

## Literature About npi SEC 03/05/10 Single Electrode Clamp Systems

### Recording Methods and Voltage Clamp Technique

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### Selection of switching frequency, electrode time constant, capacity compensation

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- ❑ Muller, A., Kukley, M., Uebachs, M., Beck, H., & Dietrich, D. (2007). Nanodomains of single Ca<sup>2+</sup> channels contribute to action potential repolarization in cortical neurons. *J Neurosci.* **27**, 483-495.

### **Voltage-clamp-controlled current-clamp (VCcCC)**

- ❑ Pfeiffer, K., Panek, I., Hoyer, U., French, A. S., & Torkkeli, P. H. (2009). Random stimulation of spider mechanosensory neurons reveals long-lasting excitation by GABA and muscimol. *J. Neurophysiol.* **101**, 54-66.
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### **Coating of sharp microelectrodes for VC recordings**

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### Double Cell Recordings / Gap Junctions

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### Simultaneous recordings with two SEC amplifiers

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### **Tracer injection and intracellular recording**

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### **Visualization, imaging and infrared video microscopy**

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### **Recordings from cardiac cells**

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### **LTP / LDP /LTD Investigations**

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### **Performance test with active cell model**

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