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The pioneering and creative brain surgeon recounts the course of his eventful life and career, detailing the drama and tensions of his endeavors, discoveries, and breakthroughs in neurology, neurophysiology, and neurosurgery The planning of this Study Week at the Pontifical Academy of Science from September 28 to October 4, 1964, began just two years before when the President, Professor Lemaitre, asked me if 1 would be responsible for a Study Week relating Psychology to what we may call the Neurosciences. 1 accepted this responsibility on the understanding that 1 could have as sistance from two colleagues in the Academy, Professors Heymans and Chagas. Besides participating in the Study Week they gave me much needed assistance and advice in the arduous and, at times, perplexing task that 1 had undertaken, and 1 gratefully acknowledge my indebtedness to them. Though there have been in recent years many symposia concerned with the so-called higher functions of the brain, for example with percep tion, learning and conditioning, and with the processing of information in the brain, there has to my knowledge been no symposium specifically with brain functions and consciousness since the memorable treating Laurentian Conference of 1953, which was later published in 1954 as the book, "Brain Mechanisms and Consciousness. Great Myths of the Brain introduces readers to the field of neuroscience by examining popular myths about the human brain. Explores commonly-held myths of the brain through the lens of scientific research, backing up claims with studies and other evidence from the literature Looks at enduring myths such as “Do we only use 10% of our brain?”, “Pregnant women lose their mind”, “Right-brained people are more creative” and many more. Delves into myths relating to specific brain disorders, including epilepsy, autism, dementia, and others Written engagingly and accessibly for students and lay readers alike, providing a unique introduction to the study of the brain Teaches readers how to spot neuro hype and neuro-nonsense claims in the media This book contains medical lectures and essays complied and written by the author. Epilepsy is a devastating group of neurological disorders characterized by periodic and unpredictable seizure activity in the brain. There is a critical need for new drugs and approaches given than at least one-third of all epilepsy patients are not made free of seizures by existing medications and become "medically refractory". Much of epilepsy research has focused on neuronal therapeutic targets, but current antiepileptic drugs often cause severe cognitive, developmental, and behavioral side effects. Recent findings indicate a critical contribution of astrocytes, star-shaped glial cells in the brain, to neuronal and network excitability and seizure activity. Furthermore, many important cellular and molecular changes occur in astrocytes in epileptic tissue in both humans and animal models of epilepsy. The goal of Astrocytes and Epilepsy is to comprehensively review exciting findings linking changes in astrocytes to functional changes responsible for epilepsy for the first time in book format. These insights into astrocyte contribution to seizure susceptibility indicate that astrocytes may represent an important new therapeutic target in the control of epilepsy. Astrocytes and Epilepsy includes background explanatory text on astrocyte morphology and physiology, epilepsy models and syndromes, and evidence from both human tissue studies and animal models linking functional changes in astrocytes to epilepsy. Beautifully labelled diagrams are presented and relevant figures from the literature are reproduced to elucidate key findings and concepts in this rapidly emerging field. Astrocytes and Epilepsy is written for neuroscientists, epilepsy researchers, astrocyte investigators as well as neurologists and other specialists caring for patients with epilepsy. Presents the first comprehensive book to synthesize historical and recent research on astrocytes and epilepsy into one coherent volume Provides a great resource on the field of astrocyte biology and astrocyte-neuron interactions Details potential therapeutic targets, including chapters on gap junctions, water and potassium channels, glutamate and adenosine metabolism, and inflammation Wilder Penfield (1891–1976) is famous for his contributions to the understanding of epilepsy and for his discoveries of the relationship between the structure and function of the human brain. His operations, which involved stimulating the cerebral cortex of awake patients with a fine electrode, assured the complete removal of lesions that caused epilepsy. Less widely known is his use of the same technique to localize the interpretation of language, the recording of memories, and the ability to interpret the present in light of past experience. Radical Treatment follows the evolution of Penfield's thinking from his description of brain scars at the beginning of his career to his last thoughts on the human condition. Through a review of his clinical charts, intraoperative sketches, manuscript notes, and other archival material held at the Montreal Neurological Institute and Hospital, this book presents a fascinating narrative of the development of Penfield's career and the processes that led to each of his great discoveries. Richard Leblanc vividly conveys the collaborative nature of Penfield's work at the Royal Victoria Hospital and at the MNI, which led to his greatest discoveries. Revealing the duality of a life in science, Leblanc shows that while Penfield was instrumental in establishing the localization of specific functions to distinct regions of the brain, he concurrently stressed the integrative action of the nervous system. Written by the leading authority on the history of Penfield's Montreal Neurological Institute, Radical Treatment is an insightful account of the scientific accomplishments of one of the twentieth century's most influential neuroscientists. Wilder Penfield's journal entries and/or personal writings spanning 1921 through 1937, and transcribed in 1950. Entries document Penfield's early medical training and operating experiences in [London] England. Much of the transcription is dedicated to the time Penfield spent in Germany with Otfrid Foerster in 1928 and during a return trip, nine years later in 1937. Foerster and Penfield discuss current research in neuroscience, in particular Penfield's work on epileptic discharge. The life of the world-famous Canadian surgeon and scientist acclaimed by critics from coast to coast. Johnny Gunther was only 17 years old when he died of a brain tumor. This Perennial Modern Classic is a father's memoir of this brave, intelligent, and spirited boy. The outcome of ten years' work, this book is a carefully planned study of brain dominance, aphasia, and other speech disturbances, and includes a discussion of the cerebral mechanisms of speech and the learning and teaching of language. Originally published in 1959. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. 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preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905. Excerpt from Notebook Belonging To Wilder Penfield, 1914-1918 Fig. A) Attelle modifiee de Thomas pour fracture du femur. La meme attelle rembourree, avec piece transversale munie de boucles. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works. Describing NDE issues associated with real-world applications, this comprehensive book details conventional and forthcoming NDE technologies. It instructs on current practices, common techniques and equipment applications, and the potentials and limitations of current NDE methods. Each chapter details a different method, providing an overview, an e The outcome of ten years' work, this book is a carefully planned study of brain dominance, aphasia, and other speech disturbances, and includes a discussion of the cerebral mechanisms of speech and the learning and teaching of language. Originally published in 1981. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These paperback editions preserve the original texts of these important books while presenting them in durable paperback editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905. In the past fifty years scientists have begun to discover how the human brain functions. In this book Wilder Penfield, whose work has been at the forefront of such research, describes the current state of knowledge about the brain and asks to what extent recent findings explain the action of the mind. He offers the general reader a glimpse of exciting discoveries usually accessible to only a few scientists. He writes: "Throughout my own scientific career I, like other scientists, have struggled to prove that the brain accounts for the mind. But perhaps the time has come when we may profitably consider the evidence as it stands, and ask the question...Can the mind be explained by what is now known about the brain?" The central question, he points out, is whether man's being is determined by his body alone or by mind and body as separate elements. Before suggesting an answer, he gives a fascinating account of his experience as a neurosurgeon and scientist observing the brain in conscious patients. Originally published in 1975. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905. Personal diary with accounts of Penfield's experience on the S.S. Sussex, as well as his travels in Europe around that time. An "elegant", "engrossing" (Carol Tavris, Wall Street Journal) examination of what we think we know about the brain and why -- despite technological advances -- the workings of our most essential organ remain a mystery. "I cannot recommend this book strongly enough."--Henry Marsh, author of Do No Harm For thousands of years, thinkers and scientists have tried to understand what the brain does. Yet, despite the astonishing discoveries of science, we still have only the vaguest idea of how the brain works. In The Idea of the Brain, scientist and historian Matthew Cobb traces how our conception of the brain has evolved over the centuries. Although it might seem to be a story of ever-increasing knowledge of biology, Cobb shows how our ideas about the brain have been shaped by each era's most significant technologies. Today we might think the brain is like a supercomputer. In the past, it has been compared to a telegraph, a telephone exchange, or some kind of hydraulic system. What will we think the brain is like tomorrow, when new technology arises? The result is an essential read for anyone interested in the complex processes that drive science and the forces that have shaped our marvelous brains.

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