

# 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

introducing neurobiology through an evolutionary organismal and experimental perspective neurobiology covers not only what neuroscientists have learned about the brain in terms of facts and ideas but also how they have learned it through key experiments with a strong emphasis on neural circuits and systems this text bridges the gap between the cellular and molecular end and the cognitive end of the neuroscience spectrum allowing students to grasp the full breadth of the subject

in addition to filling a need within the field of parental behavior this book contributes importantly to the growing area of emotional and motivational neuroscience a major part of

neuroscience research at the whole organism level has been focused on cognitive neuroscience with an emphasis on the neurobiology of learning and memory but there has been a recent upsurge in research which is attempting to define the neural basis of basic motivational and emotional systems which regulate such behaviors as food intake aggression reproduction reward seeking behaviors and anxiety related behaviors in this book the emphasis is on the research findings obtained from rodents sheep and primates the authors goal of course was to provide a foundation that may help us understand the neurobiology of human parental behavior indeed the last chapter attempts to integrate the non human research data with some human data in order to make some inroads toward an understanding of postpartum depression child abuse and child neglect clearly motivational and emotional neuroscience has close ties to psychiatry and this connection will be very evident in the final chapter by understanding the neurobiology of parental behavior we are also delving into neurobiological factors which may have an impact on core human characteristics involved in sociality social attachment nurturing behavior and love in this very violent world it is hard to conceive of a group of characteristics that are more worthy of study

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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

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

the handbook is intended to be a service to the neuroscience community to help in finding available and useful information to point out gaps in our knowledge and to encourage continued studies it represents the valuable contributions of the many authors of the chapters and the guidance of the editors and most important it represents support for research in this discipline based on the rapid advances in the years since the second edition

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

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

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