

# Biosensors And Bioelectronics

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R Rebelo et al Biosensors and Bioelectronics 130 (2019) 20–39 21 The synthesis process plays an important role, since it can tailor the final hydrogel properties, such as biodegradation, mechanical strength and chemical and biological response to stimuli (Ahmed, 2015; Akhtar

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Aug 05, 2019 · design strategy of biosensors for the detection in real samples requires the pre-concentration of biomarkers during the implementation of SERS measurements, in addition to the large SERS enhancement by SERS substrates Previous studies integrated polymers or magnetic nanos-tructures with SERS substrates for simultaneous enrichment and plas-

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Friedman et al / Biosensors and Bioelectronics 32 (2012) 309–313 described in the literature for cyclic voltammetry (Gopinath and Russell, 2006), to the authors' knowledge, this is the first open-source design of an inexpensive potentiostat that is field ready for long-term chronoamperometry We demonstrated the use of this MCU-based

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Jun 29, 2018 · Y Lu et al Biosensors and Bioelectronics 123 (2019) 167–177 168 semiconductors, the change of resistance at strain  $\epsilon$  can be written as:

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Biosensors and Bioelectronics 85 (2016) 1–7 time of only less than 15 min The simple operation of EDP makes it user-friendly, eliminating the need for a trained laboratory technician to operate the device EDP employs one-step im-munoassay; to operate the test, only one-time user involvement at

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Biosensors and Bioelectronics 42 (2013) 256–260 as AgCl film loss causes a drift in electrode potential resulting in inaccurate signal readings (Yang et al, 2003) In addition to the compromised signal, the dissolved film is toxic and causes

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%LRVHQVRUV DQG %LRHOHFWURQLFV v 4\*\*e vv\* T antibody possesses significant advantages, including specific recognition ability, low cost, inherent robustness, etc

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Biosensors & Bioelectronics is the principal international journal devoted to research, design, development and application of biosensors and bioelectronics It is an interdisciplinary journal serving professionals with an interest in the exploitation of biological materials and designs in novel

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Biosensors and Bioelectronics 61 (2014) 434–442 because the expression level of antigens varies from cell to cell depending on the cell stage and the type of tumor For instance, EpCAM is not expressed in non-epithelial solid malignancies and is downregulated in malignant epithelial cells ...

**A Framework for BIOELECTRONICS Discovery and Innovation**

Bioelectronics is the discipline resulting from the convergence of biology and electronics and it has the potential to significantly impact many areas important to the nation's economy and well-being, including healthcare and medicine, homeland security, forensics, and

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ρLRVHQVRUVDQGρLRHOHFWURQLFVκριαλιλιβκκλππκ) 2005; Kolb et al, 2015), magnetic (Hejazian and Nguyen, 2016; Liu et al, 2009) and hydrodynamic

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May 02, 2018 · AG Venkatesh et al Biosensors and Bioelectronics 119 (2018) 230–236 231 23 Fluorescent and immunochemical assay for yeast secretion validation 50μL cell-free galactose induced media containing the secreted HCV-core:GBP fusion protein was applied to a clean gold electrode

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Biosensors and Bioelectronics ] (]]]]] ]]]-]]] well enhance the optical mode overlap with the analyte, thereby leading to the highest sensitivity demonstrated in the literature,

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F Alam et al Biosensors and Bioelectronics 117 (2018) 818–829 819 immobilization medium should be engineered to provide enhanced electron transport Different strategies have been used to

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Biosensors and Bioelectronics 40 (2013) 368–376 luminescence or colorimetric pigments as outputs However, these biosensors have been typically developed utilizing only the cell native sensory elements without additional layers of genetic processing and regulation, and thus can only detect one

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R Chand, S Neethirajan Biosensors and Bioelectronics 98 (2017) 47–53 48 trations of aqueous graphene (05 and 1 mg/mL) were mixed with 1 mM HAuCl<sub>4</sub> The resultant suspensions were boiled at 100 °C on a hotplate for 30 min to promote their interaction Finally, 388 mM of

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448 J Lee et al / Biosensors and Bioelectronics 87 (2017) 447–452 SiO<sub>2</sub> was used as passivation layer to protect the metal contact leads As shown in Fig 2c, each SiNW device has 5 parallel wires for better device uniformity, stability and less performance variation in com-

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%LRVHQVRUV DQG %LRHOHFWURQLFV phosphate functional group to prevent extension in the opposite direction The 3WJ-primer contained 7 bp-complementary sequences to the

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Biosensors and Bioelectronics 87 (2017) 646–653 measuring capacitance changes due to DNA-DNA hybridization (capacitive biosensors), is the interdigitated microelectrode Microelectrodes are often made using modern photolithographic and deposition techniques on glass, silicon, or ...