

Supplementary Information

"Nanoparticle-Mediated Radiotherapy: Unraveling Dose Enhancement and Apoptotic Responses in Cancer and Normal Cell Lines "

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Table S1 α (alpha), β (beta) and α/β parameters for 0 hours Post-Irradiation.

(Gy ⁻¹)	SiHa		Caski		HCK1T	
	Cells	Cells+AuNPs	Cells	Cells+AuNPs	Cells	Cells+AuNPs
α	0.59	0.82	0.59	0.58	0.63	0.64
β	0.09	0.16	0.09	0.10	0.10	0.10
α/β	6.64	5.00	5.64	5.64	6.41	6.30

Table S2 α (alpha), β (beta) and α/β parameters for 24 hours Post-Irradiation.

(Gy ⁻¹)	SiHa		Casky		HCK1T	
	Cells	Cells+AuNPs	Cells	Cells+AuNPs	Cells	Cells+AuNPs
α	0.81	0.98	0.59	0.66	0.56	0.56
β	0.15	0.19	0.10	0.11	0.09	0.09
α/β	5.59	5.29	6.06	5.64	6.05	6.05

Table S3 α (alpha), β (beta) and α/β parameters for 48 hours Post-Irradiation.

(Gy ⁻¹)	SiHa		Casky		HCK1T	
	Cells	Cells+AuNPs	Cells	Cells+AuNPs	Cells	Cells+AuNPs
α	0.53	0.64	0.64	0.74	0.53	0.53
β	0.09	0.09	0.10	0.11	0.09	0.09
α/β	6.14	6.98	6.53	6.86	5.84	5.84

Table S4 α (alpha), β (beta) and α/β parameters for 72 hours Post-Irradiation.

(Gy ⁻¹)	SiHa		Casky		HCK1T	
	Cells	Cells+AuNPs	Cells	Cells+AuNPs	Cells	Cells+AuNPs
α	0.71	0.72	0.56	0.59	0.54	0.54
β	0.12	0.12	0.10	0.10	0.10	0.10
α/β	5.70	5.93	5.67	5.68	5.58	5.58