Micro-Electrode Recording

Application Description

Researchers now have access to powerful BIOPAC hardware and software combinations that allow them to record signals from a wide range of microelectrodes on organisms, organs, tissues, brain slices, and cells.

Researchers can use up to 16 MCE100C amplifiers simultaneously to record in-vivo or in-vitro signals. The MCE100C has a very flexible interface (with options for a driven or grounded shields, negative capacity generation and current clamping) to customize electrodes for the recording environment.

Selected Research Citations Below

**Search online for more than 1,200 BIOPAC citations for Micro-Electrode Recording**

**Carbon multi-electrode arrays as peripheral nerve interface for neural recording and nerve stimulation**

**Alterations in physical and neurocognitive wellness across recovery after ACLR: A preliminary look into learned helplessness**

**Relationship between muscle metabolic rate and muscle torque complexity during fatiguing intermittent isometric contractions in humans**

**Rhythmic calcium transients in smooth muscle cells of the mouse internal anal sphincter**

**Quadriceps muscle function following anterior cruciate ligament reconstruction: systemic differences in neural and morphological characteristics**

**Apical splenic nerve electrical stimulation discloses an anti-inflammatory pathway relying on adrenergic and nicotinic receptors in myeloid cells**

**Mapping the brain-wide network effects by optogenetic activation of the corpus callosum**

**Muscle activity of Bulgarian squat. Effects of additional vibration, suspension and unstable surface**
Joan Aguilera-Castells, et al (2019). Faculty of Psychology, Education Sciences and Sport Blanquerna, Ramon Llull University, Barcelona, Spain

**The central nervous system and muscular system play different roles for chill coma onset and recovery in insects**

Advanced Features

- Stimulation Routines
- Spike Analysis
- Focus Areas Automate Data Selection
- Nernst Equation
- And More

Try MER Tools in the Free AcqKnowledge Demo!