



Figure 4- figure supplement 4.

p53-psi and p53 exon-6 truncations regulate MPTP and mitochondrial polarization in CypD dependent manner.

A. The chart represents the percentage of cells retaining calcein in mitochondria upon CoCl₂ treatment. Each column is the average of 3 independent experiments and indicates the mean percentage of calcein positive cells relative to scramble shRNA for each cell lines with standard deviation (n=3, p-value * <0.005 and ** <0.0005 , unpaired t-test). *TP53* mutation status for the cell lines utilized in this study is indicated on the right.

B. The chart indicates the ratio of J aggregate relative to monomer in the indicated cells after p53 knockdown with a p53 shRNA lentiviral construct relative to scrambled shRNA. Note the increase in the number of J aggregates (increased mitochondrial polarization) upon p53 knockdown in cells harboring p53-psi or p53 exon-6 truncating mutations (n=3, p-value * <0.0005 , ** <0.00005 and *** <0.000005 , unpaired t-test).

C. The chart represents the knockdown efficiency upon infection with shRNA targeting CypD in indicated cell lines 96h after infection. mRNA expression was quantified by SYBR-green based RT-qPCR. Each bar is the average of 3 replicates and represents mRNA expression of the indicated gene relative to GAPDH (p-value, * <0.05 , unpaired t-test).