

### Supplementary Information for

Qu, Y., Kipping, R.G. and Farrell, N.P.: Solution Studies on DNA Interactions of Substitution-inert Platinum Complexes mediated *via* The Phosphate Clamp. *J. Chem. Soc. Dalton Trans.* DOI: 10.1039/C4DT03237C

**Table S1** <sup>1</sup>H NMR chemical shift assignments for hexamer d(CGTACG)<sub>2</sub> (6mer) in the absence and presence of TriplatinNC at pH7 and pH6

#### Chemical shifts for 6mer at pH7

	H6/8	H2/H5/CH3	H1'	H2''	H2'	H3'	H4'
C1	7.513	5.774	5.625	2.289	1.906	4.568	n.d.
G2	7.861	N/A	5.837	2.639	2.558	4.841	4.226
T3	7.162	1.405	5.527	2.293	1.989	4.746	n.d.
A4	8.189	n.d.	6.098	2.721	2.589	4.894	4.293
C5	7.155	5.254	5.499	2.142	1.723	4.644	n.d.
G6	7.755	N/A	5.987	2.444	2.215	4.514	n.d.

#### Chemical shifts for 6mer with TriplatinNC at pH7

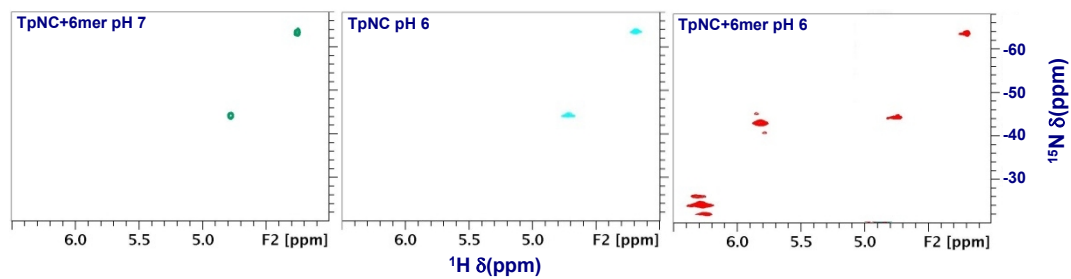
	H6/8	H2/H5/CH3	H1'	H2''	H2'	H3'	H4'
C1	7.508	5.761	5.617	2.281	1.897	4.557	n.d.
G2	7.861	N/A	5.837	2.651	2.556	4.839	4.226
T3	7.164	1.406	5.519	2.284	1.986	4.745	n.d.
A4	8.194	n.d.	6.096	2.721	2.597	4.898	4.296
C5	7.162	5.26	5.505	2.141	1.726	4.651	n.d.
G6	7.755	N/A	5.984	2.445	2.219	4.518	n.d.

#### Chemical shifts for 6mer at pH6

	H6/8	H2/H5/CH3	H1'	H2''	H2'	H3'	H4'
C1	7.494	5.737	5.6	2.266	1.874	4.544	n.d.
G2	7.852	N/A	5.83	2.641	2.548	4.829	4.22
T3	7.159	1.392	5.509	2.279	1.974	4.734	n.d.
A4	8.178	n.d.	6.09	2.712	2.583	4.886	4.281
C5	7.15	5.241	5.495	2.13	1.713	4.629	n.d.
G6	7.74	N/A	5.969	2.442	2.209	4.505	n.d.

#### Chemical shifts for 6mer with TriplatinNC at pH6

	H6/8	H2/H5/CH3	H1'	H2''	H2'	H3'	H4'
C1	7.511	5.766	5.622	2.285	1.9	4.56	
G2	7.865	N/A	5.84	2.657	2.561	4.844	4.232
T3	7.167	1.41	5.524	2.287	1.987	4.745	
A4	8.196	n.d.	6.099	2.723	2.599	4.9	4.299
C5	7.165	5.263	5.507	2.146	1.731	4.651	
G6	7.757	N/A	5.986	2.451	2.224	4.521	



**Fig. S1** 2D  $\{^1\text{H}, ^{15}\text{N}\}$  HSQC NMR spectrum of  $^{15}\text{N}$ -labeled TpNC (left) and with duplex hexamer at pH 7 (mid). And 24 hours after changing the pH to 6 (right), the NMR spectra showed the additional peaks at  $\delta^1\text{H}$  (5.82) /  $^{15}\text{N}$  (-43.0) and  $\delta^1\text{H}$  (6.28) /  $^{15}\text{N}$  (-24.0) ppm.