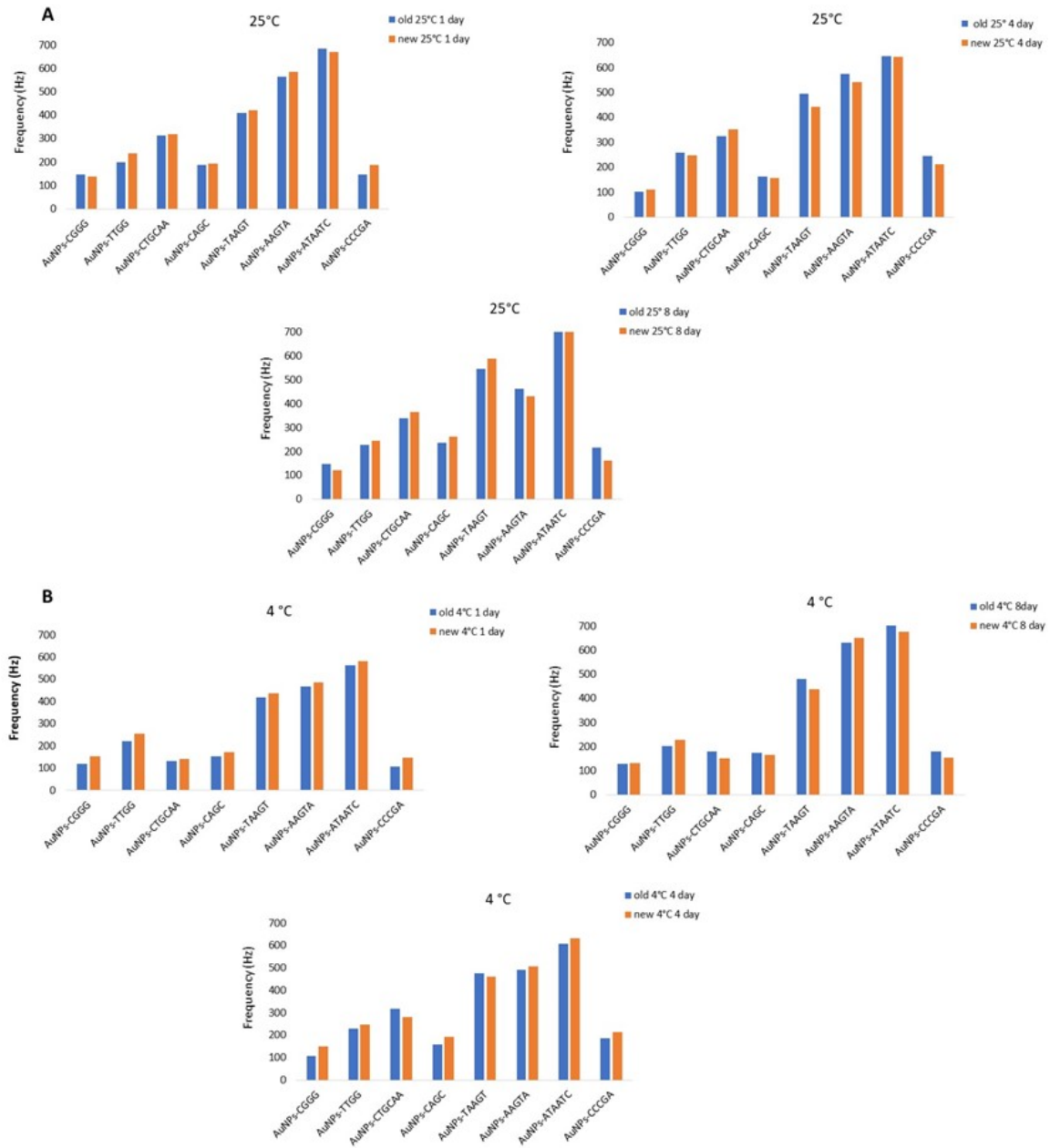


Supplementary Materials:



**Figure S1.** hpDNA-modified sensors array response vs. Octanal after three months from start analysis. (A) Represented the measurements carried out at 25 °C from 1th day to 8th day; (B) measurements carried out at 4 °C from 1st day to 8th day.

**Table S1.** Sequences of different loop size hpDNA.

<i>hpDNA</i>	<i>Sequences</i>
Loop 4	GAAG-TTGG-CTTC
Loop 4	GAAG-CGGG-CTTC
Loop 4	GAAG-CCAG-CTTC
Loop 5	GAAG-TAAGT-CTTC
Loop 5	GAAG-AAGTA-CCTT
Loop 5	GAAG-CCCGA-CTTC
Loop 6	GAAG-ATAATC-CTTC
Loop 6	GAAG-CTGCAA-CTTC