

**Supplementary Table S1.** Sensitizer Enhancement Ratio (SER) values calculated at 10% survival in the clonogenic survival assays. Radiation doses resulting in 10% survival were calculated based on the fitted survival curves according to the linear-quadratic model. SER values were computed with the formula: Radiation dose at 10% survival<sub>mono-culture</sub>/Radiation dose at 10% survival<sub>co-culture</sub>. No statistical analyses were performed regarding the SER values, as the different groups were compared with paired t-tests (for the entire curves) or ANOVA with post-hoc Dunnett's tests (for the 8 Gy dose).

	UD-SCC-5	FaDu	Cal27	UD-SCC-3	Detroit562	UD-SCC-2
<b>MSC1</b>	1.13	0.90	0.92	0.95	1.10	1.08
<b>MSC2</b>	1.10	0.93	0.89	0.88	1.10	1.09
<b>MSC1-CM</b>	1.28	0.97	0.85	1.06	1.30	1.19
<b>MSC2-CM</b>	1.17	0.94	0.95	1.00	1.19	1.21