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Model for the study of plasticity of the human nervous system: features of residual spinal cord motor activity resulting from established post-traumatic injuryResponses of diseased muscle to electrical and mechanical intervention; Final general discussion; Index of contributors; Subject index

Sommario/riassunto

Presents new information on the mutual interaction of skeletal muscle fibers and motoneurons at all levels, from the physiological to the molecular. Covers genetic, physiological, and hormonal factors affecting skeletal muscle development, control of acetylcholine receptor gene expression, selection and organization of motoneurons, and remodelling and refinement of synaptic inputs under the influence of muscle-derived growth factors. Also discusses the plasticity of the neuromuscular system during regeneration after injury, and in the modification of muscle properties and movement patterns in