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Thesis title :

Activity dependante synaptic plasticity in motor spinal networks

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Abstract

In our group, we study the activity-dependent synaptic plasticity of glutamatergic spinal connexions. In this project, we propose to test the efficiency of different electrical and chemical protocols in inducing plastic changes in the glutamatergic synapses received by motoneurons. These neurons will be recorded in both spinal cord slices and spinal neuron cultures. Electrophysiological approaches will be combined with immunohistochemistry and molecular biology.

Qualification required

Good knowledge in neurosciences