

DT-ART-09-2012-032091

**Competition between Glutathione and DNA Oligonucleotides for
Ruthenium(II) Arene Anticancer Complex**

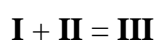
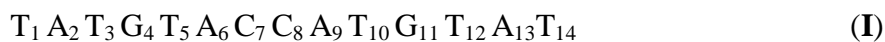
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Electronic Supplementary Information

Table S1

Figure S1

Table S1. ^1H NMR chemical shift assignments (ppm) observed for imino protons of duplex **III** in this work and reported in the literature³¹ (J. A. Parkinson, Y. Chen, P. D. Murdoch, Z. J. Guo, S. J. Berners-Price, T. Brown and P. J. Sadler, *Chem. Eur. J.*, 2000, 6, 3636).



Base	GH1/TH3 ^c	GH1/TH3 (ref 31)
T23 ^a (T6 ^b)	- ^d	13.54
G22(G7)	12.52	12.55
G21(G8)	12.64	12.69
T12(T17)	13.31	13.40
G11(G18)	12.38	12.42
T10(T19)	- ^d	13.48
T5(T24)	- ^d	13.51
G4(G25)	12.32	12.37
T3(T26)	13.31	13.40

^a The numbering for duplex **III** used in this work;

^b The numbering for duplex **III** used in the literature;³¹

^c The numbering is shown in Figure S1(C);

^d The signals are weak and the three peaks are overlapped.

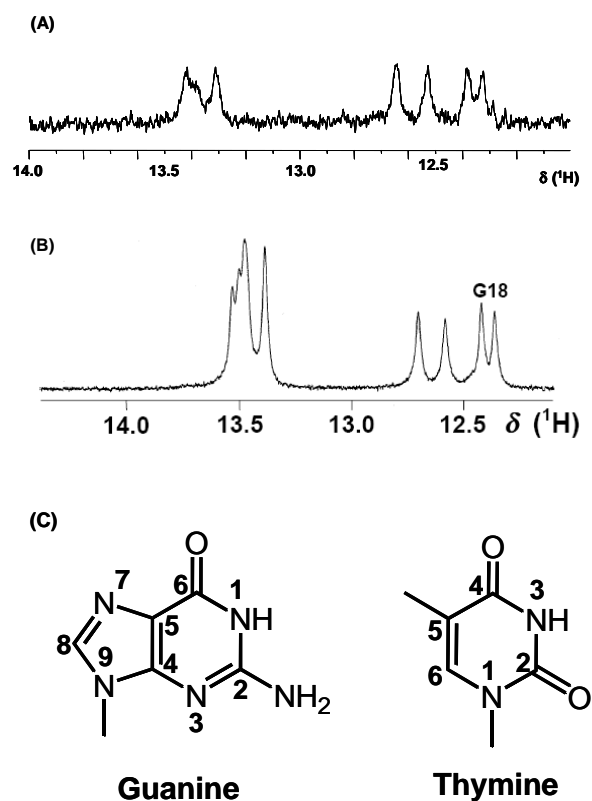


Figure S1. (A) The imino region of the ¹H NMR spectrum of **III** obtained at 288 K; (B) The same region of ¹H NMR spectrum of **III** at 278 K as published previously in the reference³¹ (J. A. Parkinson, Y. Chen, P. D. Murdoch, Z. J. Guo, S. J. Berners-Price, T. Brown and P. J. Sadler, *Chem. Eur. J.*, 2000, **6**, 3636). (C) The chemical structures and numbering for the guanine and thymine bases.