Neuromuscular synaptic differentiation of a crab motoneuron in four separate muscles

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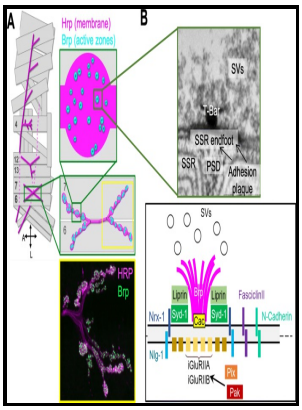

Description: -
-Neuromuscular synaptic differentiation of a crab motoneuron in four separate muscles
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Canadian theses = -- Thèses canadiennesNeuromuscular synaptic differentiation of a crab motoneuron in four separate muscles
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Selective vulnerability and pruning of phasic motoneuron axons in motoneuron disease alleviated by CNTF

Altogether, these immunochemical and pharmacological results showed that glutamate, but not ACh, is initially involved in hindlimb muscle activation, whereas NMJ transmission becomes ACh-mediated and increasingly efficient increase in response amplitude, reduction in transmission delay from stage 55 onwards. Guo X, Gonzalez M, Stancescu M. Negative molds were fabricated on silicon wafers by multilayer photolithography using SU-8 photoresists MicroChem.

Optomechanics reveals transmitter roles in neuromuscular junctions

C As a result, AChR clusters are concentrated at a high density in the area underneath the nerve terminal maximizing the efficiency of neuromuscular transmission. These indicators are very arbitrary and can vary to some extent. Our video processing analysis is based on analyzing the response of the whole muscle tissue and not just muscle force.

Electromyography of muscles

Nevertheless, the structure of CNS and neuromuscular synapses are similar in several important respects, suggesting that similar mechanisms might regulate their differentiation. Finally, we show the capacity of the system to detect the presence of myasthenia gravis autoantibodies by incorporation of patient serum, showing differential responses to sera from different donors.

Synaptic Differentiation in a Regenerating Crab

The ventral root bursts occurred in phase with EMG bursts in the recorded ipsilateral hindlimb muscle and in alternation with bursts in the contralateral myotome , control. Thus our data show for the first time that in metamorphosing Xenopus, MNs that innervate the newly emerging hindlimbs first develop through the employment of a transient, but functional, alternative transmitter mechanism before a conventional and definitive cholinergic phenotype appears. Takahashi K, Tanabe K, Ohnuki M.

Bioreactor model of neuromuscular junction with electrical stimulation for pharmacological potency testing

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