The Physiocontrol-Microsystem (PCM): Analysis of Cellular Behaviour for Biomedical Research.

Brischwein, M., Baumann, W., Ehret, R., Kraus, M., Lehmann, M., Wolf, B., 1998. *In* W. Ehrfeld (Ed.): Microreaction Technology. 251–258, Springer-Verlag GmbH, Heidelberg. ISBN 978-3-642-72078-9.

Abstract: Microsensors provide instruments particularly suited for the noninvasive analysis of cell and tissue cultures. Their outstanding benefit is the passive behaviour of continuously working transducers, which allows the dynamic recording of function-specific cellular processes. The microsensor system presented is a modular arrangement of various planar and non-planar sensor elements arranged in small cell culture chambers. An optic access to the cultures (e.g. for high resolution light microscopy and spectro-photometric techniques) enables a parallel and comparative data acquisition. The system was originally designed for biomedical research in chemotherapy and pharmacology but it turned out to be an effective device for toxicological and environmental research as well.

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