Electrodeposition of a biopolymeric hydrogel: potential for one-step protein electroaddressing.

Abstract
The electrodeposition of hydrogels provides a programmable means to assemble soft matter for various technological applications and biosensors. In this study, a biopolymeric hydrogel system was electrodeposited on a gold-coated glass substrate using a home-built electrochemical cell. A reagentless, single-step method to electroaddress a stimuli-responsive and biofunctionalized hydrogel film is developed here, which could have potential applications in biosensing and biomedicine.

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