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An electrochemical immunosensor for brain natriuretic peptide prepared with screen-printed carbon electrodes nanostructured with goldnanoparticles grafted through aryl diazonium salt chemistry

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Abstract

A sensitive amperometric immunosensor has been prepared by immobilization of capture antibodies onto gold nanoparticles (AuNPs) grafted on a screen-printed carbon electrode (SPCE) through aryl diazonium salt chemistry using 4-aminothiophenol (AuNPs-S-Phe-SPCE). The immunosensor was designed for the accurate determination of clinically relevant

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