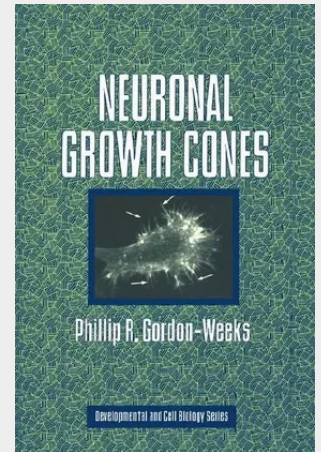


Neuronal Growth Cones

'I had the good fortune to behold for the first time that fantastic ending of the growing axon. In my sections of the spinal cord of the three day chick embryo, this ending appeared as a concentration of protoplasm of conical form, endowed with amoeboid movements. It could be compared with a living battering ram, soft and flexible, which advances, pushing aside mechanically the obstacles which it finds in its path, until it reaches the region of its peripheral termination. This curious terminal club, I christened the growth cone.' (Santiago Ramón y Cajal, Recollections of My Life, 1937). In Neuronal Growth Cones, Phillip Gordon-Weeks presents the molecular biology of the behavior of growth cones. The book covers the basic morphology and behavior of growth cones, motility and neurite extension via the growth cone cytoskeleton, pathfinding, intracellular signalling, and synaptogenesis. It is the first detailed, critical analysis of all aspects of growth cone biology.

In Neuronal Growth Cones, Phillip Gordon-Weeks explores the molecular biology of the behavior of growth cones, conical-like endings of the growing axon. He covers the basic morphology and behavior of growth cones, motility and neurite extension via the growth cone cytoskeleton, pathfinding, intracellular signaling, and synaptogenesis. A detailed, critical analysis of all aspects of growth cone biology, this incisive reference is an essential work for advanced graduate students, postgraduates, and researchers in cellular and molecular neuroscience, developmental biology, and anatomy.



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