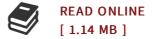




## Spinal Circuits and the Musculoskeletal System

By Segal

Karger, 2011. Taschenbuch. Book Condition: Neu. Gebraucht -Sehr gut - ungelesen, sehr guter Zustand; Rechnung mit MwSt.; unused/unread, very good condition; - This special issue presents a number of basic science studies investigating the interaction of the musculoskeletal system with spinal circuits in movement control and movement dysfunction, particularly in relation to peripheral nerve injury. At the same time, the necessity to translate basic science knowledge into clinical practice is emphasized and models of such a translation are discussed. The papers included in this issue report experiments with animal models such as cats and rats and discuss possible consequences following from these findings. Firstly, it is observed how transection and surgical repair of different nerve groups affect movement control. Also, it is illustrated how the motor system is capable of preserving the trajectories during locomotion in the face of paralysis of major muscle groups. Furthermore, effects of denervation of selected ankle extensors on movement control are tested and analyzed. Finally, the dampening effect of the popliteal fat pad on locomotion is examined, with possible implications for obesity. This special issue furthers the understanding of the locomotor system after lesions and is essential for both basic scientists and clinicians treating...



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