



## Neuronal Recognition Current Topics in Neurobiology

By -

Springer. Paperback. Condition: New. 368 pages. Dimensions: 9.0in. x 6.0in. x 0.9in. An outstanding characteristic of the nervous system is that neurons make selective functional contacts. Each neuron behaves as if it recognizes the neurons with which it associates and rejects associations with others. The specific interneuronal relationships that result define the innate neuronal circuits that determine the functioning of this system. The purpose of this volume is to present some approaches to the problem of neuronal recognition. The volume has been somewhat arbitrarily divided into three sections. In the first section, the overriding theme is the degree of specificity of neuronal recognition. How specific is specificity so precise that the neurites of one neuron will only make synaptic contact with a unique target neuron? If less precise, within what range are the rules for specification that are operative in the embryo still operative at the same level of precision when connections regenerate in the mature organism? Are they still operative in dissociated tissue grown in culture? The second section of this volume contains reviews of morphological studies of synaptogenesis and biochemical studies of synaptic components. Can the morphology of developing cellular contacts provide...



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