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Human Physiology

Anatomy & Physiology with Brief Atlas of the Human Body and Quick Guide to the Language of Science and Medicine - E-Book

A Textbook of Neuroanatomy

Physiology in Childbearing

Cellular Physiology and Neurophysiology E-Book

Clinical Physiology

Physiology

Conn's Translational Neuroscience

Principles of Neural Science

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Molecular and Cellular Physiology of Neurons

Development of the Nervous System

Handbook of Basal Ganglia Structure and Function

Anatomy and Physiology of Domestic Animals

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Lecture Notes Academic Press

Human Physiology is the English version of a time-honored German textbook first published by HERMANN REIN in 1936. We undertook the preparation of a completely revised 20th edition with the intention of making the book accessible to a wide range of English-speaking readers. The subject-matter was therefore organized so as to correspond to the structuring of physiology courses in most countries of the world. The book is directed primarily at students of medicine. Its aim is to enable them to understand living processes in the human organism, providing the basis for the scientific understanding of pathological changes. The material was chosen to give the reader not only the knowledge required for passing examinations, but also information necessary for a subsequent professional career. For this reason special attention was devoted to pathophysiological aspects. We hope that the book will prove a useful reference on the present status of physiology for physicians in private and hospital practice as well as for its primary readership. The book should also serve biologists, biochemists, pharmacologists, pharmacists, and psychologist as a source of information on the physiological principles underlying their disciplines.

Basic Physiology for Anaesthetists John Wiley & Sons

Development of the Nervous System, Second Edition has been thoroughly revised and updated since the publication of the First Edition. It presents a broad outline of neural development principles as exemplified by key experiments and observations from past and recent times. The text is organized along a development pathway from the induction of the neural primordium to the emergence of behavior. It covers all the major topics including the patterning and growth of the nervous system, neuronal determination, axonal navigation and targeting, synapse formation and plasticity, and neuronal survival and death. This new text reflects the complete modernization of the field achieved through the use of model organisms and the intensive application of molecular and genetic approaches. The original, artist-rendered drawings from the First Edition have all been redone and colorized to so that the entire text is in full color. This new edition is an excellent textbook for undergraduate and graduate level students in courses such as Neuroscience, Medicine, Psychology, Biochemistry, Pharmacology, and Developmental Biology. - Updates information including all the new developments made in the field since the first edition - Now in full color throughout, with the original, artist-rendered drawings from the first edition completely redone, revised, colorized, and updated

The Human Nervous System Springer Science & Business Media

Molecular and Cellular Physiology of Neurons: Second Edition is a comprehensive, up-to-date

introduction to essential concepts of cellular neuroscience. Emphasizing experimental approaches and recent discoveries, it provides an in-depth look at the structure and function of nerve cells, from protein receptors and synapses to the biochemical processes that drive the mammalian nervous system. Starting with the basics of electrical current flow across cell membranes, Gordon Fain covers voltage gating and receptor activation in the context of channel diversity, excitatory and inhibitory synaptic transmission, neuromodulation, and sensory transduction. Emphasizing long-term processes of synaptic potentiation and depression involved in memory, consciousness, and attention, he demonstrates how cells produce neural signals and regulate signal flow to enhance or impede cell-to-cell communication. Fain also addresses the relation of molecular and cellular mechanisms to evolving theories of neurological disease and addiction. Enhanced by more than two hundred illustrations, Molecular and Cellular Physiology of Neurons: Second Edition is intended for anyone who seeks to understand the fundamentals of nerve cell function, including undergraduate and graduate students in neuroscience, students of bioengineering and cognitive science, and practicing neuroscientists who want to deepen their knowledge of recent discoveries in molecular and cellular neurophysiology.

Communication in Plants Springer

A quick reference to basic science for anaesthetists, containing all the key information needed for FRCA exams.

Fundamental Neuroscience Thieme

This book provides the reader with a range of questions and explanations related to essential aspects of the neural, hormonal and gastrointestinal physiology. The focus of the book is on understanding the homeostatic control in each system by using questions to challenge the reader to think through physiology. In addition, functional integration of the different organ systems is highlighted in an area such as neuroendocrinology and in the study of the neural mechanisms in the gastrointestinal tract. This is the second Physiology Question-Based Learning book, written by Prof. Dr. Cheng. He has taught physiology for thirty years. He has pioneered the international physiology quiz, which is now an annual event at the University of Malaya in Kuala Lumpur, Malaysia and at universities around the world. As quiz master, he has designed challenging questions to test concepts and understanding in physiology. This book reflects the style of questions asked during the physiology quiz. The questions are designed to stimulate integrative and homeostatic thinking in physiology. The Physiology Question-Based Learning books will be helpful to all students of Physiology in medicine, dentistry, pharmacy and allied health sciences. This work is written to make physiology learning engaging and enjoyable and to encourage effective teaching in physiology.

Medical Physiology : The Big Picture S. Karger AG (Switzerland)

Plant neurobiology is a newly emerging field of plant sciences. It covers signalling and communication at all levels of biological organization – from molecules up to ecological

communities. In this book, plants are presented as intelligent and social organisms with complex forms of communication and information processing. Authors from diverse backgrounds such as molecular and cellular biology, electrophysiology, as well as ecology treat the most important aspects of plant communication, including the plant immune system, abilities of plants to recognize self, signal transduction, receptors, plant neurotransmitters and plant neurophysiology. Further, plants are able to recognize the identity of herbivores and organize the defence responses accordingly. The similarities in animal and plant neuronal/immune systems are discussed too. All these hidden aspects of plant life and behaviour will stimulate further intense investigations in order to understand the communicative plants in their whole complexity.

Neurocytology Academic Press

Cortical evoked potentials are of interest primarily as tests of changing neuronal excitabilities accompanying normal brain function. The first three steps in the analysis of these complex waveforms are proper placement of electrodes for recording, the proper choice of electrical or sensory stimulus parameters, and the establishment of behavioral control. The fourth is development of techniques for reliable measurement. Measurement consists of comparison of an unknown entity with a set of standard scales or dimensions having numerical attributes in preassigned degree. A physical object can be described by the dimensions of size, mass, density, etc. In addition there are dimensions such as location, velocity, weight, hardness, etc. Some of these dimensions can be complex (e. g. size depends on three or more subsidiary coordinates), and some can be interdependent or nonorthogonal (e. g. specification of size and mass may determine density). In each dimension the unit is defined with reference to a standard physical entity, e. g. a unit of mass or length, and the result of measurement is expressed as an equivalence between the unknown and the sum of a specified number of units of that entity. The dimensions of a complex waveform are elementary waveforms from which that waveform can be built by simple addition. Any finite single-valued function of time is admissible. They are called basis functions (10, 15), and they can be expressed in numeric as well as geometric form.

Oxford Textbook of Clinical Neurophysiology Elsevier Health Sciences

This is an admirably concise and clear guide to fundamental concepts in physiology relevant to clinical practice. It covers all the body systems in an accessible style of presentation. Bulleted checklists and boxed information provide an easy overview and summary of the essentials. By concentrating on the core knowledge of physiology, it will serve as a useful revision aid for all doctors striving to achieve postgraduate qualification, and for anyone needing to refresh their knowledge base in the key elements of clinical physiology. The author's own experience as an examiner at all levels has been distilled here for the benefit of postgraduate trainees and medical and nursing students.

Cell Volume Regulation Springer Science & Business Media

"Gain a quick and easy understanding of this complex subject with the 2nd edition of this title by doctors Mordecai P. Blaustein, Joseph PY Kao, and Donald R. Matteson. The expanded and thoroughly updated content in this Mosby Physiology Monograph Series title bridges the gap between basic biochemistry, molecular and cell biology, neuroscience, and organ and systems physiology, providing the rich, clinically oriented coverage you need to master the latest concepts in

neuroscience. See how cells function in health and disease with extensive discussion of cell membranes, action potentials, membrane proteins/transporters, osmosis, and more. Reference key abbreviations, symbols, and numerical constants at a glance with new appendices"--Publisher's description

Cellular Physiology and Neurophysiology McGraw Hill Professional

The most important yet the most difficult scientific task confronting man is how his brain produces his behavior and his subjective experience. The complexity of this problem is ineffably vast, exceeding by many orders of magnitude the theoretical and technical achievements concerning atomic energy or the exploration of space. Unlike these areas of endeavor, neuroscience is fortunate in knowing no national rivalries, and its only secrets are those of language. The latter, however, are often highly effective in concealing from workers in Los Angeles the discoveries of their colleagues in Moscow. A cogent example is provided in this volume by Roy John (p. 179) whose experiments proceeded for several years before he discovered the important body of data accumulated earlier by Prof. Livanov and his colleagues utilizing the same ingenious technique of the "tracer stimulus." Reduction of such occurrences is certainly one of the goals of the present book, which now becomes a double translation, a dozen of the papers having originally been translated into Russian.

Electrophysiology of the Central Nervous System Mosby's Physiology Monograph

This volume presents a unique compilation of reviews on cell volume regulation in health and disease, with contributions from leading experts in the field. The topics covered include mechanisms and signaling of cell volume regulation and the effect of cell volume on cell function, with special emphasis on ion channels and transporters, kinases and gene expression. Several chapters elaborate on how cell volume regulatory mechanisms participate in the regulation of epithelial transport, urinary concentration, metabolism, migration, cell proliferation and apoptosis. Last but not least, this publication is an excellent guide to the role of cell volume in the pathophysiology of hypercatabolism, diabetes mellitus, brain edema, hemoglobinopathies, tumor growth and metastasis, to name just a few. Providing deeper insights into an exciting area of research which is also of clinical relevance, this publication is a valuable addition to the library of those interested in cell volume regulation.

Neurophysiology Springer Science & Business Media

Fundamental Neuroscience, Third Edition introduces graduate and upper-level undergraduate students to the full range of contemporary neuroscience. Addressing instructor and student feedback on the previous edition, all of the chapters are rewritten to make this book more concise and student-friendly than ever before. Each chapter is once again heavily illustrated and provides clinical boxes describing experiments, disorders, and methodological approaches and concepts. Capturing the promise and excitement of this fast-moving field, Fundamental Neuroscience, 3rd Edition is the text that students will be able to reference throughout their neuroscience careers! 30% new material including new chapters on Dendritic Development and Spine Morphogenesis, Chemical Senses, Cerebellum, Eye Movements, Circadian Timing, Sleep and Dreaming, and Consciousness Additional text boxes describing key experiments, disorders, methods, and concepts Multiple model system coverage beyond rats, mice, and monkeys

Extensively expanded index for easier referencing

Human Physiology Elsevier

Part of the Oxford Textbooks in Clinical Neurology series, the Oxford Textbook of Clinical Neurophysiology includes sections that provide a summary of the basic science underlying neurophysiological techniques, a description of the techniques themselves, including normal values, and a description of the use of the techniques in clinical situations. Much of diagnostic neurophysiology is essentially pattern recognition which is illustrated throughout the text using audio and video examples. Divided into four key sections, this book begins with the scientific basis of clinical neurophysiology (Section 1) before exploring specific techniques including Electromyography, Intracranial EEG recordings, and Magnetoencephalography (Section 2). The final two sections explore clinical aspects of both the peripheral nervous system (Section 3) and the central nervous system (Section 4).

Anatomy & Physiology with Brief Atlas of the Human Body and Quick Guide to the Language of Science and Medicine - E-Book Oxford University Press

Newly revised and updated, *A Textbook of Neuroanatomy, Second Edition* is a concise text designed to help students easily master the anatomy and basic physiology of the nervous system. Accessible and clear, the book highlights interrelationships between systems, structures, and the rest of the body as the chapters move through the various regions of the brain. Building on the solid foundation of the first edition, *A Textbook of Neuroanatomy* now includes two new chapters on the brainstem and reflexes, as well as dozens of new micrographs illustrating key structures. Throughout the book the clinical relevance of the material is emphasized through clinical cases, questions, and follow-up discussions in each chapter, motivating students to learn the information. A companion website is also available, featuring study aids and artwork from the book as PowerPoint slides. *A Textbook of Neuroanatomy, Second Edition* is an invaluable resource for students of general, clinical and behavioral neuroscience and neuroanatomy.

A Textbook of Neuroanatomy Academic Press

An integrated textbook of medical neuroscience, this book coherently presents the anatomy, physiology, and biochemistry of the human nervous system. The neuroanatomy is presented in a way that is integrated with a modern presentation of cellular neurophysiological systems, neuroscience, and cellular, molecular, and developmental neuroscience. Clinical correlations are provided wherever appropriate.

Physiology in Childbearing CRC Press

The Basal Ganglia comprise a group of forebrain nuclei which are interconnected with the cerebral cortex, thalamus and brainstem. Basal ganglia circuits are involved in various functions, including motor control, cognition, and mnemonic functions, and the importance of these nuclei for normal brain function and behavior is emphasized by the numerous disorders associated with basal ganglia dysfunction - Parkinson's, Tourette's, Huntington's, cerebral palsy, ADHD, OCD, and others. The Handbook provides a comprehensive overview of the structural and functional organization of the basal ganglia, w

Cellular Physiology and Neurophysiology E-Book Academic Press

Neurophysiology: A Conceptual Approach offers a refreshing alternative to 'learning by rote'. Under

new authorship, the sixth edition preserves the legacy of the original author, the late Roger Carpenter, retaining the concise approach and readable style so central to its predecessors. Integrating the disciplines of neurology and neuroscience with an emphasis on principles and functional concepts, this comprehensive textbook covers the entire subject of neurophysiology, from the conduction of nerve impulses to the higher functions of the brain, within a single accessible volume. Key Features: Everything the student of medicine or physiology needs to understand neurophysiology. Blends successfully the principles of neuroscience with clinical manifestations in line with modern undergraduate curriculums. Revised and updated, with a particular focus on proprioception, skin sense and hearing, including developments in cochlear implants, and functional MRI Over 500 illustrations, accompanied by full figure legends, also available as a download for use in presentations. Choice of PB with bundled ebook, durable HB or ebook only for complete flexibility Full of explanatory colour diagrams, the book remains an unrivalled 'one-stop shop' for students of medicine, physiology and applied physiology, neurophysiology, neuroscience, and other bioscience disciplines seeking an integrated introduction to the challenging disciplines of neuroscience and neurology.

Clinical Physiology Springer Science & Business Media

The latest edition of this well-established, accessible introduction to neurophysiology succeeds in integrating the disciplines of neurology and neuroscience with an emphasis on principles and functional concepts. In *Neurophysiology: A Conceptual Approach, Fifth Edition*, the authors deliver a refreshing alternative to "learning by rote," employing a

Physiology Harvard University Press

A&P may be complicated, but learning it doesn't have to be! *Anatomy & Physiology, 11th Edition* uses a clear, easy-to-read approach to tell the story of the human body's structure and function. Color-coded illustrations, case studies, and Clear View of the Human Body transparencies help you see the "Big Picture" of A&P. To jump-start learning, each unit begins by reviewing what you have already learned and previewing what you are about to learn. Short chapters simplify concepts with bite-size chunks of information. - Conversational, storytelling writing style breaks down information into brief chapters and chunks of information, making it easier to understand concepts. - 1,400 full-color photographs and drawings bring difficult A&P concepts to life and illustrate the most current scientific knowledge. - UNIQUE! Clear View of the Human Body transparencies allow you to peel back the layers of the body, with a 22-page, full-color insert showing the male and female human body along several planes. - The Big Picture and Cycle of Life sections in each chapter help you comprehend the interrelation of body systems and how the structure and function of these change in relation to age and development. - Interesting sidebars include boxed features such as Language of Science and Language of Medicine, Mechanisms of Disease, Health Matters, Diagnostic Study, FYI, Sport and Fitness, and Career Choices. - Learning features include outlines, key terms, and study hints at the start of each chapter. - Chapter summaries, review questions, and critical thinking questions help you consolidate learning after reading each chapter. - Quick Check questions in each chapter reinforce learning by prompting you to review what you have just read. - UNIQUE! Comprehensive glossary includes more terms than in similar textbooks, each with an easy pronunciation guide and simplified translation of word parts — essential features for learning to use

scientific and medical terminology! - NEW! Updated content reflects more accurately the diverse spectrum of humanity. - NEW! Updated chapters include Homeostasis, Central Nervous System, Lymphatic System, Endocrine Regulation, Endocrine Glands, and Blood Vessels. - NEW! Additional and updated Connect It! articles on the Evolve website, called out in the text, help to illustrate, clarify, and apply concepts. - NEW! Seven guided 3-D learning modules are included for Anatomy & Physiology.

Conn's Translational Neuroscience Elsevier Health Sciences

Lecture Notes: Human Physiology provides concise coverage of general physiology for medical

students as well as students of biological sciences, sport science, pharmacology and nursing. This fifth edition of the ever popular Lecture Notes: Human Physiology has been thoroughly revised and updated by a new international team of authors. The simple structure and systems-based approach remain, with a new clean layout for ease of reading and colour now incorporated to aid understanding. Lecture Notes: Human Physiology: Provides more focus on pathophysiology for clinical relevance Is the perfect introduction for medical and allied health care students Now includes physiology of pain and increased coverage of heart and the vascular system Includes a completely revised chapter on the nervous system.

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