

Supplementary Information

Study of the Structure-Activity Relationship of Flavonoids Based on Their Interaction with Human Serum Albumin

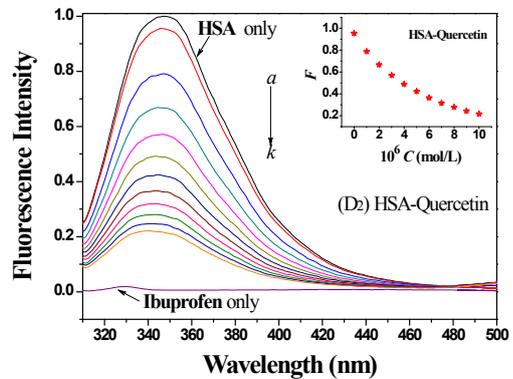
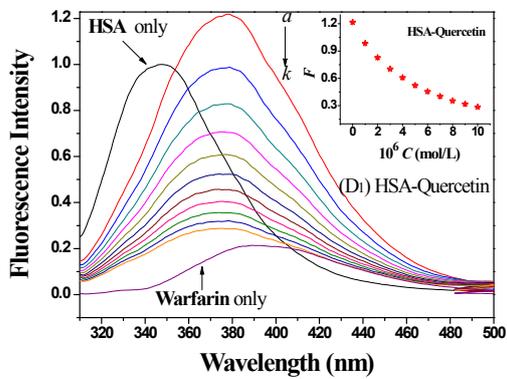
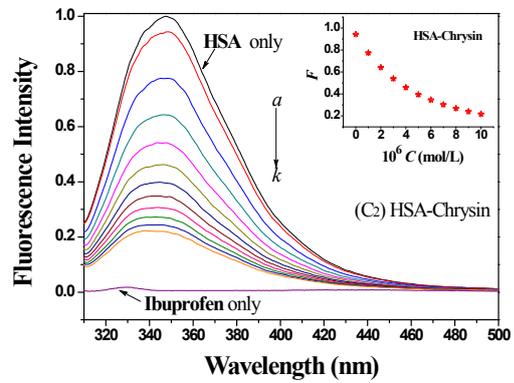
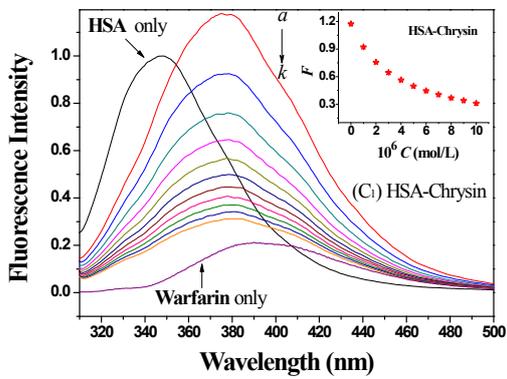
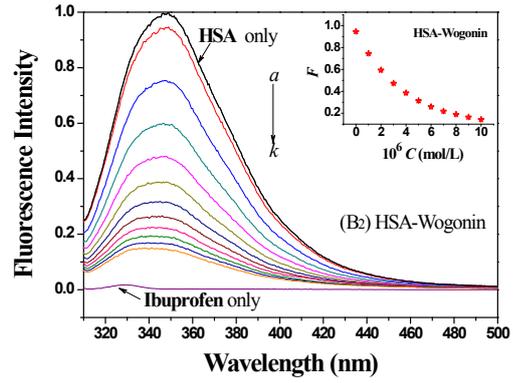
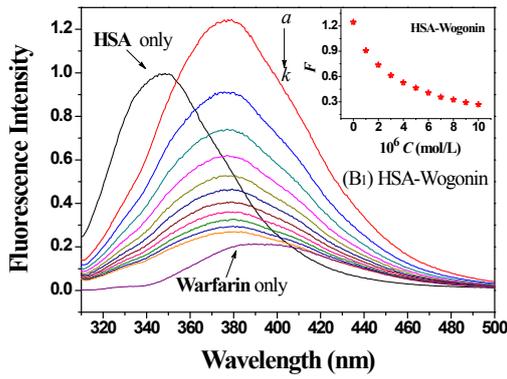
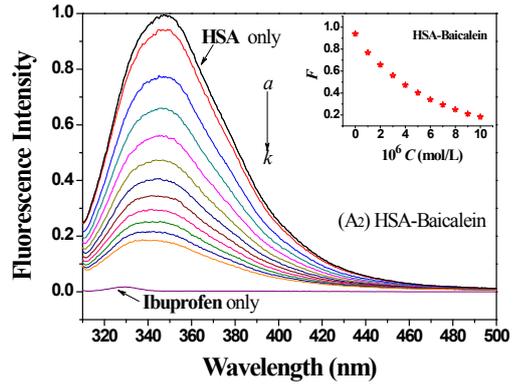
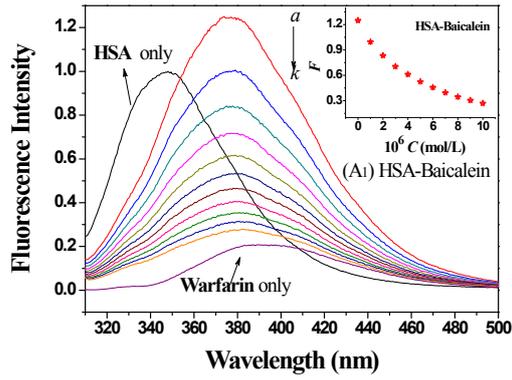
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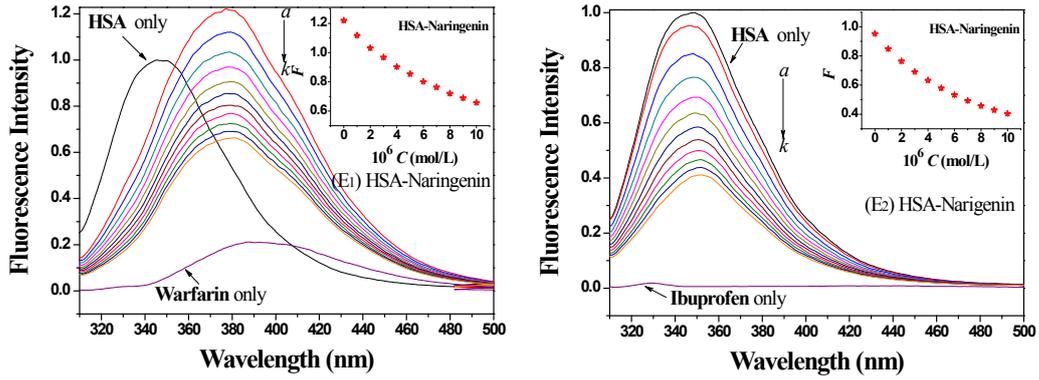


Figure S1. Effect of site marker on the HAS-flavonoids systems ($T = 298\text{ K}$, $\lambda_{\text{ex}} = 295\text{ nm}$). $a-j$: $c(\text{site marker}) = c(\text{HSA}) = 5.0 \times 10^{-6}\text{ mol}\cdot\text{L}^{-1}$, $c(\text{flavonoids})/(10^{-6})$, from 0.0 to 10.0 $\text{mol}\cdot\text{L}^{-1}$ at an increment of 1. Figures A₁–E₁ display the emission spectras of HSA-Warfarin system after addition flavonoids, Figures A₂–E₂ display the emission spectras of HSA-Ibuprofen system after addition flavonoids, the inserts correspond to the fluorescence intensity with addition of flavonoids.

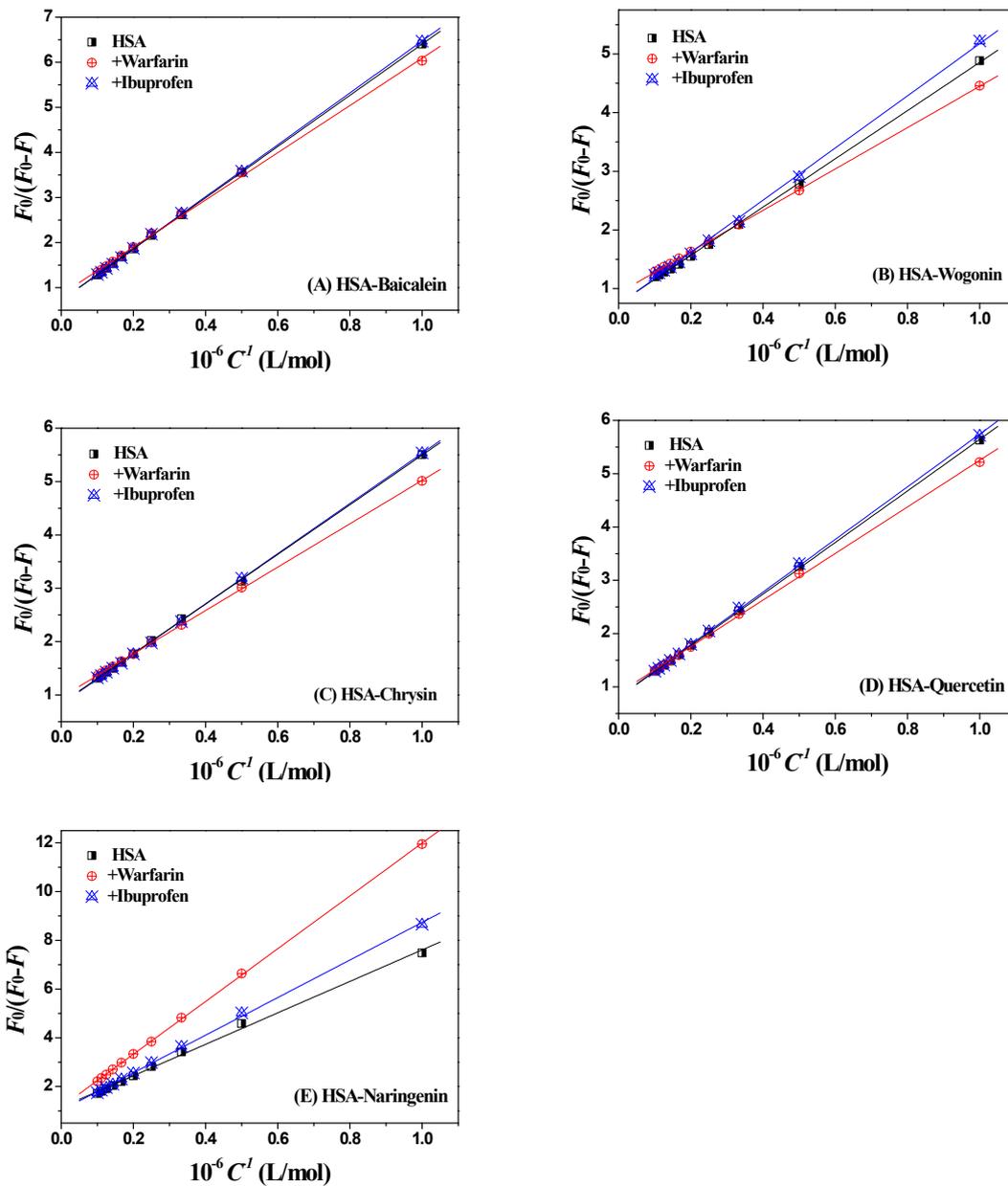
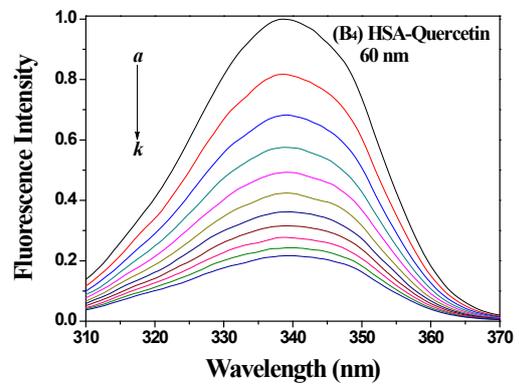
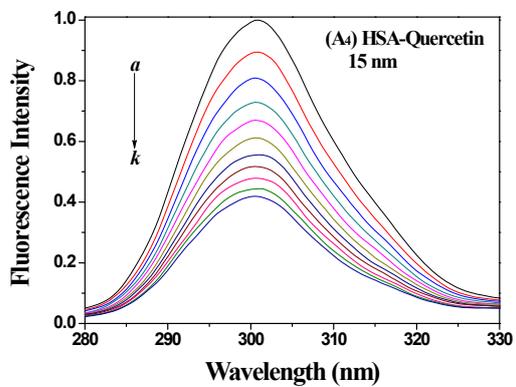
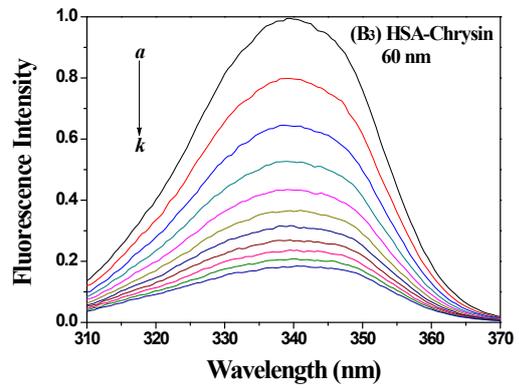
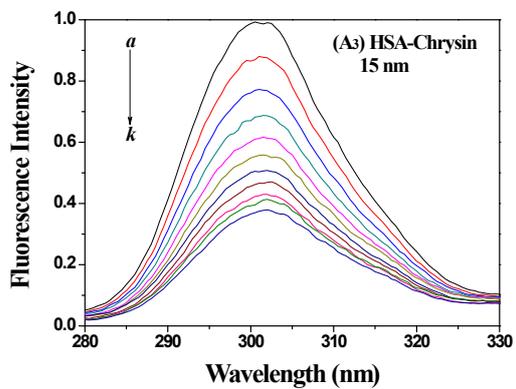
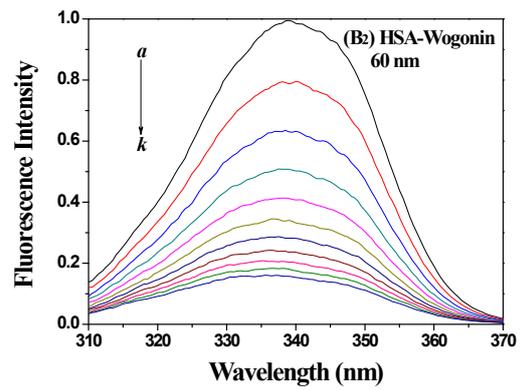
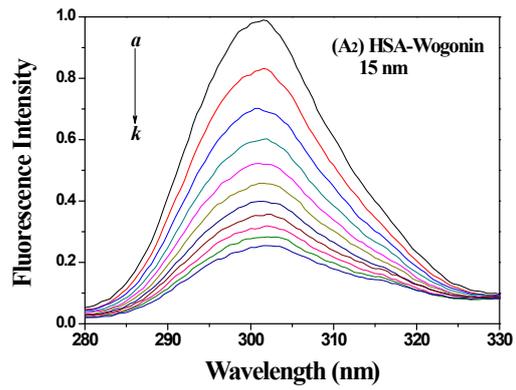
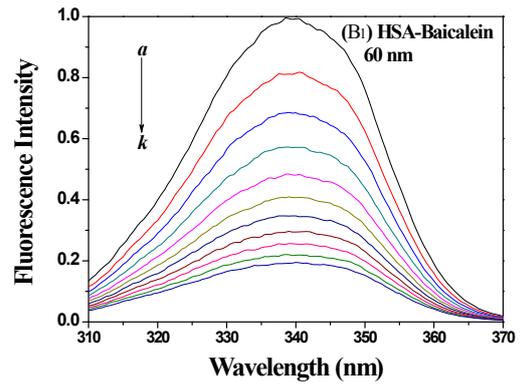
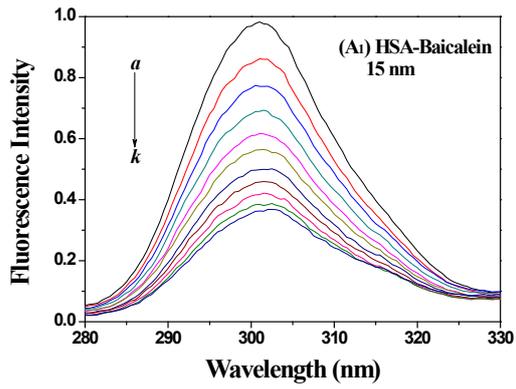


Figure S2. Modified Stern-Volmer plots of HSA-flavonoids binding competitive experiments. Figures A–E display modified Stern-Volmer plots of baicalein, wogonin, chrysin, quercetin and naringenin system, respectively.



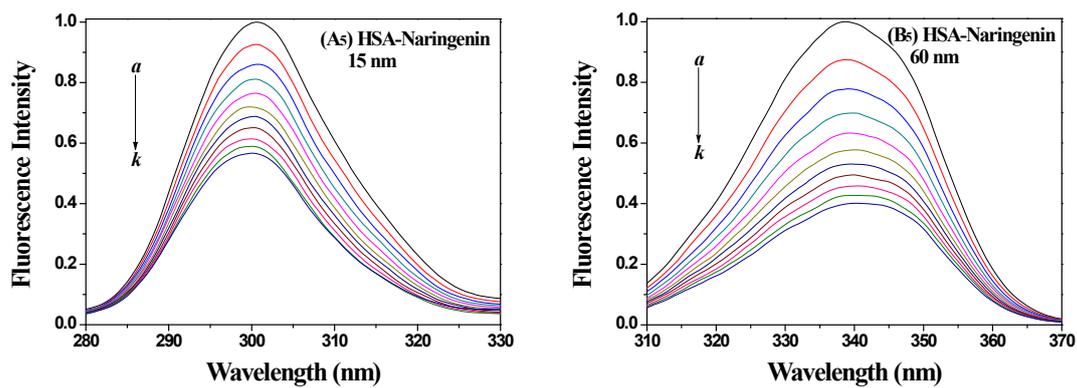


Figure S3. Synchronous fluorescence spectras about HSA–flavonoids. Figures A₁–A₅ display emission spectras in the addition of different flavonoids when $\Delta\lambda = 15$ nm, Figures B₁–B₅ display emission spectras when $\Delta\lambda = 60$ nm.