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Molecular Mechanisms of Neuronal Responsiveness (Paperback)

By Yigal H. Ehrlich, Robert H. Lenox, Elizabeth Kornecki

Springer-Verlag New York Inc., United States, 2012. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.The interaction of neurotransmitters, neuromodulators and neuroactive drugs with receptors localized at the cell surface initiates a chain of molecular events leading to integrated neuronal responses to the triggering stimuli. Major advancements in the characterization and isolation of receptor molecules have answered many questions regarding the nature of the elements that determine the specificity in these interactions. At the same time, recent studies have provided evidence that delicate regulation by intracellular enzymatic systems determines the efficiency of the stimulus-response coupling process, mediates the interaction between receptors, operates in feedback control mechanisms and transduces signals from the receptors to various effector sites in a highly coordinated fashion. These studies are at the focus of the present volume, which is an outcome of a symposium held at the University of Vermont College of Medicine on March 21-23, 1986, in conjunction with the seventeenth annual meeting of the American Society for Neurochemistry. The symposium has demonstrated clearly that the concerted efforts of investigators in neurophysiology, biochemistry, pharmacology, cell biology, molecular genetics, neurology, and psychiatry are required to...



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