The New Visual Neurosciences (MIT Press)

John S. Werner, Leo M. Chalupa

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Visual science is the model system for neuroscience, its findings relevant to all other areas. This essential reference to contemporary visual neuroscience covers the extraordinary range of the field today, from molecules and cell assemblies to systems and therapies. It provides a state-of-the art companion to the earlier book *The Visual Neurosciences* (MIT Press, 2003). This volume covers the dramatic advances made in the last decade, offering new topics, new authors, and new chapters. *The New Visual Neurosciences* assembles groundbreaking research, written by international authorities. Many of the 112 chapters treat seminal topics not included in the earlier book. These new topics include retinal feature detection; cortical connectomics; new approaches to mid-level vision and spatiotemporal perception; the latest understanding of how multimodal integration contributes to visual perception; new theoretical work on the role of neural oscillations in information processing; and new molecular and genetic techniques for understanding visual system development. An entirely new section covers invertebrate vision, reflecting the importance of this research in understanding fundamental principles of visual processing. Another new section treats translational visual neuroscience, covering recent progress in novel treatment modalities for optic nerve disorders, macular degeneration, and retinal cell replacement. *The New Visual Neurosciences* is an indispensable reference for students, teachers, researchers, clinicians, and anyone interested in contemporary neuroscience.**Associate Editors**Marie Burns, Joy Geng, Mark Goldman, James Handa, Andrew Ishida, George R. Mangun, Kimberley McAllister, Bruno Olshausen, Gregg Recanzone, Mandyam Srinivasan, W.Martin Usrey, Michael Webster, David Whitney**Sections**Retinal Mechanisms and ProcessesOrganization of Visual PathwaysSubcortical ProcessingProcessing in Primary Visual CortexBrightness and ColorPattern, Surface, and ShapeObjects and ScenesTime, Motion, and DepthEye MovementsCortical Mechanisms of Attention, Cognition, and Multimodal IntegrationInvertebrate VisionTheoretical PerspectivesMolecular and Developmental ProcessesTranslational Visual Neuroscience

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