

Regeneration and Plasticity in the Mammalian Visual System



edited by

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Regeneration And Plasticity In The Mammalian Visual System

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Regeneration And Plasticity In The Mammalian Visual System:

Regeneration and Plasticity in the Mammalian Visual System Dominic Man-Kit Lam, Garth M. Bray, 1992 This fourth volume in the Retina Research Foundation Symposia Proceedings highlights several of the strategies and experimental paradigms that are currently used to exploit and amplify the regenerative capacity of the adult mammalian visual system and reviews the exciting advances being made in understanding the molecular basis of central nervous system regeneration. Because loss of neurons or interruptions of their connective pathways in the mammalian visual system can in contrast to certain amphibians and fish lead to permanent loss of vision, studies of regeneration and plasticity in this system serve as valuable models for the reconstitution of other parts of the nervous system and as potential approaches to the diverse disorders that lead to visual loss. Dominic Man Kit Lam is Director of the Center for Biotechnology and Professor of Biotechnology, Cell Biology and Ophthalmology at Baylor College of Medicine. Garth M Bray is Professor in the Centre for Research in Neuroscience at McGill University. Partial Contents and Contributors: I Introduction Harold J Sheedo, James E Turner II Cells and Molecules that Influence Neuronal Survival Susan O Meakin, Eric M Shooter, Garth M Bray, Lamberto Maffei et al III Molecular Mechanisms of Axonal Regeneration Louis F Reichardt, Greg E Lemke, Randall N Pittman, Susan Spencer, Mark B Willard et al IV Retinal Responses to Injury and Transplantation Kwok Fai So, Raymond D Lund, Harold J Sheedo, Manuel P delCerro et al V Plasticity of Connectivity in the Visual System Edward G Jones, Douglas O Frost, Torsten N Wiesel, Albert J Aquayo et al **Contrast Sensitivity** Robert Shapley, R. M. Shapley, Dominic Man-Kit Lam, 1993 The seventeen contributions present current research in visual signal processing in the retina and central pathways and in the study of contrast sensitivity in humans. The seventeen contributions present current research in visual signal processing in the retina and central pathways and in the study of contrast sensitivity in humans. *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), 1993 Cellular Migration and Formation of Neuronal Connections, 2013-05-06 The genetic, molecular and cellular mechanisms of neural development are essential for understanding evolution and disorders of neural systems. Recent advances in genetic, molecular and cell biological methods have generated a massive increase in new information, but there is a paucity of comprehensive and up-to-date syntheses, references and historical perspectives on this important subject. The Comprehensive Developmental Neuroscience series is designed to fill this gap, offering the most thorough coverage of this field on the market today and addressing all aspects of how the nervous system and its components develop. Particular attention is paid to the effects of abnormal development and on new psychiatric/neurological treatments being developed based on our increased understanding of developmental mechanisms. Each volume in the series consists of review-style articles that average 15-20pp and feature numerous illustrations and full references. Volume 2 offers 56 high-level articles devoted mainly to Formation of Axons and Dendrites, Migration, Synaptogenesis, Developmental Sequences in the Maturation of Intrinsic and Synapse-Driven Patterns. Series offers 144 articles for 2904 full

color pages addressing ways in which the nervous system and its components develop Features leading experts in various subfields as Section Editors and article Authors All articles peer reviewed by Section Editors to ensure accuracy thoroughness and scholarship Volume 2 sections include coverage of mechanisms which regulate the formation of axons and dendrites cell migration synapse formation and maintenance during development and neural activity from cell intrinsic maturation to early correlated patterns of activity *Perceiving in Depth, Volume 1: Basic Mechanisms* Ian P.

Howard,2012-01-27 The three volume work *Perceiving in Depth* is a sequel to *Binocular Vision and Stereopsis* and to *Seeing in Depth* both by Ian P Howard and Brian J Rogers This work is much broader in scope than the previous books and includes mechanisms of depth perception by all senses including aural electrosensory organs and the somatosensory system Volume 1 reviews sensory coding psychophysical and analytic procedures and basic visual mechanisms Volume 2 reviews stereoscopic vision Volume 3 reviews all mechanisms of depth perception other than stereoscopic vision The three volumes are extensively illustrated and referenced and provide the most detailed review of all aspects of perceiving the three dimensional world Volume 1 starts with a review of the history of visual science from the ancient Greeks to the early 20th century with special attention devoted to the discovery of the principles of perspective and stereoscopic vision The first chapter also contains an account of early visual display systems such as panoramas and peepshows and the development of stereoscopes and stereophotography A chapter on the psychophysical and analytic procedures used in investigations of depth perception is followed by a chapter on sensory coding and the geometry of visual space An account of the structure and physiology of the primate visual system proceeds from the eye through the LGN to the visual cortex and higher visual centers This is followed by a review of the evolution of visual systems and of the development of the mammalian visual system in the embryonic and post natal periods with an emphasis on experience dependent neural plasticity An account of the development of perceptual functions especially depth perception is followed by a review of the effects of early visual deprivation during the critical period of neural plasticity on amblyopia and other defects in depth perception Volume 1 ends with accounts of the accommodation mechanism of the human eye and vergence eye movements [Biomedical Index to PHS-supported Research](#)

,1991 **Research Awards Index** ,1989 *Biomedical Index to PHS-supported Research: pt. A. Subject access A-H* ,1992

NINCDS Index to Research Grants Subject Number Investigator & Contracts National Institute of Neurological and Communicative Disorders and Stroke, **Essential Biological Psychology** Jim Barnes,2013-02-01 Drawing on the latest exciting research *Essential Biological Psychology* provides students with a solid grasp of the relationship between mind and behaviour and a detailed understanding of the underlying structure and physiological mechanisms that underpin it The functions of the nervous system are explained and implications for health are explored Throughout the book Jim Barnes encourages students to evaluate essential concepts and theoretical issues Features include key concepts highlighted throughout the text enables students to grasp the fundamental knowledge and understanding of the structures and functions

of the human nervous system that are relevant to the study of psychology the snapshot of key studies detailed in the textboxes allow critical evaluation of the role of physiology in human behaviour against a backdrop of up to date research clear explanations of the key methods in the text give students an appreciation of the contributions made by the different approaches and research methods that are used in biological psychology memory maps and diagrams within the text encourage learning and allow students to formulate memory aids to assist recall in exam conditions a companion website consists of PowerPoint lecture slides and a testbank for teachers 50 questions per chapter as well as interactive self assessment testbank for students 10 questions per chapter

The Handbook of Multisensory Processes Gemma Calvert, Charles Spence, Barry E. Stein, 2004 Research is suggesting that rather than our senses being independent perception is fundamentally a multisensory experience This handbook reviews the evidence and explores the theory of broad underlying principles that govern sensory interactions regardless of the specific senses involved

Seeing in Depth: Basic mechanisms Ian P. Howard, Brian J. Rogers, 2002

Formation and Regeneration of Nerve Connections SHARMA, FAWCETT, 2013-11-11

Modality and language acquisition: How does the channel through which language is expressed affect how children and adults are able to learn? Richard P. Meier, Christian Rathmann, Aaron Shield, 2023-12-19

Research Grants Index National Institutes of Health (U.S.). Division of Research Grants, 1975

Subject Guide to Books in Print, 2001

Journal of Cognitive Neuroscience, 1993

Philosophy, Psychiatry and Neuroscience Edward M. Hundert, 1989 This book proposes a new unified view of the mind which integrates the insights of philosophers psychologists and neuroscientists Through a detailed discussion of major theories from all these and related disciplines the author gradually reveals fundamental links between these previously unconnected approaches to human thought and experience The author has studied medicine philosophy mathematics and history and is currently a practising psychiatrist and a teacher at the Harvard Medical School He discusses diverse fields of thought with depth and clarity and his unique perspective should stimulate a re evaluation of our traditional approaches to the mind

Post-lesion Neural Plasticity Hans Flohr, 1988 Neural networks are not rigidly wired but rather highly plastic structures the functional architecture of which can be actively reorganized in response to external or internal events Lesions of such networks induce plastic processes which in time may lead to a recovery of the initially disrupted function This type of neural plasticity is the main focus of the book which presents a broad spectrum of experimental paradigms for lesion induced plasticity as in the spinal cord the vestibular oculomotor visual and olfactory system the cerebellum and the cerebral cortex including recent methodological developments Concepts and perspectives in understanding neural plasticity are reported in reviews and original research reports and are thoroughly discussed

Annual Scientific Report Howard Hughes Medical Institute, 1992

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