

Delineation of cell death mechanisms induced by synergistic effects of statins and erlotinib in non-small cell lung cancer cell (NSCLC) lines

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Figure S1 – Supplementary figure

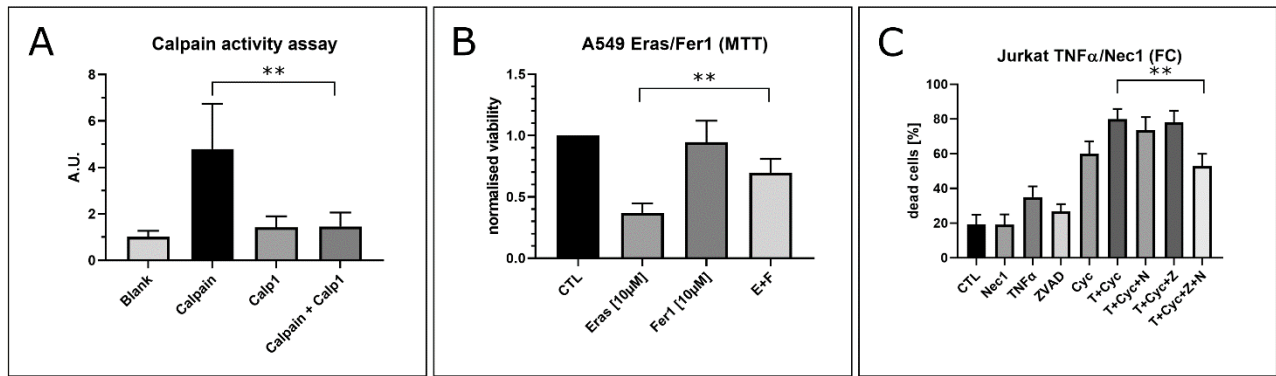


Figure S1. Testing efficacy of cell death inhibitors. (A) Ac-Lys-Lys-Norleucinal (Calp1, 10 μ M) was tested via fluorometric calpain activity assay as described. Calp1 inhibited calpain protease significantly ($p=0.0037$), $F(3,12)=11.11$; $p=0.0009$). (B) A549 cells were treated with erastin (ERAS, 10 μ M), ferrostatin 1 (Fer1, 10 μ M) or in combination (E+F) and compared to untreated cells. While Fer1 alone did not impact cell viability ($p=0.864$) as monitored via MTT assay, ERAS significantly reduced cell viability ($p<0.0001$), which was inhibited by addition of Fer1 ($p=0.0014$), $F(3,16)=33.23$; $p<0.0001$). (C) Jurkat cells were treated with necrostatin 1 (Nec 1, 10 μ M), TNF α (T, 100 ng/ml) or ZVAD (10 μ M) and combinations thereof together with cycloheximide (Cyc, 2 μ g/ml) as previously described⁵¹. Cell death was assessed by flow cytometry (FC) as described. Presence of Nec1 (N) and ZVAD (Z) in T/Cyc-treated cells prevented necroptosis significantly ($p=0.0012$), $F(7,16)=54.79$, $p<0.0001$). Data are given as arithmetic mean $\pm$ SD of three experiments. Statistical significance was calculated via one-way ANOVA and Tukey's test. ** .. $p < 0.01$.