**General neurophysiology**

***Student‘s protocol***

1. **Write down the main neurotransmitters, their functions, mechanisms of action, areas where they are produced, receptors and ways of degradation or removal from the synaptic cleft.**
2. **Explain these terms and draw the voltage responses on the membrane of the postsynaptic neuron related to these terms.**
* EPSP
* IPSP
1. **Draw the neuronal network connections for the case of lateral inhibition.**
2. **Explain these terms:** length constant

time constant

1. **Fill in the table:**

|  |  |
| --- | --- |
| Factors decreasing nerve conduction velocity | Factors increasing nerve conduction velocity |
|  |  |

1. **Fill in the results obtained during the practical. You will measure the latency of evoked EMG M-waves of your volunteers *m. abduktor pollicis longus* using electrical stimulation of *n. medianus*. You will then calculate the speed of conduction on this nerve.**

|  |  |  |
| --- | --- | --- |
| Stimulation place | Latency (ms) | Amplitude (mV) |
| Wrist |  |  |
| Elbow |  |  |
| Distance between wrist and elbow (mm) |  |
| Conduction velocity (m/s) |  |

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Teacher’s signature