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First published in 1981 by Elsevier, Principles of Neural Science is an influential neuroscience textbook edited by Eric R. Kandel, James H. Schwartz, and Thomas M. Jessell. The original edition was 468 pages; now on the fifth edition, the book has grown to 1747 pages. The second edition was published in 1985, third in 1991, fourth in 2000. The fifth and latest edition was published on October 26th, 2012 and includes Steven A. Siegelbaum and A.J. Hudspeth as editors. It has been hailed as the "B

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PRINCIPLES OF NEURAL SCIENCE Ultimately, Principles of Neural Science affirms that all behavior is an expression of neural activity, and that the future of clinical neurology and psychiatry hinges on the progress of neural science. Far exceeding the scope and scholarship of similar texts, this unmatched guide offers a commanding, scientifically rigorous perspective on the molecular mechanisms of neural function and disease—one that you ' ll continually rely on to advance your comprehension of brain, mind, and behavior.

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Leading experts in their fields and are dedicated to improving the lives, careers and interests of readers around the world Principles of Neural Science Coverage First published in 1981 by Elsevier, Principles of Neural Science is an influential neuroscience textbook edited by Eric R. Kandel, James H. Schwartz, and Thomas M. Jessell.

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The gold standard of neuroscience texts updated with hundreds of brand-new images and fully revised content in every chapter Doody's Core Titles for 2021! For more than 40 years, Principles of Neural Science has helped readers understand the link between the human brain and behavior. As the renowned text has shown, all behavior is an expression of neural activity and the future of both clinical neurology and psychiatry is dependent on the progress of neural science. Fully updated, this sixth edition of the landmark reference reflects the latest research, clinical perspectives, and advances in the field. It offers an unparalleled perspective on the the current state and future of neural science. This new edition features: Unmatched coverage of how the nerves, brain, and mind function NEW chapters on - The Computational Bases of Neural Circuits that Mediate Behavior - Brain-Machine Interfaces - Decision-Making and Consciousness NEW section on the neuroscientific principles underlying the disorders of the nervous system Expanded coverage of the different forms of human memory Highly detailed chapters on stroke, Parkinson ' s disease, and multiple sclerosis 2,200 images, including 300 new color illustrations, diagrams, radiology studies, and PET scans Principles of Neural Science, Sixth Edition benefits from a cohesive organization, beginning with an insightful overview of the interrelationships between the brain, nervous system, genes, and behavior. The text is divided into nine sections: Part I: Overall Perspective provides an overview of the broad themes of neural science, including the basic anatomical organization of the nervous system and the genetic bases of nervous system function and behavior. Part II: Cell and Molecular Biology of Cells of the Nervous System examines the basic properties of nerve cells, including the generation and conduction of propagated signaling. Part III: Synaptic Transmission focuses on the electrophysiological and molecular mechanism of synaptic transmission with chapters on neuronal excitability, neurotransmitters, and transmitter release. Part IV: Perception discusses the various aspects of sensory perception, including how information from the primary organs of sensation is transmitted to and processed by the central nervous system. Part V: Movement considers the neural mechanisms underlying movement and examines a new treatment that addresses how the basal ganglia regulate the selection of motor actions and instantiate reinforcement learning. Part VI: The Biology of Emotion, Motivation and Homeostasis examines the neural mechanisms by which subcortical areas mediate homeostatic control mechanisms, emotions, and motivation. Part VII: Development and the Emergence of Behavior looks at the nervous system from early embryonic differentiation to the formation and elimination of synapses. Part VIII: Learning, Memory, Language and Cognition expands on the previous section, examining the cellular mechanisms of implicit and explicit memory storage, as well as decision-making and consciousness. Part IX: explores the neural mechanisms underlying diseases and disorders of the nervous system, including autism spectrum disorder, epilepsy, schizophrenia, and anxiety.

The goal of this sixth edition of Principles of Neural Science is to provide readers with insight into how genes, molecules, neurons, and the circuits they form give rise to behavior. With the exponential growth in neuroscience research over the 40 years since the first edition of this book, an increasing challenge is to provide a comprehensive overview of the field while remaining true to the original goal of the first edition, which is to elevate imparting basic principles over detailed encyclopedic knowledge.

A Doody's Core Title for 2011! 5 STAR DOODY'S REVIEW! "This is a simply wonderful book that makes accessible in one place all the details of how the neuron and brain work. The writing is clear. The drawings are elegant and educational. The book is a feast for both the eye and mind. The richness, the beauty, and the complexity of neuroscience is all captured in this superb book."--Doody's Review Service Now in resplendent color, the new edition continues to define the latest in the scientific understanding of the brain, the nervous system, and human behavior. Each chapter is thoroughly revised and includes the impact of molecular biology in the mechanisms underlying developmental processes and in the pathogenesis of disease. Important features to this edition include a new chapter - Genes and Behavior; a complete updating of development of the nervous system; the genetic basis of neurological and psychiatric disease; cognitive neuroscience of perception, planning, action, motivation and memory; ion channel mechanisms; and much more.

The field's definitive work from a Nobel Prize-winning author 900 full-color illustrations Principles of Neural Science, 5e describes our current understanding of how the nerves, brain, and mind function. From molecules to anatomic structures and systems to cognitive function, this comprehensive reference covers all aspects of neuroscience. Widely regarded as the field ' s cornerstone reference, the fifth edition is highlighted by more than 900 full-color illustrations. The fifth edition has been completely updated to reflect the tremendous amount of new research and development in neuroscience in the last decade. Lead author Eric Kandel was awarded the Nobel Prize in Physiology or Medicine in 2000.

Principles of Neural Science, 5e describes our current understanding of how the nerves, brain, and mind function. From molecules and cells to anatomic structures and systems to senses and cognitive functions, this comprehensive reference covers every aspect of neuroscience.

This textbook presents the fundamental principles of neuroscience and its effect on behavior. Neuroscience is the scientific study of the nervous system. Topics will include: principles of brain organization; structure and ultrastructure of neurons; neurophysiology and biophysics of excitable cells; synaptic transmission; neurotransmitter systems and neurochemistry; molecular biology of neurons; development and plasticity of the brain; aging and diseases of the nervous system; organization of sensory and motor systems; structure and function of cerebral cortex; modeling of neural systems. It also examines such topics as mammalian sensory, motor, regulatory, and motivational mechanisms involved in the control of behavior, and higher mental processes such as those involved in language and memory.

Nerve cells - neurons - are arguably the most complex of all cells. From the action of these cells comes movement, thought and consciousness. It is a challenging task to understand what molecules direct the various diverse aspects of their function. This has produced an ever-increasing amount of molecular information about neurons, and only in Molecular Biology of the Neuron can a large part of this information be found in one source. In this book, a non-specialist can learn about the molecules that control information flow in the brain on the progress of brain disease in an approachable format, while the expert has access to a wealth of detailed information from a wide range of topics impacting on his or her field of endeavour. The text is designed to achieve a balance of accessibility and broad coverage with up-to-date molecular detail. In the six years since the first edition of Molecular Biology of the Neuron there has been an explosion in the molecular information about neurons that has been discovered, and this information is incorporated into this second edition. Entirely new chapters have been introduced where recent advances have made a new aspect of neuronal function more comprehensible at the molecular level. Written by leading researchers in the field, the book provides an essential overview of the molecular structure and function of neurons, and will be an invaluable tool to students and researchers alike.

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Principles of Neurobiology, Second Edition presents the major concepts of neuroscience with an emphasis on how we know what we know. The text is organized around a series of key experiments to illustrate how scientific progress is made and helps upper-level undergraduate and graduate students discover the relevant primary literature. Written by a single author in a clear and consistent writing style, each topic builds in complexity from electrophysiology to molecular genetics to systems level in a highly integrative approach. Students can fully engage with the content via thematically linked chapters and will be able to read the book in its entirety in a semester-long course. Principles of Neurobiology is accompanied by a rich package of online student and instructor resources including animations, figures in PowerPoint, and a Question Bank for adopting instructors.

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