

Bion School

Report from the course at the University of Helsinki “Electrophysiological Applications in Neurophysiology”.

On this course we have concentrated on the electrophysiological methods applied to the standard neuroscience models. We have learned how to prepare the experimental setup, make the extracellular and slicing solutions and to prepare the brain slices for the experiment. During these two weeks we worked on the hippocampal areas CA1, CA3 and shaffer collaterals. On the first week we have concentrated on Local Field Potentials recordings. On the second week we worked with the intracellular recordings using patch-clamp whole cell. We have applied these recording methods to the next protocols: low magnesium epilepsy model, Long Term Potentiation and Depression, Pair-Pulse Depression and Facilitation, I-V curves and and pharmacological application of GABA, AMPA and NMDA antagonists.

