's favorite charity" from the 1940s and 1950s, when celebrities such as Bob Hope and Jimmy Durante drummed up support for institute founder Dr. Sidney Farber, to the fund's ongoing relationship with the Boston Red Sox and such baseball stars as Ted Williams. Readers will discover how these efforts-and the generations of New Englanders plunking coins into movie canisters or biking, golfing, skiing, and walking for the cause-have helped raise more than $200 million and save countless lives. The Jimmy Fund of Dana-Farber Cancer Institute captures each step of this remarkable journey, including the uplifting 1998 return of Einar "Jimmy" Gustafson to Dana-Farber after fifty years of anonymity and presumed death.

Reductionism in Art and Brain Science Jul 06 2020 Are art and science separated by an unbridgeable divide? Can they find common ground? In this new book, neuroscientist Eric R. Kandel, whose remarkable scientific career and deep interest in art give him a unique perspective, demonstrates how science can inform the way we experience a work of art and seek to understand its meaning. Kandel illustrates how reductionism—the distillation of larger scientific or aesthetic concepts into smaller, more tractable components—has been used by scientists and artists alike to pursue their respective truths. He draws on his Nobel Prize-winning work revealing the neurobiological underpinnings of learning and memory in sea slugs to shed light on the complex workings of the mental processes of higher animals. In Reductionism in Art and Brain Science, Kandel shows how this radically reductionist approach, applied to the most complex puzzle of our time—the brain—has been employed by modern artists who distill their subjective world into color, form, and light. Kandel demonstrates through bottom-up sensory and top-down cognitive functions how science can explore the complexities of human perception and help us to perceive, appreciate, and understand great works of art. At the heart of the book is an elegant elucidation of the contribution of reductionism to the evolution of modern art and its role in a monumental shift in artistic perspective. Reductionism steered the transition from figurative art to the first explorations of abstract art reflected in the works of Turner, Monet, Kandinsky, Schoenberg, and Mondrian. Kandel explains how, in the postwar era, Pollock, de Kooning, Rothko, Louis, Turrell, and Flavin used a reductionist approach to arrive at their abstract expressionism and how Katz, Warhol, Close, and Sandback built upon the advances of the New York School to reimagine figurative and minimal art. Featuring captivating drawings of the brain alongside full-color reproductions of modern art masterpieces, this book draws out the common concerns of science and art and how they illuminate each other.

Beyond the Self Jul 30 2022 A Buddhist monk and esteemed neuroscientist discuss their converging—and diverging—views on the mind and self, consciousness and the unconscious, free will and perception, and more Buddhism shares with science the task of examining the mind empirically; it has pursued, for two millennia, direct investigation of the mind through penetrating introspection. Neuroscience, on the other hand, relies on third-person knowledge in the form of scientific observation. In this book, Matthieu Ricard, a Buddhist monk trained as a molecular biologist, and Wolf Singer, a distinguished neuroscientist—close friends, continuing an ongoing dialogue—offer their perspectives on the mind, the self, consciousness, the unconscious, free will, epistemology, meditation, and neuroplasticity. Ricard and Singer’s wide-ranging conversation stages an enlightening and engaging encounter between Buddhism’s wealth of experiential findings and neuroscience’s abundance of experimental results. They discuss, among many other things, the difference between rumination and meditation (rumination is the scourge of meditation, but psychotherapy depends on it); the distinction between pure awareness and its contents; the Buddhist idea (or lack of one) of the unconscious and neuroscience’s precise criteria for conscious and unconscious processes; and the commonalities between cognitive behavioral therapy and meditation. Their views diverge (Ricard asserts that the third-person approach will never encounter consciousness as a primary experience) and converge (Singer points out that the neuroscientific understanding of perception as reconstruction is very like the Buddhist all-discriminating wisdom) but both keep their vision trained on understanding fundamental aspects of human life.

If I Understood You, Would I Have this Look on My Face? Oct 28 2019 The actor and founder of the Alan Alda Center for Communicating Science traces his personal quest to understand how to relate and communicate better, from practicing empathy and using improv games to storytelling and developing better intuitive skills.

Defining Right and Wrong in Brain Science Apr 26 2022 Where is the line between instinct and free will in humans? How far can technology and medicine go to manipulate the brain? With every new discovery about the human mind, more and more questions emerge about the boundaries of consciousness, responsibility, and how far neuroscience research can go. The fledgling field of neuroethics has sought answers to these questions since the first formal neuroethics conference was held in 2002. This groundbreaking volume collects the expert and authoritative writings published since then that have laid the groundwork for this rapidly expanding debate. Defining Right and Wrong in Brain Science traverses the breadth of neuroethics, exploring six broad areas—including free will, moral responsibility, and legal responsibility; psychopharmacology; and brain injury and brain death—in thirty provocative articles. The scientific and ethical consequences of neuroscience research and technology are plumbed by leading thinkers and scientists, from Antonio Damasio's "The Neural Basics of Social Behavior: Ethical Implications" to "Monitoring and Manipulating Brain Function" by Martha J. Farah and Paul Root Wolpe. These and other in-depth chapters articulate the thought-provoking questions that emerge with every new scientific discovery and propose solutions that mediate between the freedom of scientific endeavor and the boundaries of ethical responsibility. As science races toward a future that is marked by startling new possibilities for our bodies and minds, Defining Right and Wrong in Brain Science is the definitive assessment of the ethical criteria guiding neuroscientists today.

Inside the Neolithic Mind: Consciousness, Cosmos, and the Realm of the Gods Dec 11 2020 An exploration of how brain structure and cultural content interacted in the Neolithic period 10,000 years ago to produce unique life patterns and belief systems. What do the headless figures found in the famous paintings at Catalhoyuk in Turkey have in common with the monumental tombs at Newgrange and Knowth in Ireland? How can the concepts of "birth," "death," and "wild" cast light on the archaeological enigma of the domestication of cattle? What generated the revolutionary social change that ended the Upper Palaeolithic? David Lewis-Williams's previous book, The Mind in the Cave, dealt with the remarkable Upper Palaeolithic paintings, carvings, and engravings of western Europe. Here Dr. Lewis-Williams and David Pearce examine the intricate web of belief, myth, and society in the succeeding Neolithic period, arguably the most significant turning point in all human history, when agriculture became a way of life and the fractious society that we know today was born. The authors focus on two contrasting times and places: the beginnings in the Near East, with its mud-brick and stone houses each piled on top of the ruins of another, and western Europe, with its massive stone monuments more ancient than the Egyptian pyramids. They argue that neurological patterns hardwired into the brain help explain the art and society that Neolithic people produced. Drawing on the latest research, the authors skillfully link material on human consciousness, imagery, and religious concepts to propose provocative new theories about the causes of an ancient revolution in cosmology and the origins of social complexity. In doing so they create a fascinating neurological bridge to the mysterious thought-lives of the past and reveal the essence of a momentous period in human history. 100 illustrations, 20 in color.

The Spinal Cord Mar 26 2022 Many hundreds of thousands suffer spinal cord injuries leading to loss of sensation and motor function in the body below the point of injury. Spinal cord research has made some significant strides towards new treatment methods, and is a focus of many laboratories worldwide. In addition, research on the involvement of the spinal cord in pain and the abilities of nervous tissue in the spine to regenerate has increasingly been on the forefront of biomedical research in the past years. The Spinal Cord, a collaboration with the Christopher and Dana Reeve Foundation, is the first comprehensive book on the anatomy of the mammalian spinal cord. Tens of thousands of articles and dozens of books are published on this subject each year, and a great deal of experimental work has been carried out on the rat spinal cord. Despite this, there is no comprehensive and authoritative atlas of the mammalian spinal cord. Almost all of the fine details of spinal cord anatomy must be searched for in journal articles on particular subjects. This book addresses this need by providing both a comprehensive reference on the mammalian spinal cord and a comparative atlas of both rat and mouse spinal cords in one convenient source. The book provides a descriptive survey of the details of mammalian spinal cord anatomy, focusing on the rat with many illustrations from the leading experts in the field and atlases of the rat and the mouse spinal cord. The rat and mouse spinal cord atlas chapters include photographs of Nissl stained transverse sections from each of the spinal cord segments (obtained from a single unfixed spinal cord), detailed diagrams of each of the spinal cord segments pictured, delineating the laminae of Rexed and all other significant neuronal groupings at each level and photographs of additional sections displaying markers such as acetylcholinesterase (AChE), calbindin, calretinin, choline acetlytransferase, neurofilament protein (SMI 32), enkephalin, calcitonin gene-related peptide (CGRP), and neuronal nuclear protein (NeuN). The text provides a detailed account of the anatomy of the mammalian spinal cord and surrounding musculoskeletal elements The major topics addressed are: development of the spinal cord; the gross anatomy of the spinal cord and its meninges; spinal nerves, nerve roots, and dorsal root ganglia; the vertebral column, vertebral joints, and vertebral muscles; blood supply of the spinal cord; cytoarchitecture and chemoarchitecture of the spinal gray matter; musculotopic anatomy of motoneuron groups; tracts connecting the brain and spinal cord; spinospinal pathways; sympathetic and parasympathetic elements in the spinal cord; neuronal groups and pathways that control micturition; the anatomy of spinal cord injury in experimental animals; The atlas of the rat and mouse spinal cord has the following features: Photographs of Nissl stained transverse sections from each of 34 spinal segments for the rat and mouse; Detailed diagrams of each of the 34 spinal segments for rat and mouse, delineating the laminae of Rexed and all other significant neuronal groupings at each level. ; Alongside each of the 34 Nissl stained segments, there are additional sections displaying markers such as acetylcholinesterase, calbindin, calretinin, choline acetlytransferase, neurofilament protein (SMI 32), and neuronal nuclear

protein (NeuN) All the major motoneuron clusters are identified in relation to the individual muscles or muscle groups they supply.

Deluxe Aug 26 2019 “With Deluxe: How Luxury Lost Its Luster, [Dana] Thomas—who has been the cultural and fashion writer for Newsweek in Paris for 12 years—has written a crisp, witty social history that’s as entertaining as it is informative.” —New York Times From the author of Fashionopolis: The Price of Fast Fashion and the Future of Clothes Once luxury was available only to the rarefied and aristocratic world of old money and royalty. It offered a history of tradition, superior quality, and a pampered buying experience. Today, however, luxury is simply a product packaged and sold by multibillion-dollar global corporations focused on growth, visibility, brand awareness, advertising, and, above all, profits. Award-winning journalist Dana Thomas digs deep into the dark side of the luxury industry to uncover all the secrets that Prada, Gucci, and Burberry don't want us to know. Deluxe is an uncompromising look behind the glossy façade that will enthrall anyone interested in fashion, finance, or culture.

Gray to Green Communities Apr 14 2021 US cities are faced with the joint challenge of our climate crisis and the lack of housing that is affordable and healthy. Our housing stock contributes significantly to the changing climate, with residential buildings accounting for 20 percent of greenhouse gas emissions. US housing is not only unhealthy for the planet, it is putting the physical and financial health of residents at risk. Our housing system means that a renter working 40 hours a week and earning minimum wage cannot afford a two-bedroom apartment in any US county. In Gray to Green Communities, green affordable housing expert Dana Bourland argues that we need to move away from a gray housing model to a green model, which considers the health and well-being of residents, their communities, and the planet. She demonstrates that we do not have to choose between protecting our planet and providing housing affordable to all. Bourland draws from her experience leading the Green Communities Program at Enterprise Community Partners, a national community development intermediary. Her work resulted in the first standard for green affordable housing which was designed to deliver measurable health, economic, and environmental benefits. The book opens with the potential of green affordable housing, followed by the problems that it is helping to solve, challenges in the approach that need to be overcome, and recommendations for the future of green affordable housing. Gray to Green Communities brings together the stories of those who benefit from living in green affordable housing and examples of Green Communities’ developments from across the country. Bourland posits that over the next decade we can deliver on the human right to housing while reaching a level of carbon emissions reductions agreed upon by scientists and demanded by youth. Gray to Green Communities will empower and inspire anyone interested in the future of housing and our planet.

Wednesday Is Indigo Blue Aug 19 2021 How the extraordinary multisensory phenomenon of synesthesia has changed our traditional view of the brain. A person with synesthesia might feel the flavor of food on her fingertips, sense the letter “J” as shimmering magenta or the number “5” as emerald green, hear and taste her husband's voice as buttery golden brown. Synesthetes rarely talk about their peculiar sensory gift—believing either that everyone else senses the world exactly as they do, or that no one else does. Yet synesthesia occurs in one in twenty people, and is even more common among artists. One famous synesthete was novelist Vladimir Nabokov, who insisted as a toddler that the colors on his wooden alphabet blocks were “all wrong.” His mother understood exactly what he meant because she, too, had synesthesia. Nabokov's son Dmitri, who recounts this tale in the afterword to this book, is also a synesthete—further illustrating how synesthesia runs in families. In Wednesday Is Indigo Blue, pioneering researcher Richard Cytowic and distinguished neuroscientist David Eagleman explain the neuroscience and genetics behind synesthesia's multisensory experiences. Because synesthesia contradicted existing theory, Cytowic spent twenty years persuading colleagues that it was a real—and important—brain phenomenon rather than a mere curiosity. Today scientists in fifteen countries are exploring synesthesia and how it is changing the traditional view of how the brain works. Cytowic and Eagleman argue that perception is already multisensory, though for most of us its multiple dimensions exist beyond the reach of consciousness. Reality, they point out, is more subjective than most people realize. No mere curiosity, synesthesia is a window on the mind and brain, highlighting the amazing differences in the way people see the world.

Everything Will Be Okay Jul 18 2021 THE INSTANT #1 NATIONAL BESTSELLER! Find your inspiration in this motivational book from the bestselling author of And the Good News Is… Lessons and Advice from the Bright Side, beloved co-host of Fox News' The Five and America's Newsroom. EVERYTHING WILL BE OKAY is a no-nonsense how-to guide to life for young women looking to reframe their thinking, to believe in themselves, to take risks, to understand their power, and to feel better overall through finding serenity and taking action. Young women seek out advice from Dana Perino every day—at work, through friends, and on social media. The story of her own quarter-life crisis, And the Good News Is… Lessons and Advice from the Bright Side, brought countless readers to her inbox looking for guidance. Through her mentorship program, "Minute Mentoring," Dana quickly realized that quarter-life crises have begun following young women well into their thirties. Many of them are distressed but conceal it with a brave face. Unfortunately, too much of that can be—and is—exhausting. To help address these challenges, EVERYTHING WILL BE OKAY covers such topics as: How to manage your relationships (colleagues, family, love)… How to be your best self on the job… How to gauge if you're on the right career path… How to transition from junior staffer to boss lady… How to solve the biggest problems you're facing… How to move past perceived obstacles… For everyone from the job-seeker fresh out of college to the ambitious career woman looking to make her next big jump up the ladder, EVERYTHING WILL BE OKAY has tips, advice, and reassurance for young women everywhere.

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