
Neuroscience

A Historical Introduction

Mitchell Glickstein

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Neuroscience A Historical Introduction

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Neuroscience A Historical Introduction:

Neuroscience Mitchell Glickstein, 2014-01-17 An introduction to the structure and function of the nervous system that emphasizes the history of experiments and observations that led to modern neuroscientific knowledge This introduction to neuroscience is unique in its emphasis on how we know what we know about the structure and function of the nervous system What are the observations and experiments that have taught us about the brain and spinal cord The book traces our current neuroscientific knowledge to many and varied sources including ancient observations on the role of the spinal cord in posture and movement nineteenth century neuroanatomists descriptions of the nature of nerve cells physicians attempts throughout history to correlate the site of a brain injury with its symptoms and experiments on the brains of invertebrates After an overview of the brain and its connections to the sensory and motor systems Neuroscience discusses among other topics the structure of nerve cells electrical transmission in the nervous system chemical transmission and the mechanism of drug action sensation vision hearing movement learning and memory language and the brain neurological disease personality and emotion the treatment of mental illness and consciousness It explains the sometimes baffling Latin names for brain subdivisions discusses the role of technology in the field from microscopes to EEGs and describes the many varieties of scientific discovery The book s novel perspective offers a particularly effective way for students to learn about neuroscience It also makes it clear that past contributions offer a valuable guide for thinking about the puzzles that remain **Origins of**

Neuroscience Stanley Finger, 2001 With over 350 illustrations this impressive volume traces the rich history of ideas about the functioning of the brain from its roots in the ancient cultures of Egypt Greece and Rome through the centuries into relatively modern times In contrast to biographically oriented accounts this book is unique in its emphasis on the functions of the brain and how they came to be associated with specific brain regions and systems Among the topics explored are vision hearing pain motor control sleep memory speech and various other facets of intellect The emphasis throughout is on presenting material in a very readable way while describing with scholarly acumen the historical evolution of the field in all its amazing wealth and detail From the opening introductory chapters to the concluding look at treatments and therapies this monumental work will captivate readers from cover to cover It will be valued as both an historical reference and as an exciting tale of scientific discovery It is bound to attract a wide readership among students and professionals in the neural sciences as well as general readers interested in the history of science and medicine Motion and Emotion Andrea E.

Cavanna, 2018-07-03 This book illustrates the clinical interface between neurology and psychiatry by focusing on neuropsychiatric conditions characterised by alterations at the level of both motor function and behaviour The neuropsychiatric approach to movement disorders and epilepsy is of key importance in clinically assessing and treating these common and often disabling conditions While addressing the clinical challenges posed by the behavioural aspects of movement disorders and epilepsy it invites readers on a journey through the evolving discipline of neuropsychiatry

behavioural neurology both in the past and today This discipline has an illustrious history and continues its ascending trajectory in the new millennium through the activity of long established national organisations British Neuropsychiatry Association BNPA and American Neuropsychiatric Association ANPA as well as newly developed strategic research initiatives Michael Trimble Neuropsychiatry Research Group MTNRG Peptides in Neurobiology Harold Gainer,2012-12-06 **The Journal of Neuroscience** ,1991 Cerebral Asymmetries ,2025-03-13 Cerebral Asymmetries Volume 208 summarizes research on cerebral hemispheric asymmetries and their implication for consciousness cognition language emotion behavior movement and neurological disease The book discusses anatomy and networks genetics hormones and evolution although it is primarily focused on animal research as it relates back to humans Summarizes research on cerebral hemispheric asymmetries Identifies impact on consciousness cognition language behavior movement and more Includes animal and human research Covers anatomy genetics hormones and evolution **Forced Migration in the History of 20th Century Neuroscience and Psychiatry** Frank W. Stahnisch,Gül A. Russell,2017-09-18 The forced migration of neuroscientists both during and after the Second World War is of growing interest to international scholars Of particular interest is how the long term migration of scientists and physicians has affected both the academic migrants and their receiving environments As well as the clash between two different traditions and systems this migration forced scientists and physicians to confront foreign institutional political and cultural frameworks when trying to establish their own ways of knowledge generation systems of logic and cultural mentalities The twentieth century has been called the century of war and forced migration since it witnessed two devastating world wars prompting a massive exodus that included many neuroscientists and psychiatrists Fascism in Italy and Spain beginning in the 1920s Nazism in Germany and Austria between the 1930s and 1940s and the impact of the Soviet occupation of Eastern Europe all forced more than two thousand researchers with prior education in neurology psychiatry and the basic brain research disciplines to leave their scientific and academic home institutions This edited volume comprising of thirteen chapters written by international specialists reflects on the complex dimensions of intellectual migration in the neurosciences and illustrates them by using relevant case studies biographies and surveys This book was originally published as a special issue of the Journal of the History of the Neurosciences **Neuroscience for Rehabilitation** Helen Sue Cohen,1999 The second edition of this introductory text uses clinical examples to bridge the gap between basic neuroscience and the practice of neurologic rehabilitation Each chapter illustrates the relationship between the nervous system and behavior Current portable and clearly written the text covers discrete systems for acquiring information the neural mechanisms that control specific kinds of human function and how the nervous system responds to insult and injury New in this edition Neurotransmitters support structures and blood supply sensorimotor interaction and aging of the nervous system *International Journal of Neuroscience* ,1976 Principles of Neural Science, Sixth Edition Eric R. Kandel,John D. Koester,Sarah H. Mack,Steven A. Siegelbaum,2021-04-05 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 2023 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

Neuroscience J. F. Stein, Catherine Stoodley, 2006-08-25 This engaging book will serve as an introductory text in neuroscience It conveys important ideas in neuroscience without overburdening the student with unnecessary detail Drawing from his 35 years of teaching experience of teaching at Oxford University the author concentrates on concepts and observations that students find difficult amusing interesting or exciting Starting with a brief

history of neuroscience it covers cellular and biophysical aspects sensory systems motor systems the hypothalamus the automatic nervous system learning and memory and speech and reading *A Short History of Neurology* Frank Clifford Rose,1999 Neurologists neuroscientists neurosurgeons and medical historians from North America Europe and Asia explore three centuries of British neurology offer biographies of leading characters of the period illustrated with bandw photographs as well as contributions discussing such concepts as the evolution of British neurology in comparison with other countries and three early 19th century British neurological texts Annotation copyrighted by Book News Inc Portland OR *Cognitive Neuroscience* Jamie Ward,2009 *Psychopharmacology of the Limbic System* Michael R. Trimble,E. Zarifian,1984 This book opens with a discussion of the definition anatomy and chemistry of the limbic system including a survey of recent advances in our understanding There follows a series of contributions on the normal neurophysiology of the system and the consequences of lesions and disturbances The book then examines the interaction of groups of psychopharmacologically active agents

Neurology Michael Swash,Martin Samuel Schwartz,1989 **Bibliographia Neuroendocrinologica** Mary Weitzman,1977 **Abstracts - Society for Neuroscience** Society for Neuroscience,1994 **History of Neurology in the Netherlands** ,2002 The Brain and Sensory Plasticity Charles I. Berlin,Theodore Gordon Weyand,2003 The Brain and Sensory Plasticity Language Acquisition and Hearing is the eighth volume honoring the annual Kresge Mirmelstein award for excellence This volume celebrates Masakazu Koniski who has led the field in neuroethology since the 1960 s This book contains a collection of seven research articles presented by prominent contributors in the field of neuroethology

Essentials of Cognitive Neuroscience Bradley R. Postle,2020-08-04 Essentials of Cognitive Neuroscience introduces and explicates key principles and concepts in cognitive neuroscience in such a way that the reader will be equipped to critically evaluate the ever growing body of findings that the field is generating For some students this knowledge will be needed for subsequent formal study and for all readers it will be needed to evaluate and interpret reports about cognitive neuroscience research that make their way daily into the news media and popular culture New to the 2nd Edition New chapter on methodology Updated content considers the growing influence of perspectives from predictive coding reinforcement learning deep neural networks and AI on cognitive neuroscience as well as important empirical results from the past few years ranging from object and face recognition to perceptual decision making to working memory to language comprehension

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