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### **Axonal Branching and Recovery of Coordinated Muscle**

Transplantation of Olfactory Mucosa Minimizes Axonal Branching and Promotes the Recovery of Vibrissae Motor Performance after Facial Nerve Repair in Rats

### **Transplantation of Olfactory Mucosa Minimizes Axonal**

Axonal Branching and Recovery of Coordinated Muscle Activity after Transection of the Facial Nerve in Adult Rats Bearbeitet von Doychin N. Angelov, Orlando Guntinas-Lichius, Konstantin Wewetzer, Wolfram Neiss, Michael Streppel

### **Axonal Branching and Recovery of Coordinated Muscle**

Axonal Branching and Recovery of Coordinated Muscle Activity after Transection of the Facial Nerve in Adult Rats. Authors: Angelov, D.N., Guntinas-Lichius, O ...

### **Axonal Branching and Recovery of Coordinated Muscle**

However, complete functional recovery is rarely achieved even in the PNS although morphologically good axonal regeneration often occurs. This mainly results from aberrant reinnervation due to extensive branching of cut axons with consequent failure of synchronized movements of the muscles.

### **Myelin-associated glycoprotein reduces axonal branching**

Developmental Cell Article Neurexin Restricts Axonal Branching in Columns by Promoting Ephrin Clustering Lina Liu,<sup>1,3</sup> Yao Tian,<sup>1,3</sup> Xiao-yan Zhang,<sup>1</sup> Xinwang Zhang,<sup>1</sup> Tao Li,<sup>1</sup> Wei Xie,<sup>1,2</sup> and Junhai Han<sup>1,2,4,\*</sup>  
<sup>1</sup>Institute of Life Sciences, Key Laboratory of Developmental Genes and Human Disease, Southeast University, 2 Sipailou Road, Nanjing 210096, China <sup>2</sup>Co-innovation Center of Neuroregeneration ...

### **Neurexin Restricts Axonal Branching in Columns by**

Implying a direct link between diminished axonal branching and recovery of motor function, our results also show that reinnervation of muscle targets by "foreign" motoneurons can yield good functional parameters, thus revealing the vast possibilities of neuronal plasticity.

### **Transplantation of Olfactory Mucosa Minimizes Axonal**

Stalled mitochondria along the axon correlate with sites of protrusive activity and branch maturation. The first step in axon branching is the formation of axonal filopodia (for reviews see Gallo, 2011, 2013). Next, the entry of microtubules originating in the axon shaft into the filopodia is required, but not sufficient.

### **Mitochondria Coordinate Sites of Axon Branching through**

recovery of distal extremity function after repair. In the early 1900s, ... ular cross-branching occurs in the lumbar and brachial plexus regions. Several studies have demonstrated ... After complete axonal transection, the neuron undergoes a number of

### **Peripheral Nerve Injury and Repair - Northwestern University**

Abstract. Background: Little is known about the long term prognosis for patients the severe acute motor axonal neuropathy (AMAN) form of Guillain-Barré syndrome (GBS), unlike those with acute inflammatory demyelinating neuropathy (AIDP). Objective: To clarify the long term prognosis for patients with AMAN. Methods: Clinical recovery and outcome in 97 consecutive GBS patients were reviewed.

### **Recovery patterns and long term prognosis for axonal**

In injuries affecting greater than 90% of the axon population within a nerve, axonal regeneration is the primary means for recovery 39. To achieve full recovery, the nerve must undergo three main processes: Wallerian degeneration (the clearing process of the distal stump), axonal regeneration, and end-organ reinnervation.

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