

SUPPLEMENTARY FIGURES

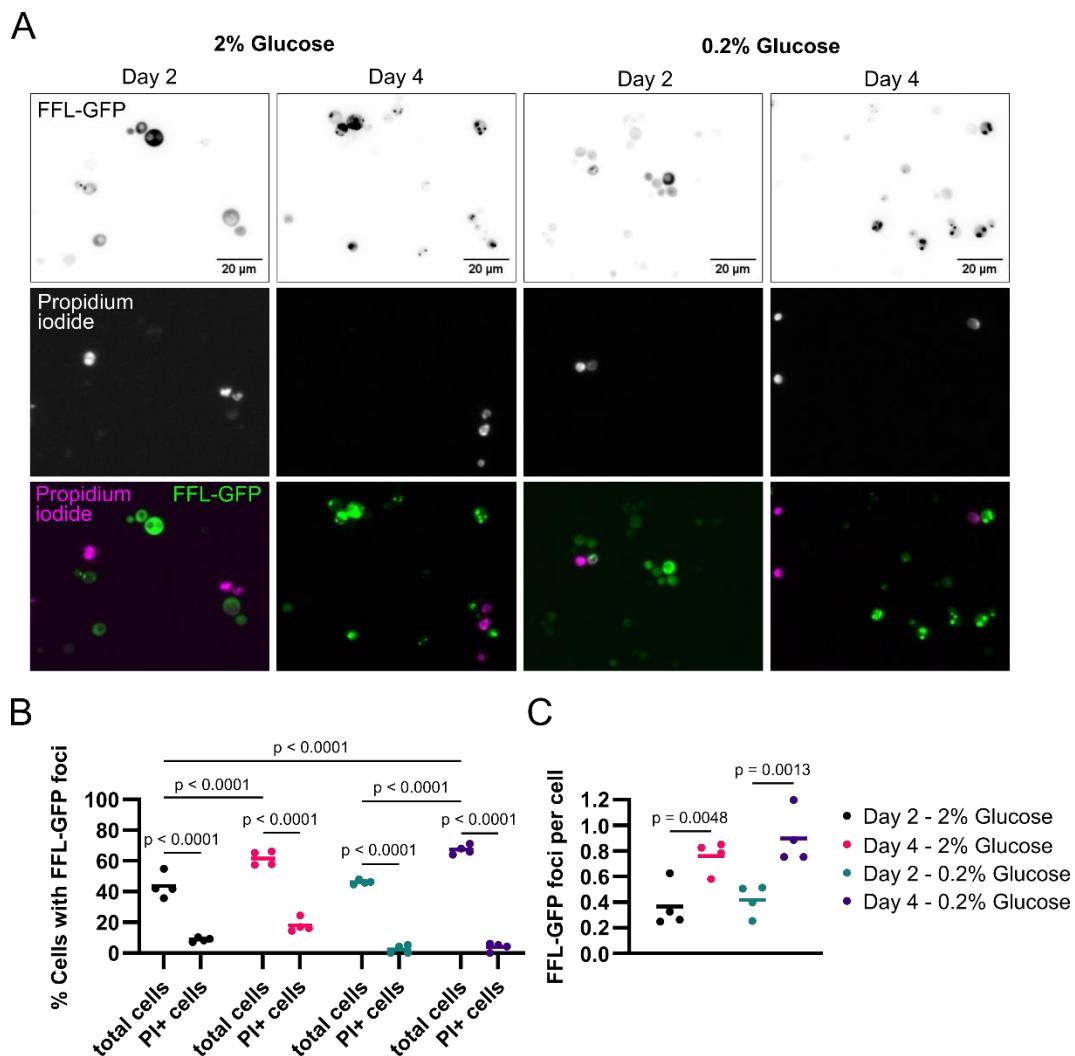


Figure S1. Ageing induces misfolding of metastable firefly luciferase. A. Fluorescence microscopy of cells expressing FFL-GFP aged in media containing 2% or 0.2% glucose for two or four days and subsequently stained with propidium iodide. B. Quantification of the percentage of cells containing FFL-GFP foci. C. Quantification of the number of FFL-GFP foci per cell. The means (+/- SD) are represented graphically for three independent experiments. At least 500 cells were analyzed for each condition.

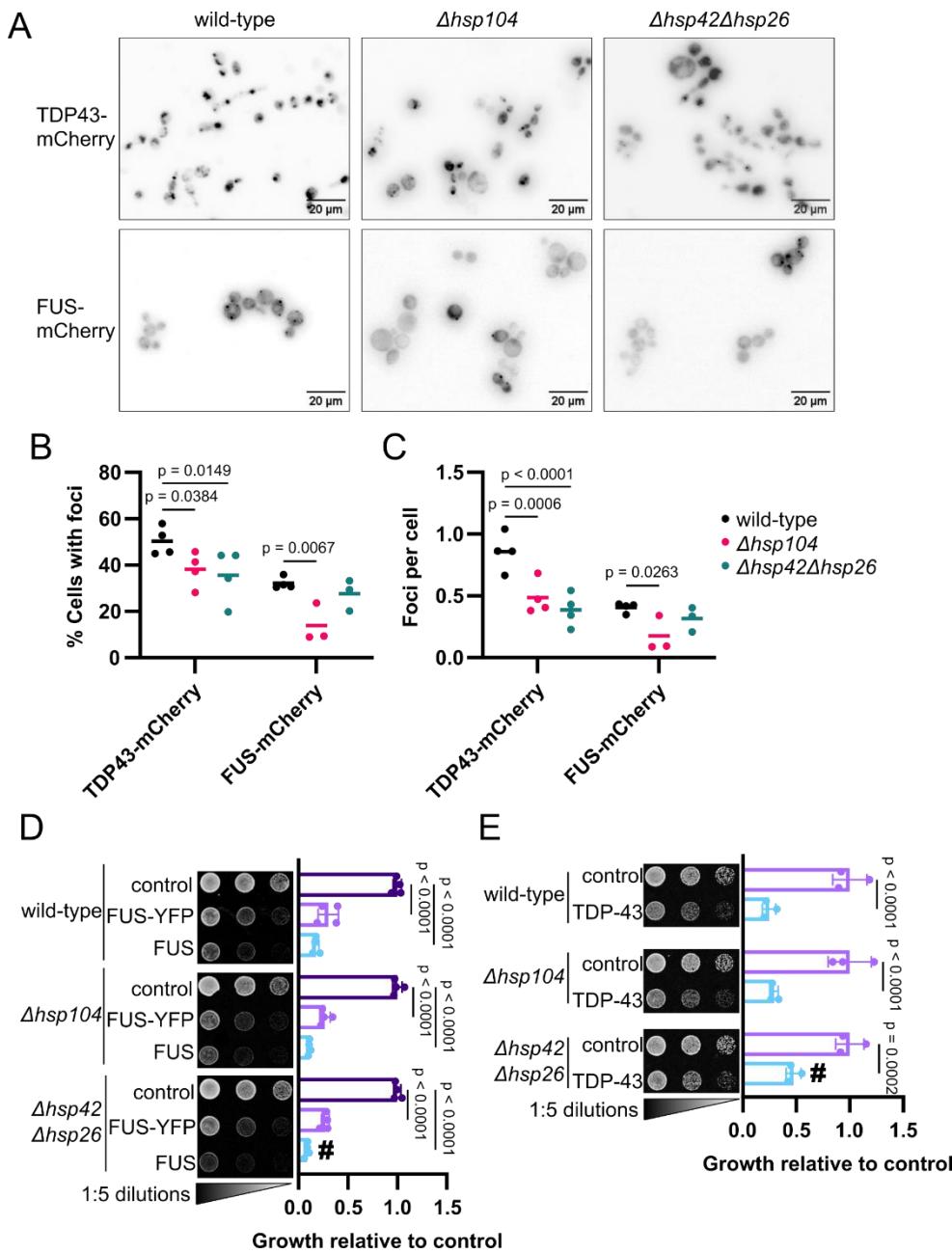


Figure S2. Loss of molecular chaperones impairs aggregation of TDP-43 and FUS. A. Fluorescence microscopy of wild-type, $\Delta hsp104$ and $\Delta hsp42\Delta hsp26$ cells expressing either TDP43-mCherry or FUS-mCherry. **B.** Quantification of the percentage of cells containing either TDP43-mCherry or FUS-mCherry foci. **C.** Quantification of the number of either TDP43-mCherry or FUS-mCherry foci per cell. **D.** Growth assays of wild-type, $\Delta hsp104$ and $\Delta hsp42\Delta hsp26$ cells expressing either vector control, FUS-YFP or FUS. **E.** Growth assays of wild-type, $\Delta hsp104$ and $\Delta hsp42\Delta hsp26$ cells expressing either vector control or TDP-43. Growth is measured at 1:5 dilutions. Significance values are indicated between wild-type and each mutant.

Δhsp42Δhsp26 cells expressing either vector control or TDP-43. The means (+/- SD) are represented graphically for three independent experiments. For fluorescence microscopy, at least 500 cells were analyzed for each condition. # symbols indicate synergistic interactions when compared to wild-type (# p<0.05).

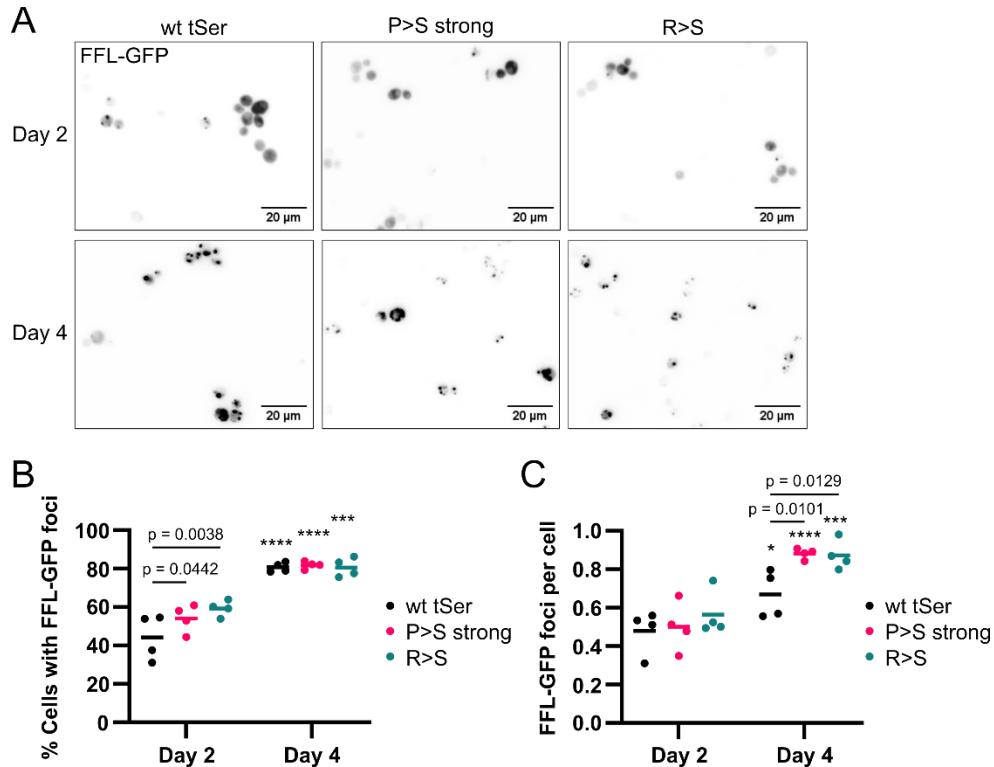


Figure S3. Translation errors synergistically increase misfolding of metastable firefly luciferase. A. Fluorescence microscopy of cells expressing FFL-GFP and either wt tSer or the tSer variants P>S strong or R>S aged for two or four days. B. Quantification of the percentage of cells with FFL-GFP foci. C. Quantification of the number of FFL-GFP foci per cell. The means (+/- SD) are represented graphically for three independent experiments. At least 500 cells were analyzed for each condition. (* p<0.05, ** p<0.01, *** p<0.001, **** p<0.0001).