Electrochemical anti-cancer drug effect detection using cyclic volatammetry techniques

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The biological surfaces were fabricated for the immobilization of cancer cell (*HepG2*) using self-assembled peptide (CRGD-MAP). Cancer cells were immobilized and cultured on the designed oligopeptide SA layer. SPR and AFM study showed the thin film fabrication and immobilization of *HepG2* on CRGD layer. The exposure to anti-cancer drugs activates the apoptotic signaling pathway induced to change the biochemical integrity of immobilized cells, resulting in decreasing the current of cyclic voltammogram.

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