

**Specific excitonic interactions in the aggregates of hyaluronic acid and
cyanine dyes with different length of methine group**

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Supplementary Information

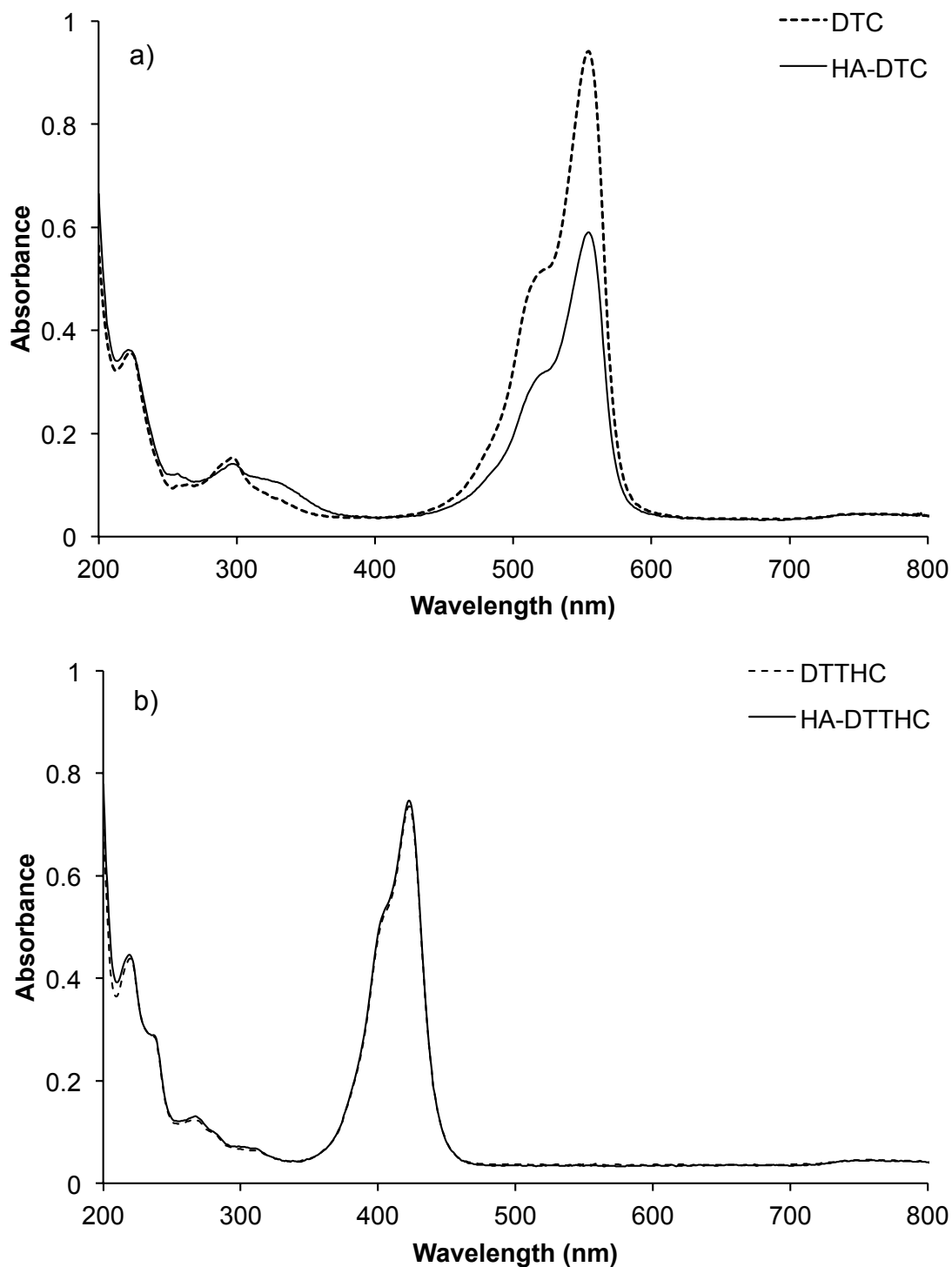


Figure S.1 Absorption spectra of a) DTC and b) DTTHC with or without HA in 2.4 vol% methanol-phosphate buffer ($I = 0.01$, $pH = 7.0 \pm 0.1$) at 20°C . a) Dot line is DTC ($10 \mu\text{mol L}^{-1}$), solid line is HA-DTC ($20 \text{ unit-}\mu\text{mol L}^{-1}$, $10 \mu\text{mol L}^{-1}$, respectively). b) Dot line is DTTHC ($10 \mu\text{mol L}^{-1}$), solid line is HA-DTTHC ($20 \text{ unit-}\mu\text{mol L}^{-1}$, $10 \mu\text{mol L}^{-1}$, respectively).

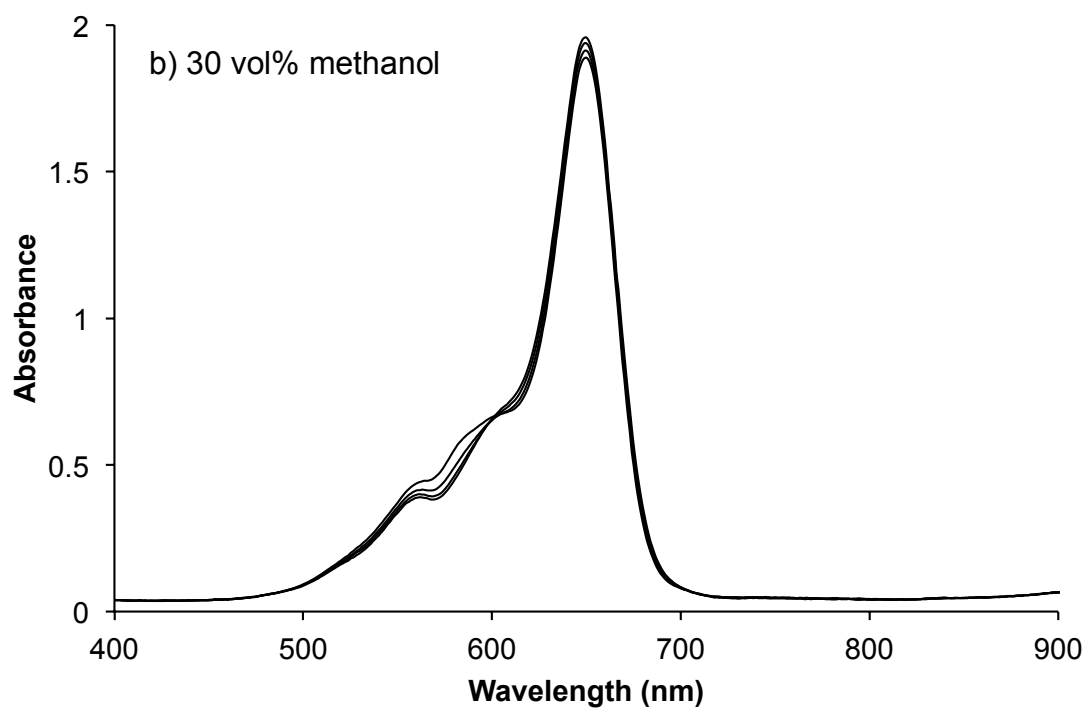
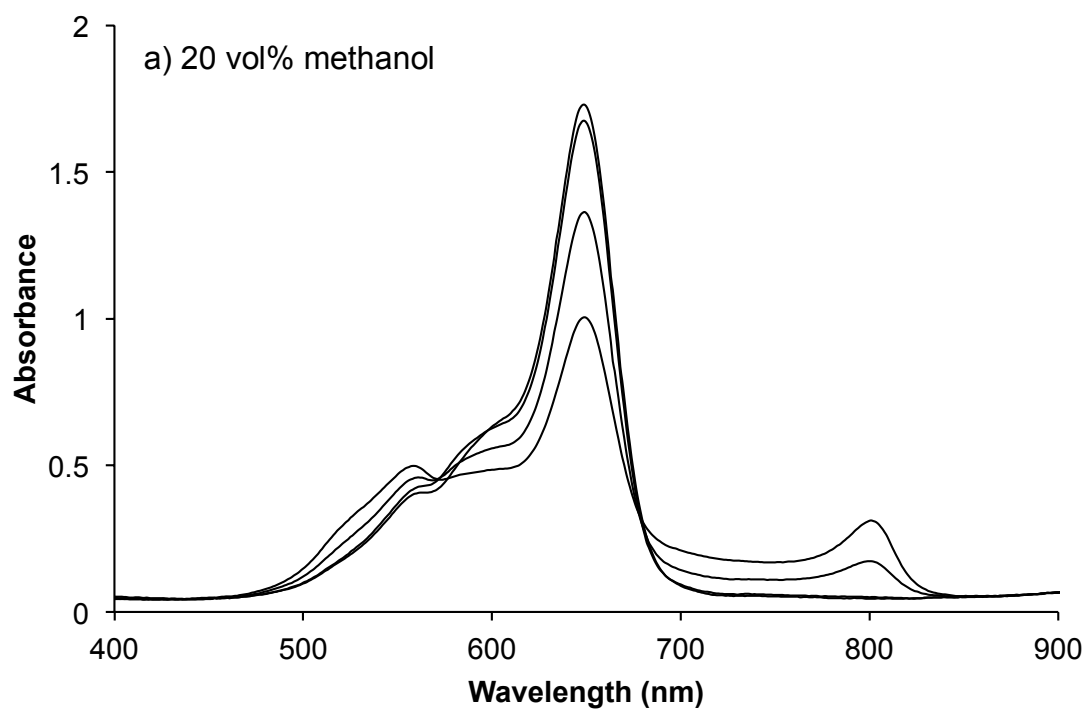


Figure S.2 Absorption spectra of HA-DTDC ($20 \text{ unit-}\mu\text{mol L}^{-1}$, $10 \mu\text{mol L}^{-1}$, respectively) in a) 20 vol% or b) 30 vol% methanol-phosphate buffer ($I = 0.01$, $\text{pH} = 7.0 \pm 0.1$). Temperature range is from 50 to 20°C at 10°C intervals.