



Supplemental Figure S1. Representative FACS profiles of the U2OS DR-GFP cell line. Shown is an example of the results from one experimental replicate. A logarithmic plot of the gated cells is shown using FITC-A (green fluorescence, x-axis) and PE-A (area of the pulse width, red fluorescence y-axis). Autofluorescence is detected on the diagonal, where cells showing increased green fluorescence are to the right of the diagonal. Autofluorescence are gated to determine the percentage of GFP+ cells (blue). In this example the cell line U2Os with the DR-GFP cassette was used to quantify homology-directed repair (HR). The examples shown are: **a.** untransfected untreated control to correct for background; **b.** I-SceI transfected no treatment control (used as the baseline or “0 %”); **c-f.** I-SceI transfected with different heavy metal treatments (100-500 μM NiCl₂ and 1 μM CdCl₂). Note that 100 μM NiCl₂ increases the signal relative to the control (**b**), while 500 μM NiCl₂ decreases the signal.