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Introduction: Neuroanatomy Video Lab - Brain Dissections
Anatomy and Physiology of Nervous System Part I Neurons

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The final section reviews our rapidly expanding knowledge of the molecular factors that induce an undifferentiated cell to become a neuron, and then guide it to form appropriate synaptic connections with its partners. This section also focuses on the role of ongoing experience and activity in shaping these connections, and finishes with an account of mechanisms thought to underlie the phenomena of learning and memory.

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The Neuron: Cell and Molecular Biology contains scores of color figures and fully updated chapters; online content packaged exclusively with the Fourth Edition includes detailed animations of neural processes, in-depth supplemental reading, and additional full-color figures and tables. Contents, Preface to the Fourth Edition I.

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Introduction 1.

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Abstract The Fourth Edition of The Neuron provides a comprehensive first course in the cell and molecular biology of nerve cells. It begins with properties of the many newly discovered ion channels that have emerged through mapping of the genome and which shape the way a single neuron generates varied patterns of electrical activity.

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The first part of the book covers the properties of the many ion channels that shape the way a single neuron generates varied patterns of electrical activity, as well as the molecular mechanisms that convert electrical activity into the secretion of neuro

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