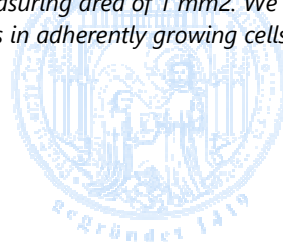


## **A new Principle for intracellular Potential Measurements of adherently growing Cells.**

Köster, P. J., Tautorat, C., Podssun, A., Gimsa, J., Jonas, L., Baumann, W., 2008. In A. Stett (Ed.): Conference proceedings of the 6th International Meeting on Substrate Integrated Micro-Electrode Arrays. 274–277, BIOPRO Baden-Württemberg GmbH, Stuttgart. ISBN 3-938345-05-5. MEA Meeting 2008, 08.-11. July. Reutlingen, Germany.

**Abstract:** *The investigation of cellular reactions in living cell cultures gets increasingly into focus of drug development and environmental monitoring. Existing classical methods for intracellular measurements are time-consuming and complex. Existing Patch-on-chip systems are limited to the investigation of suspended single cells. Nevertheless, most cells in the human body are adherently growing. To address this problem, we are developing a new chip system with 64 micro-structured needle electrodes arranged within a measuring area of 1 mm<sup>2</sup>. We believe that the intracellular investigation of electro-chemical properties and processes in adherently growing cells will become possible with our new analytical chip.*

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