Table S2. Radiosensitivity parameters describing survival advantage of isogenic head and neck SCC cells with different radiosensitivity.

Cells	SF2 ¹	ED ₅₀ ² (DMF ³)	D ₁₀ ⁴ (DMF)	α ⁵	β 6	α/β 7
FaDu	0.42 ± 0.02	1.60 ± 0.11 (/)	4.15 ± 0.13 (/)	0.34 ± 0.04	0.05 ± 0.004	7.8 ± 1.2
FaDu-R1	0.59 ± 0.03*	2.28 ± 0.10 (1.4)	4.92 ± 0.16 (1.2)	0.13 ± 0.05*	0.07 ± 0.01	2.6 ± 1.5
FaDu-R2	0.60 ± 0.04*	2.44 ± 0.15* (1.5)	4.99 ± 0.24 (1.2)	0.13 ± 0.03*	0.06 ± 0.008	2.1 ± 0.4
FaDu-RR	0.67 ± 0.02**	2.57 ± 0.09** (1.6)	5.34 ± 0.11** (1.3)	0.06 ± 0.01**	0.07 ± 0.003	0.8 ± 0.2**
2A3	0.38 ± 0.09	1.17 ± 0.18‡ (0.7)	4.07 ± 0.35 (1.0)	0.51 ± 0.10‡	0.05 ± 0.02	20.3 ± 7.8‡

 $^{^{1}}$ SF2 – surviving fraction at 2 Gy; 2 ED₅₀ – effective dose (Gy) killing 50% of the cells; 3 DMF – dose-modifying factor; 4 D₁₀ – dose (Gy) required to kill 90% of the cells; 5 α – linear coefficient (Gy⁻¹) from the LQ model; 6 β – quadratic coefficient (Gy⁻²) from the linear-quadratic model; 7 α/β – dose (Gy) at which linear contribution to damage equals the quadratic contribution; values are mean \pm SEM from at least three independent experiments; * indicates significant difference compared to FaDu and 2A3 cells; \pm indicates significant difference compared to FaDu and 2A3 cells; \pm indicates significant difference compared to FaDu and FaDu-RR cells (P < 0.05)