Electronic Supplementary Information for

Non classical anticancer agents: synthesis and biological evaluation of zinc(II) heteroleptic complexes

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Table S1. Antiproliferative effect of precursors in PC-3 cells (Values are mean of three experiments performed in triplicate . Data are expressed as percentage of cell survival compared to control)

	(48h	96h
Bpy-9	$(1x10^{-5}M)$	73%	59%
Bpy-9	(1x10 ⁻⁶ M)	87%	70%
Hkt	(1x10 ⁻⁵ M)	85%	60%
Hkt	(1x10 ⁻⁶ M)	86%	83%
HQw	(1x10 ⁻⁵ M)	48%	40%
HQw	(1x10 ⁻⁶ M)	76%	68%
НQт	(1x10 ⁻⁵ M)	62%	50%
НQт	(1x10 ⁻⁶ M)	97%	43%
Trop	(1x10 ⁻⁵ M)	79%	60%
Trop	(1x10 ⁻⁶ M)	85%	80%

Percentage of growth inhibition

Table S2 IC50 values of *cis*-platin, complex **1** and [(bpy-16)M(Trop)][OTf] derivatives ³³ against DU145 and LNCaP cells

Complex	IC50 (µM) ± SD DU145	IC50 (µM) ± SD LNCaP
Cis-platin	33±1.0	34 ±0.4
[(bpy-9)Zn(Trop)(Cl)(S)], 1	4.5±0.1	17.0±1.0
[(bpy-16)Pt(Trop)][OTf]	21.2±1.1	70.1±1.1
[(bpy-16)Pd(Trop)][OTf]	23.4±0.1	61.0±1.2





Fig. S2 UV/vis spectra of ligands in ethanol solution at 7.4 pH (phospfate buffer) in fresh solution and of complexes **1-8**, in methanol solution at 7.4 pH (phospfate buffer) in fresh solution after 24, 48 and 96 h.



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Complex 1



Complex 2

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Complex 7



Complex 4



Complex 6



Complex 8