

## Supporting Information:

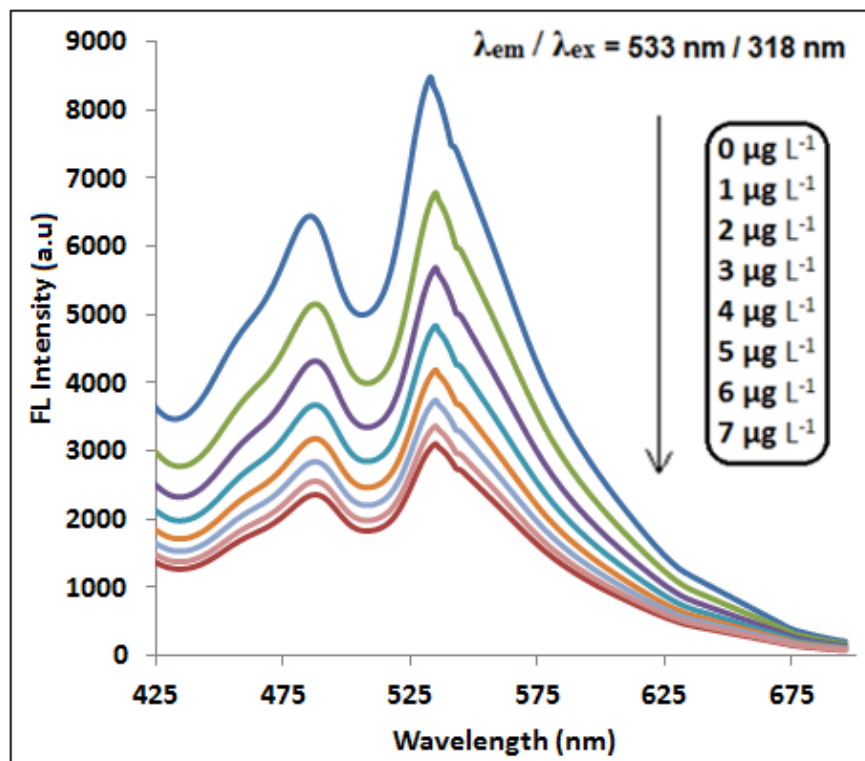
### TNPs as a novel fluorescent sensor for selective recognition of fast green FCF: Spectrofluorimetric Approach

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**Table S1: Estimated fluorescence decay profile**

TNPs with Amount of fast green FCF dye added ( $\mu\text{g L}^{-1}$ )	Average fluorescence lifetime
0.0	2.920
1.0	2.870
2.0	2.865
3.0	2.865
4.0	2.860
5.0	2.860
6.0	2.850
7.0	2.850



**Fig. S1** FL spectra of TNPs suspension ( $2 \mu\text{g L}^{-1}$ ) in the presence of increasing concentration of fast green FCF dye ( $0, 1, 2, 3, 4, 5, 6, 7 \mu\text{g L}^{-1}$ )