


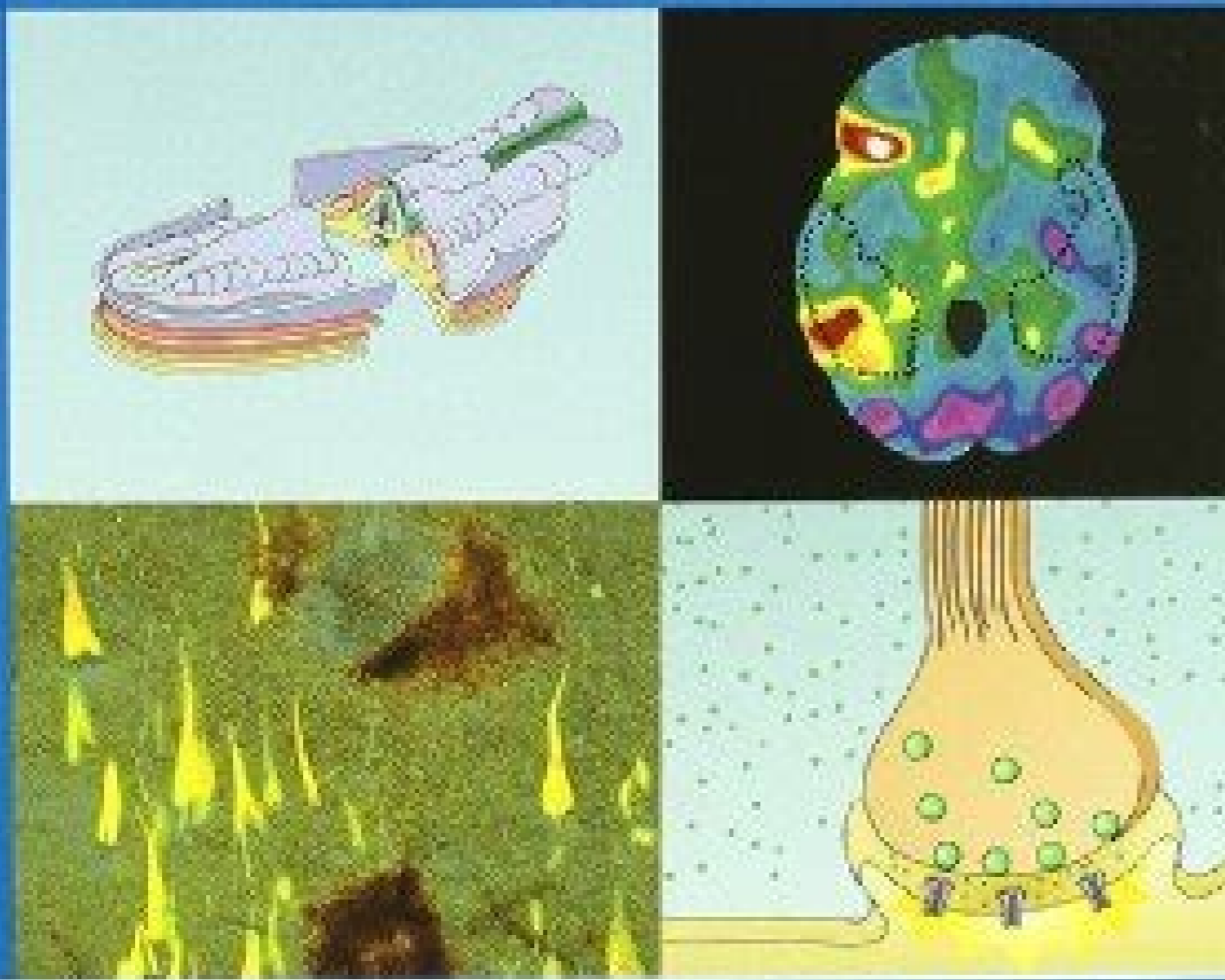
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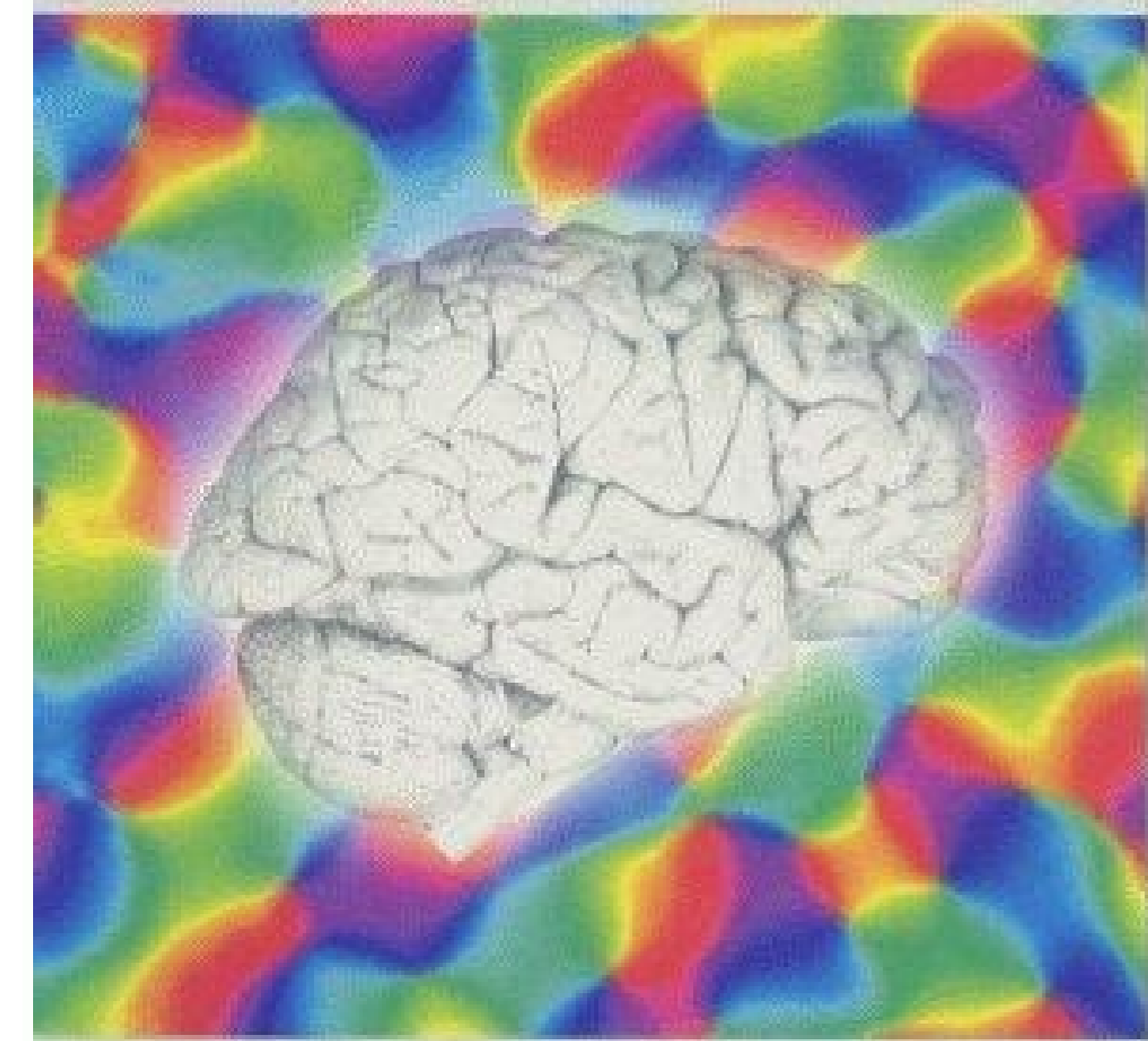
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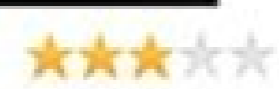
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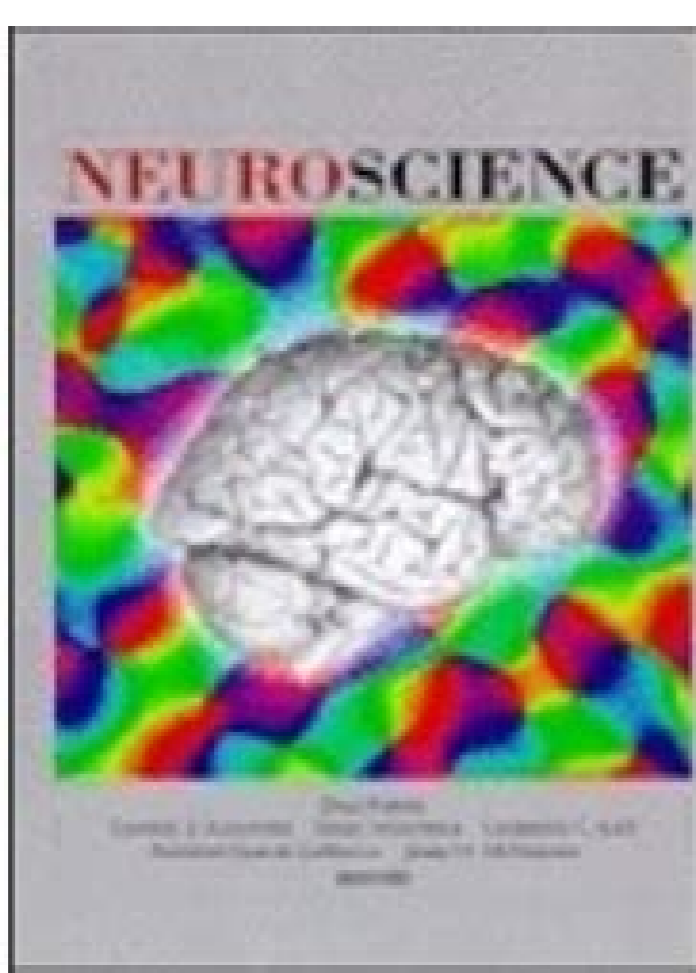
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Neurotransmitter Receptors and Their EffectsNeurotransmitter Receptors Alter Postsynaptic Membrane PermeabilityPrinciples Derived from Studies of the Neuromuscular JunctionExcitatory and Inhibitory Postsynaptic PotentialsSummation of Synaptic PotentialsTwo Families of Postsynaptic ReceptorsCholinergic ReceptorsGlutamate ReceptorsGABA and Glycine ReceptorsSerotonin ReceptorsPurinergetic ReceptorsCatecholamine ReceptorsPeptide ReceptorsSummaryAdditional ReadingReviewsImportant Original PapersBooksChapter 8. Sex, Sexuality, and the BrainSexually Dimorphic BehaviorWhat Is Sex?Hormonal Influences on Sexual DimorphismThe Effect of Sex Hormones on Neural CircuitryCentral Nervous System Dimorphisms Related to Reproductive BehaviorsBrain Dimorphisms Related to Cognitive FunctionHormone-Sensitive Brain Circuits in Adult AnimalsSummaryAdditional ReadingReviewsImportant Original PapersBooksChapter 31. Complex Brain FunctionsChapter 26. Each chapter in the textbook has been revamped to include up-to-date information specific to that sub-field of neuroscience. The layout of the material into units is both constructive for the forming of a basic understanding of the field and helpful for fledgling scientists and neuro-connoisseurs alike. Published online 2013 Mar 12. PainNociceptorsThe Perception of PainHyperalgesia and SensitizationCentral Pain Pathways: The Spinothalamic TractThe Nociceptive Components of the Thalamus and CortexCentral Regulation of Pain PerceptionThe Placebo EffectThe Physiological Basis of Pain ModulationSummaryAdditional ReadingReviewsImportant Original PapersBooksChapter 11. Concepts are presented in a clear, logical format with a breadth of visually stimulating material and student-friendly features such as margin summaries, chapter overviews and study questions. 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Construction of Neural CircuitsThe Axonal Growth ConeNon-Diffusible Signals for Axon GuidanceChemotaxis and RepulsionThe Formation of Topographic MapsSelective Synapse FormationTrophic Interactions and the Ultimate Size of Neuronal PopulationsFurther Competitive Interactions in the Formation of Neuronal ConnectionsMolecular Basis of Trophic InteractionsNeurotrophin ReceptorsThe Effect of Neurotrophins on the Differentiation of Neuronal FormSummaryAdditional ReadingReviewsImportant Original PapersBooksChapter 24. 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The Organization of the Nervous SystemThe Cellular Components of the Nervous SystemNerve CellsNeuroglial CellsNeural CircuitsNeural SystemsSome Anatomical TerminologyThe Subdivisions of the Central Nervous SystemThe External Anatomy of the Spinal CordThe Internal Anatomy of the Spinal CordThe External Anatomy of the Brain: Some General PointsThe Lateral Surface of the BrainThe Dorsal and Ventral Surfaces of the BrainThe Midline Surface of the BrainThe Internal Anatomy of the BrainThe Internal Anatomy of the Cerebral Hemispheres and DiencephalonThe Ventricular SystemThe MeningesThe Blood Supply of the Brain and Spinal CordSummaryAdditional ReadingPart I. All these ingredients have gone into the construction of this book; we hope they will be conveyed in equal measure to readers at all levels. ContributorsAcknowledgmentsSupplements to Accompany Neuroscience Second EditionIntroductory ChapterChapter 1. 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