Gold Shark Teeth Structures on MEAs - Electroplating of Nano-Structures on Metallic Microelectrodes.


Abstract: To improve the signal quality of MEA chips, we enlarged the electrode surfaces of two different chip types: a glass neurochip with 52 Pt-electrodes and a silicon neurochip with 58 Pd/poly-silicon electrodes. The electrodes were electroplated with gold particles. First results regarding test signal transmission are given in this report.