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SEMINAIRE IPCMS

Direct interfacing of Cells with Microelectronics

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Vendredi 28 mai 2010 à 15 Heures
Auditorium de l'IPCMS

Microfabrication techniques and, in particular, CMOS technology have been used to devise bioelectronic microsystems. CMOS-based, fully integrated microelectrode arrays for bidirectional communication (stimulation and recording) with electrogenic cells, such as heart cells and neurons, will be presented. These devices are capable of monitoring relevant electrophysiological responses of cells to electrical stimuli or to pharmacological agents with prospective applications in the field of bio-inspired information processing or pharmascreening.

Pour rencontrer le conférencier veuillez prendre contact avec Bernard Doudin par mél : bdoudin@ipcms.u-strasbg.fr