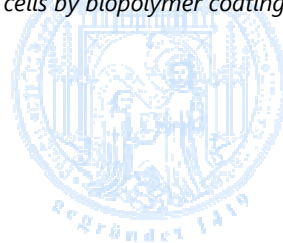


## **Dielectrophoretic Positioning of Cells for the Measurement of intracellular Potentials using Kidney-Shaped Electrodes.**

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. 322–323, BIOPRO Baden-Württemberg GmbH, Stuttgart. ISBN 3-938345-05-5. MEA Meeting 2008, 08.-11. July. Reutlingen, Germany.

**Abstract:** *The combination of cell culture with new technical measuring principles leads to a number of problems, e.g. the positioning of specific cells at sites of interest, such as micro-electrodes. Additionally, a high number of cells hinder the measurement of single cell signals. Both problems can be tackled combining active dielectrophoretic positioning of cells at desired chip locations and by longterm fixation of cells by biopolymer coatings.*

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