



Cell Biology of the Axon

By Edward Koenig

Springer-Verlag Gmbh Sep 2009, 2009. Buch. Book Condition: Neu. 235x155x28 mm. Neuware - Recent years have witnessed striking advances in research on axons at a cellular level that substantially impact our current understanding of axonal biology. Newer findings and their ramifications are critically reviewed in the 16 chapters of this volume by authors highly qualified by virtue of their scientific contributions to research areas they know and write about. Five basic areas (I to V) germane to axonal biology are highlighted, beginning with (I) signaling interactions mediating myelination, and differentiation of axonal membrane domains; (IIa) issues surrounding organization and transport dynamics of neurofilaments in axons, (IIb) mechanisms regulating microtubule organization and dynamics, misregulation of which causes axonal degeneration, and (IIc) the roles actin binding proteins play in regulating organization and functions of the actin filament system in mature and growing axons; (IIIa) myosin motor proteins and cargoes intrinsic to the axon compartment, (IIIb) mitochondrial transport motors, and imperatives governing transport dynamics and directional delivery, (IIIc) mechanisms mediating retrograde signaling associated with NGF's role in trophic-dependent neuronal survival, and (IIId) potential for impaired subcellular targeting of a -synuclein as a mechanism for accumulation of Lewy body inclusions in synucleinopathies; (IVa) occurrence...



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