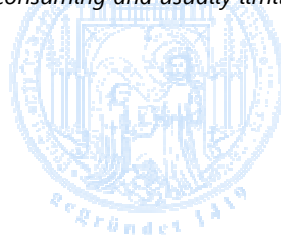


### **Local Micro-Invasive Needle Electroporation - A Technical Challenge.**

Tautorat, C., Köster, P. J., Podssun, A., Beikirch, H., Gimsa, J., Jonas, L., Baumann, W., 2008. In A. Stett (Ed.): Conference proceedings of the 6th International Meeting on Substrate Integrated Micro-Electrode Arrays. 340–341, BIOPRO Baden-Württemberg GmbH, Stuttgart. ISBN 3-938345-05-5. MEA Meeting 2008, 08.-11. July. Reutlingen, Germany.

**Abstract:** *In our paper, we present a new sensor chip system for intracellular potential measurements of adherently growing cells using the novel technique of Local Micro-Invasive Needle Electroporation (LOMINE). LOMINE enables the electrical connection between cytoplasm and the needle-shaped measuring electrode. The silicon sensor chips comprise 64 micro-structured needle electrodes arranged in  $8 \times 8$  arrays for parallel intracellular measurements. Existing techniques for intracellular investigations are more time-consuming and usually limited to the analysis of suspended cells.*

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