

Human mesenchymal stem cells are resistant to UV-B irradiation

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Supplementary Figure 1. UV-B irradiation does not affect MSCs' differentiation ability. (A)

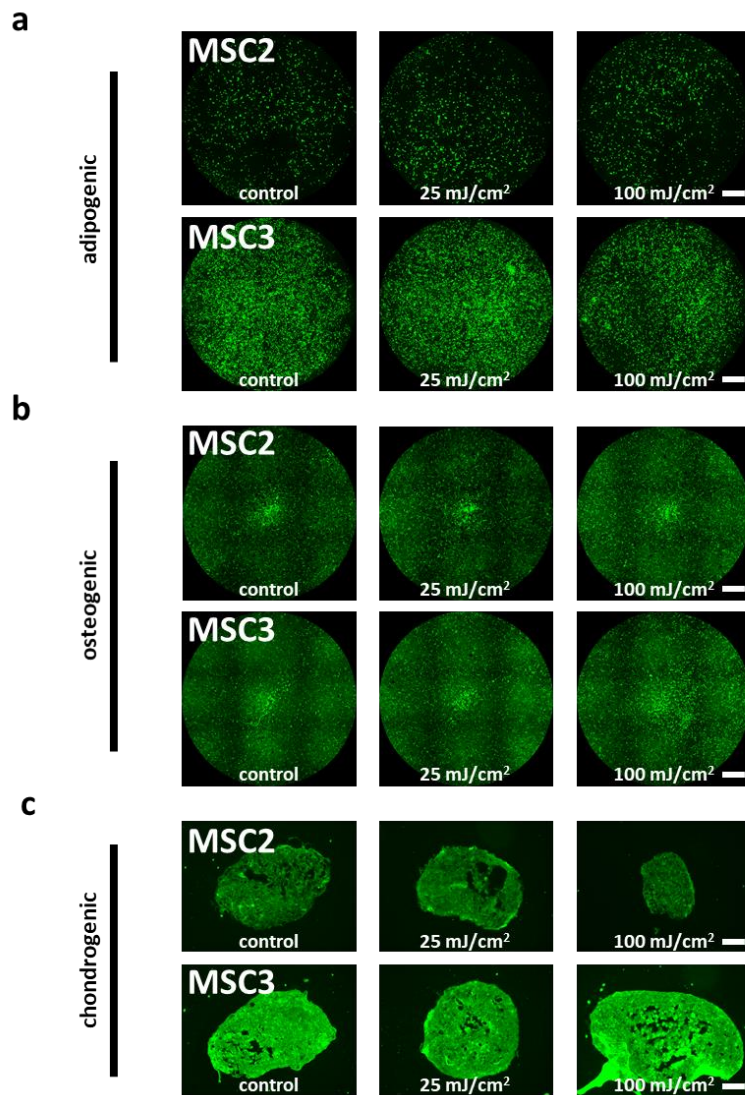
Representative images showing BODIPY (493/503) staining for adipogenic differentiation of MSC2 and MSC3 after exposure to UV-B light (scale bar 1000 μ m). **(B)** Representative images of OsteoImage™ staining for osteogenic differentiation of MSC2 and MSC3 after UV-B treatment (scale bar 1000 μ m). **(C)** Representative images of aggrecan staining demonstrating chondrogenic differentiation in MSC2 and MSC3 after treatment with UV-B (scale bar 100 μ m).

Supplementary Figure 2. Low-dose UV-B irradiation results in a G2/M arrest of MSCs. (A)

Cell cycle distribution of MSCs and dermal fibroblasts at 24, 48 and 96 hours after UV-B irradiation.

* $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$. Mean $\pm$ standard deviation is shown, $n=3$.

Supplementary Figure 1



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