

Supporting Information (SI)

*for*

**An ultra-low level detection of hepatocellular carcinoma global  
methylation using AuNPs modified carbon fiber microelectrode**

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Table S1: Sequences of DNA oligonucleotides and primers.

Oligos	5'-3'
Methylated Sequence	AATACCTCGCCCTACTTCGACTCGTACACGATAC G CGCACCCACTAACCTACGCCAC
4 site Methylated Sequence	AATACCTCACCCCTACTTCGACTCATACACGATACG CGCACCCACTAACCTACACCCAC
1 site Methylated Sequence	AATACCTCACCCCTACTTCAACTCATACACGATAC A CACACCCACTAACCTACACCCAC
Unmethylated Sequence	AATACCTCACCCCTACTTCAACTCATACACAATAC A CACACCCACTAACCTACACCCAC
LINE-1-M forward	GTAAGGGGTAGGGAGTTTTTTT
LINE-1-M reward	TCTCAAACACTATACTAACATCAAC
LINE-1-U forward	GCAAGGGGTCAAGGAGTTCCCTTT
LINE-1-U reward	TCAAACGTCAAGGCCGCAGCAAGGCTG
201bp LINE-1- F	AGGCATTGTCTCACTTGGGA
201bp LINE-1- R	CCACGGAGTCTCGCTGATT

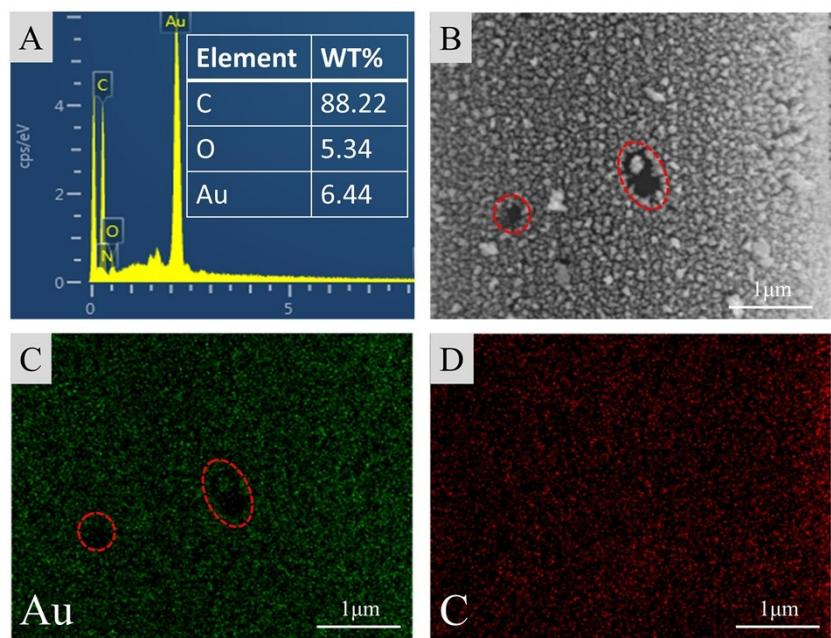


Fig.S1 The elemental distribution of AuNPs-CFME. (A) The EDS spectrum. The inset: the weight ratio of elements. (B) The SEM image. (C) The elemental mapping image of Au. (D) The elemental mapping image of C.

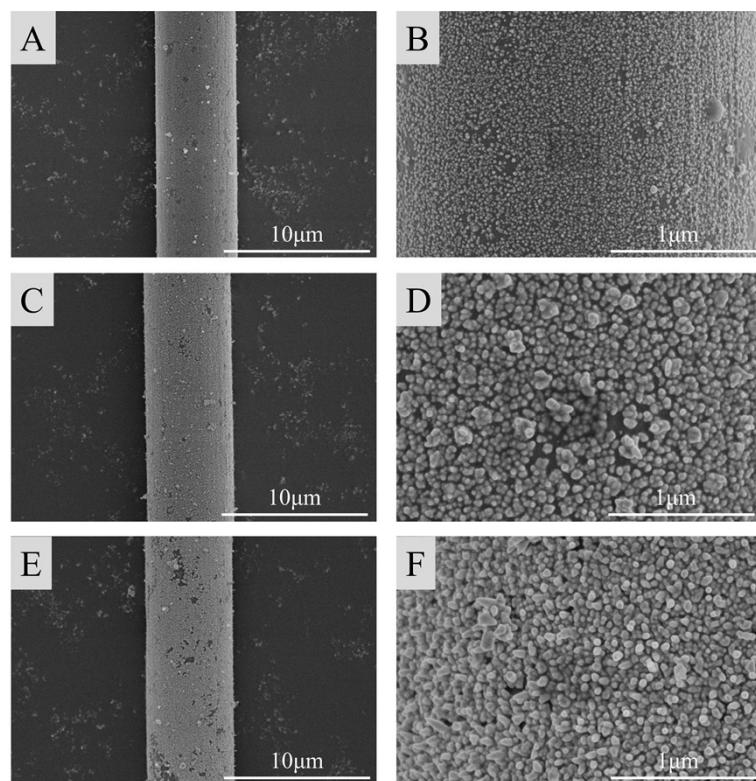


Fig.S2 The SEM images of AuNPs-CFME. (A) (B) 25 s electrodeposition. (C) (D) 100 s electrodeposition. (E) (F) 200 s electrodeposition.