

<<分子神经药理学>>

图书基本信息

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内容概要

This cutting-edge and innovative text reflects the latest advances in molecular neuropharmacology. It's the most up-to-date, comprehensive text you can find. Promotes understanding of the relationship between central nervous system function and neuroactive chemicals. Integrates basic principles of neuropharmacology with clinical applications to specific neural functions and related disorders. Offers students and practitioners state-of-the-art coverage of this fast-moving and clinically important field in a reader-friendly style.

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书籍目录

Contributing Authors Preface PART 1. FUNDAMENTALS OF NEUROPHARMACOLOGY 1. BASIC PRINCIPLES OF NEUROPHARMACOLOGY How Drugs work Drugs As Tools to Probe Brain Function Drug Binding Drug Efficacy Dose-Dependent Drug Response Drug Interaction With Receptor Proteins Neuropharmacology in the Molecular Era Molecular Diversity of the Brain 2. NEURONS AND GLIA The Neuron The Cell Body The Axon Dendrites The cytoskeleton and the Transport of Proteins The Synapse Glia Astrocytes Oligodendrocytes and Schwann Cells Microglia Cerebral Blood flow Blood-Brain Barrier 3. ELECTRICAL EXCITABILITY OF NEURONS 4. SYNAPTIC TRANSMISSION 5. SIGNAL TRANSDUCTION PATHWAYS IN THE BRAIN 6. SIGNALING TO THE NUCLEUS PART 2. NEURAL SUBSTRATES OF DRUGS 7. EXCITATORY AND INHIBITORY AMINO ACIDS 8. CATECHOLAMINES 9. SEROTONIN, ACETYLCHOLINE, AND HISTAMINE 10. NEUROPEPTIDES AND PURINES 11. NEUROTROPHIC FACTORS PART 3. NEUROPHARMACOLOGY OF SPECIFIC NEURAL FUNCTIONS AND RELATED DISORDERS 12. AUTONOMIC NERVOUS SYSTEM 13. NEUROENDOCRINE CONTROL OF THE INTERNAL MEDIUM Index

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