

Supplementary Information

Exploring the mode of binding of the bioflavonoid kaempferol with B and protonated forms of DNA by spectroscopic and molecular docking study

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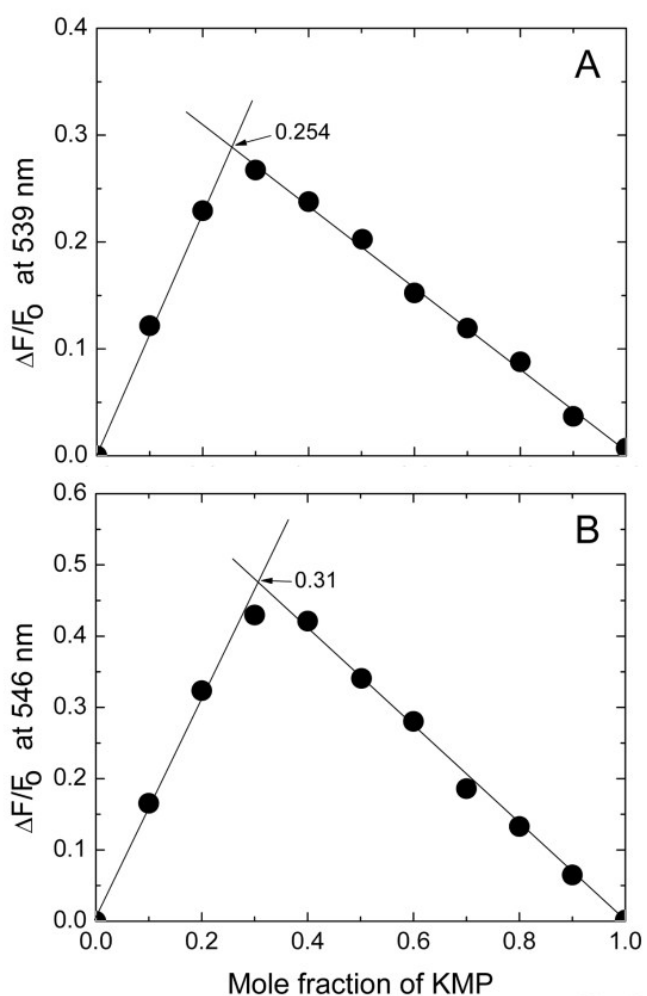


Fig. S1

Fig. S1. Job's plot for the binding of KMP to (A) B DNA in buffer-1 and (B) protonated DNA in buffer-2 at 25 °C and 10 °C respectively. The relative difference in fluorescence intensity at 539 nm for B DNA and at 546 nm for protonated DNA was plotted against the mole fraction fraction of KMP added.

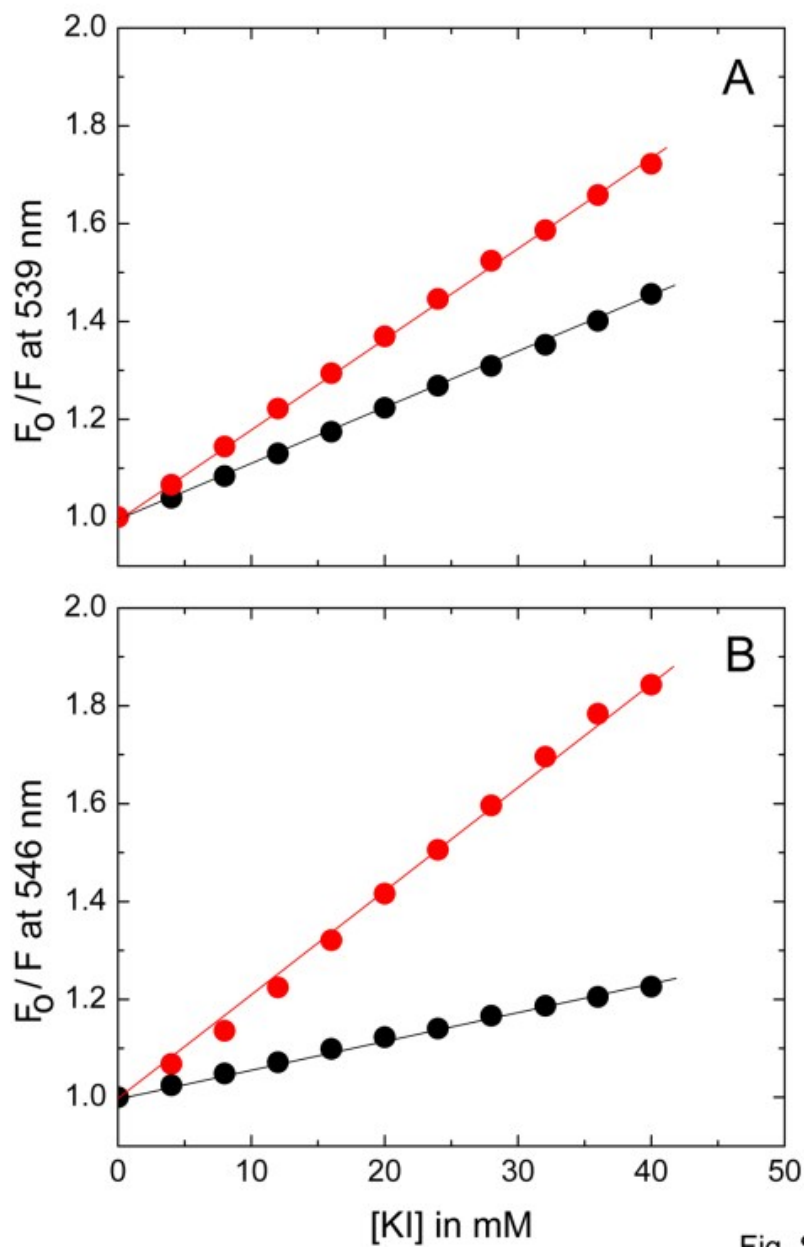


Fig. S2

Fig. S2. Stern-Volmer plots for the quenching of fluorescence of KMP by KI (A) in absence (●) and in presence (●) of B DNA in buffer-1 at 25 °C and (B) in absence (●) and in presence (●) of protonated DNA in buffer-2 at 10 °C.

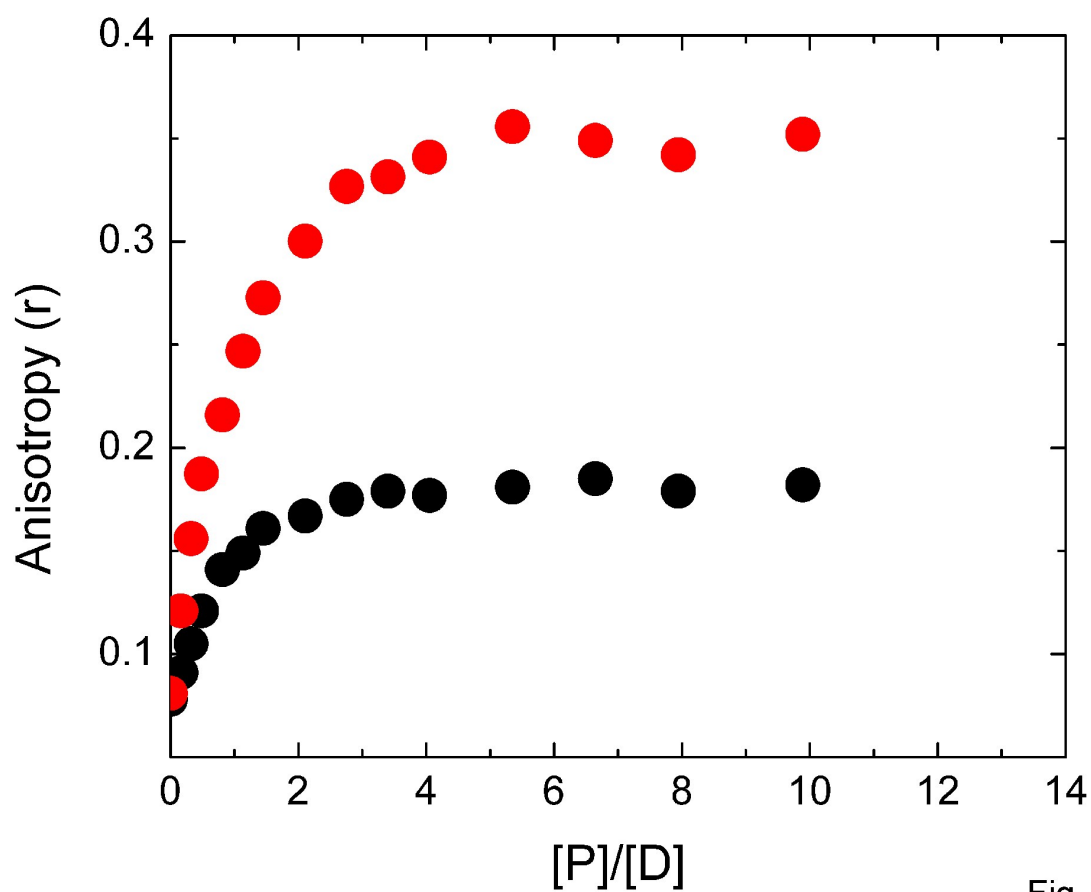


Fig. S3

Fig. S3. Variation of the anisotropy of KMP fluorescence as a function of concentration of B DNA (●) and protonated DNA (●). $\lambda_{\text{ex}} = 373$ and 363 nm when KMP is treated with B DNA and protonated DNA respectively; $\lambda_{\text{em}} = 539$ and 546 nm respectively for B DNA and protonated DNA.