

Fundamental Neuroscience Zigmond

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the fundamental neuroscience book is the only comprehensive text that defines the full scope of neuroscience this cd rom contains all of the high quality color illustrations from the book nearly 1000 in all making them accessible as electronic slides and available for handouts and other uses the cd rom is an ideal tool for enhancing presentations and courses based on material in the book

this hundredth volume is a commemorative milestone in the prestigious progress in brain research series accordingly authors were invited to write on any topic given that their choice represented the topic most near and dear to their own efforts over a significant period of the recent past and to which they would likely continue to be devoted in the future in that sense this volume does not represent a scientific meeting but rather an overview sample of problems and methodologies that epitomize brain research broadly at this special moment in the maturation of the field the chapters comprising this volume assort themselves readily into five or six established

categories of topics developmental brain research molecular brain research integrative brain research neuroplasticity and neuro psychiatric conditions this volume reports through a sample of recognized leaders in the neuroscientific community at a significant instant in the history and evolution of the field

with over 300 training programs in neuroscience currently in existence demand is great for a comprehensive textbook that both introduces graduate students to the full range of neuroscience from molecular biology to clinical science but also assists instructors in offering an in depth course in neuroscience to advanced undergraduates the second edition of fundamental neuroscience accomplishes all this and more the thoroughly revised text features over 25 new material including completely new chapters illustrations and a cd rom containing all the figures from the text more concise and manageable than the previous edition this book has been retooled to better serve its audience in the neuroscience and medical communities key features logically organized into 7 sections with uniform editing of the content for a one voice feel throughout all 54 chapters includes numerous text boxes with concise detailed descriptions of specific experiments disorders methodological approaches and concepts well illustrated with over 850 full color figures also included on the accompanying cd rom

nervous system actions and interactions concepts in neurophysiology approaches the nervous system from a functional rather than structural point of view while all of the central topics of functional neuroscience are covered these topics are organized from a neurophysiological perspective yielding chapters on subjects such as information storage and effector actions each chapter is organized around general concepts that then are further developed in the text the authors attempt to establish a dialogue with the reader by means of proposed experiments and open ended questions that are designed to both reinforce and question the text this volume is intended to be a book of ideas for the novice or seasoned researcher in neuroscience

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neurobiology of brain disorders is the first book directed primarily at basic scientists to offer a comprehensive overview of neurological and neuropsychiatric disease this book links basic translational and clinical research covering the genetic developmental molecular and cellular mechanisms underlying all major categories of brain disorders it offers students postdoctoral fellows and researchers in the diverse fields of neuroscience neurobiology neurology and psychiatry the tools they need to obtain a basic background in the major neurological and psychiatric diseases and to discern connections between basic research and these relevant clinical conditions this book addresses developmental autoimmune central and peripheral neurodegeneration infectious diseases and diseases of higher function the final chapters deal with broader issues including some of the ethical concerns raised by neuroscience and a discussion of health disparities included in each chapter is coverage of the clinical condition diagnosis treatment underlying mechanisms relevant basic and translational research and key unanswered questions written and edited by a diverse team of international experts neurobiology of brain disorders is essential reading for anyone wishing to explore the basic science underlying neurological and neuropsychiatric diseases links basic translational and clinical research on disorders of the nervous system creating a format for study that will accelerate disease prevention and treatment covers a vast array of neurological disorders including adhd down syndrome autism muscular dystrophy diabetes tbi parkinson huntington

alzheimer ocd ptsd schizophrenia depression and pain illustrated in full color each chapter provides in text summary points special feature boxes and research questions provides an up to date synthesis of primary source material

reveals the functional features of neurons and glia in the context of vulnerability and self protection intracellular properties and extracellular matrix explores the molecular and systemic processes underlying migration disorders axonal injury repair and regeneration discusses alzheimer s disease parkinson s disease als and stroke

a new understanding of cognitive development from the perspective of neuroscience this book provides a state of the art understanding of the neural bases of cognitive development although the field of developmental cognitive neuroscience is still in its infancy the authors effectively demonstrate that our understanding of cognitive development is and will be vastly improved as the mechanisms underlying development are elucidated the authors begin by establishing the value of considering neuroscience in order to understand child development and then provide an overview of brain development they include a critical discussion of experience dependent changes in the brain the authors explore whether the mechanisms underlying developmental plasticity differ from those underlying adult plasticity and more fundamentally what distinguishes plasticity from development having armed the reader with key neuroscience basics the book begins its examination of the neural bases of cognitive development by examining the methods employed by professionals in developmental cognitive neuroscience following a brief historical overview the authors discuss behavioral anatomic metabolic and electrophysiological methods finally the book explores specific content areas focusing on those areas where there is a significant body of knowledge on the neural underpinnings of cognitive development including declarative and non declarative memory and learning spatial cognition object recognition social cognition speech and language development attention development for cognitive and developmental psychologists as well as students in developmental psychology neuroscience and cognitive development the authors view of behavioral development from the perspective of neuroscience sheds new light on the mechanisms that underlie how the brain functions and how a child learns and behaves

consists of abstracts of papers presented at the 7th annual meeting of the society for neuroscience

part of the authoritative four volume reference that spans the entire field of child development and has set the standard against which all other scholarly references are compared updated and revised to reflect the new developments in the field the handbook of child psychology sixth edition contains new chapters on such topics as spirituality social understanding and non verbal communication volume 2 cognition perception and language edited by deanna kuhn columbia university and robert s siegler carnegie mellon university covers mechanisms of cognitive and perceptual development in language acquisition it includes new chapters devoted to neural bases of cognition motor development grammar and language rules information processing and problem solving skills

in this volume an international multidisciplinary group of experts reviews the latest findings on the biology of dopaminergic neurotransmission and the role of dopamine in the pathophysiology and treatment of disorders such as schizophrenia depression dysthymia and motor diseases the book integrates current knowledge on dopaminergic function from diverse areas of basic science and clinical research including molecular biology transgenic studies biochemistry genetics brain imaging

neurology and psychiatry

in this volume an international group of experts presents research on the biology biochemistry molecular biology physiology and pharmacology of the growing class of peptides that function as hormones or neurotransmitters including vasoactive intestinal peptide vip pituitary adenylate cyclase activating peptide pacap glucagon and related peptides topics include the role of this family of peptides and their receptors in signal transduction mechanisms cancer autonomic physiology neurobiology cell proliferation cell death and tissue injury endocrinology and neuroimmunology along with clinical and potential therapeutic implications

this introductory neuroscience text is written specifically for medical students it focuses on the basic neuroscientific knowledge base that the physician generalist needs in order to deal intelligently and flexibly with the clinical problems she or he will face the primary goal of the text is vertical integration the concept that the teaching of neuroscience through the four years of medical school should be a highly organized seamless process that assures acquisition of the neurologic skills and knowledge demanded of today s medical generalist

this accessible undergraduate text is the first to make teaching the neuropsychology course easier rains provides adequate depth and explanatory material to inspire student interest and motivation and his in depth approach not only makes the material easier for students to grasp but reveals the exciting questions of the field remaining to be answered principles of human neuropsychology s other hallmark is to foster an appreciation for the interdisciplinary nature of neuropsychology by employing a levels of analysis approach from single cell recording to the effects of large lesions

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