

Supplementary Information for

Enhanced RBE of particle radiation depends on beam size in the micrometer range

K. Ilicic, G. Dollinger, A. Dombrowsky, C. Greubel, S. Girst, M. Sammer, C. Siebenwirth, E. Schmid, T. Friedrich, P. Kundrát, W. Friedland, M. Scholz, S.E. Combs, T.E. Schmid, J. Reindl

Corresponding author: Judith Reindl, Judith.reindl@unibw.de

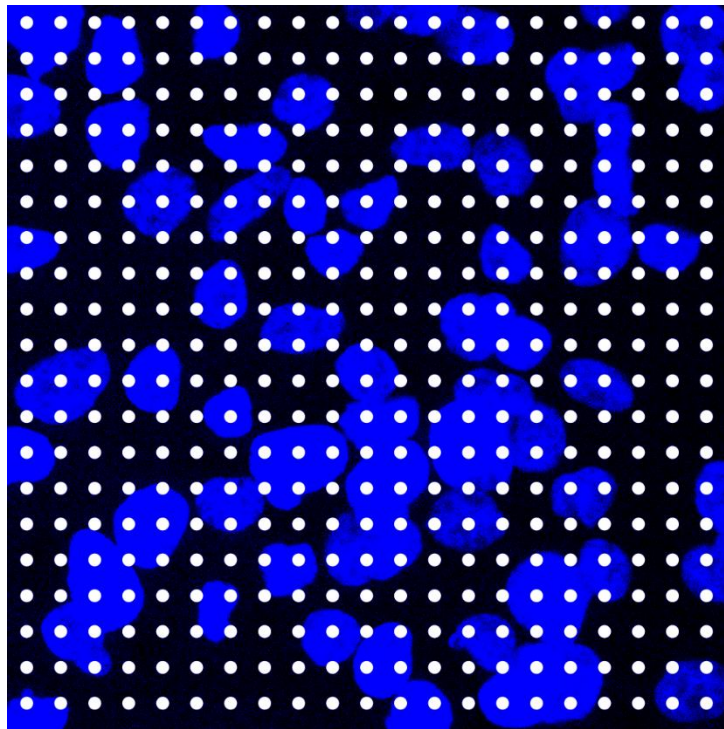


Figure S1: Overlay between a theoretical irradiation pattern with spot distances of $5.4 \mu\text{m}$ in x- and y-direction with a microscopic image of the CHO cell nuclei stained with DAPI.

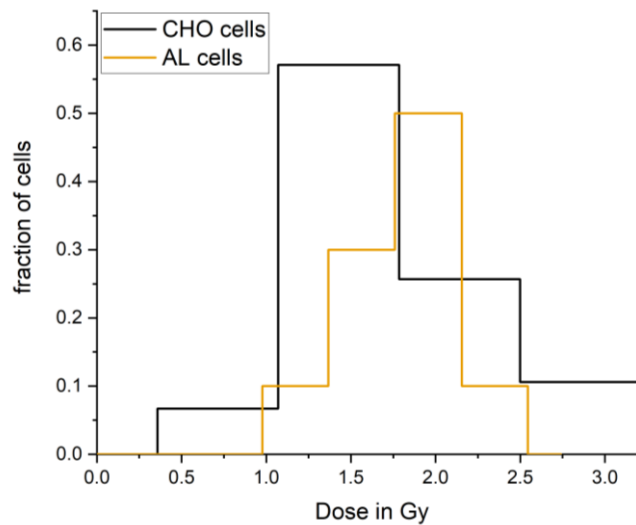


Figure S2: Fraction of cells irradiated with a certain dose for CHO cells (black) and AL cells (orange). The distribution comes from the size and spatial distribution of the cell nuclei and the beam.