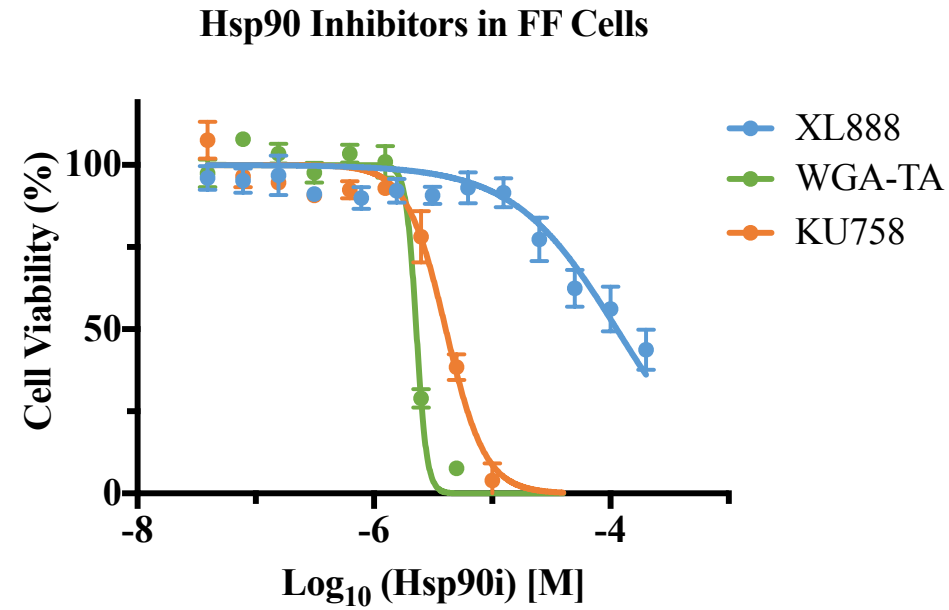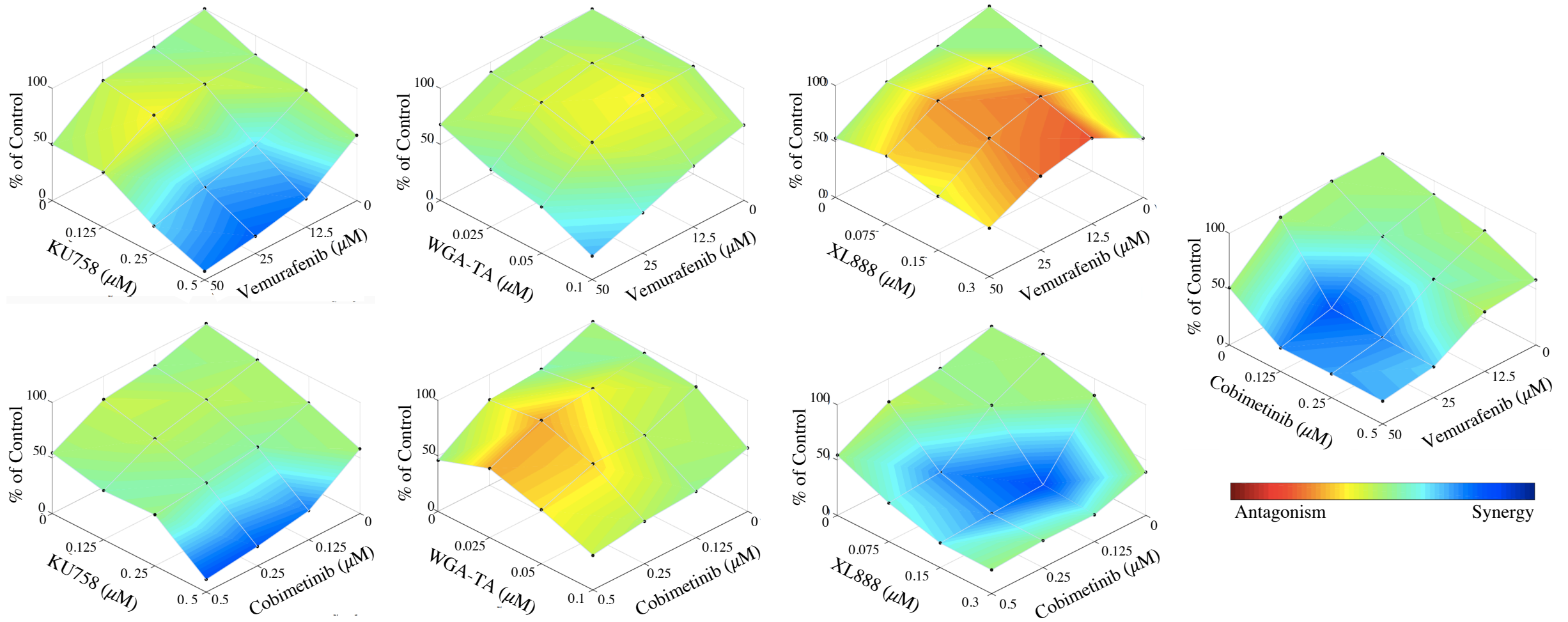**Supplemental Figure 1** – Dose-response curves of each Hsp90i in FF cells are shown with corresponding 24 hrs IC$_{50}$ values tabulated in micromolar concentrations.
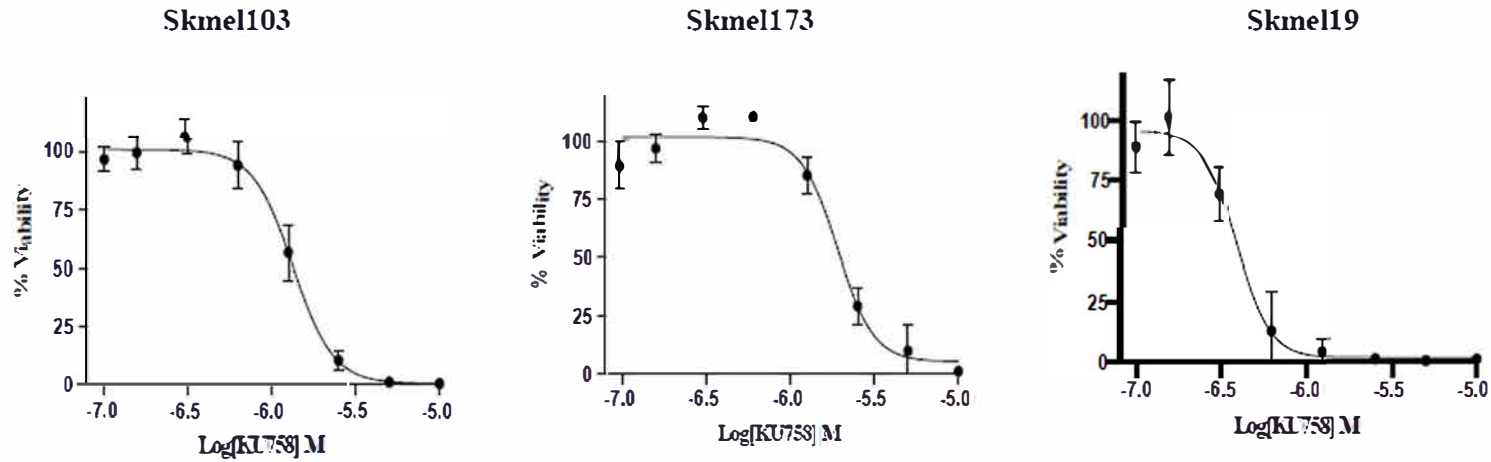


|  | IC50 ($\mu$M) |
|---|---|
| XL888 | 113.3 |
| KU758 | 4.05 |
| WGA-TA | 2.28 |

**Supplemental Figure 2 –** The combination effect of Hsp90 inhibitor combinations in UACC-62. Ve+Cb combination (FDA approved) is shown for comparison.

**Supplemental Figure 3** - Dose-response curves of Hsp90i KU758 in melanoma cells are shown with corresponding 24 hrs IC50 values tabulated in micromolar concentrations.

**Supplemental Table 1** – The CI values are listed for each inhibitor combination treatment in UACC-62 between (A) Hsp90i and MAPKi, as well as (B) Ve+Cb. Synergistic combination boxes are colored according to relative CI value: CI value < 0.5 (blue), 0.5 < CI value < 1.0 (green).

A)

| | (μM) | KU758 0.125 | KU758 0.25 | KU758 0.5 | WGA-TA 0.025 | WGA-TA 0.5 | WGA-TA 0.1 | XL888 0.075 | XL888 0.15 | XL888 0.3 |
|---|---|---|---|---|---|---|---|---|---|---|
| Ve | 12.5 | 1.445 | 0.428 | 0.291 | 116.814 | 0.353 | 0.070 | 8.166 | 7.199 | 2.580 |
| | 25 | 1.452 | 0.340 | 0.262 | 1.636 | 0.181 | 0.045 | 5.645 | 2.136 | 1.732 |
| | 50 | 0.815 | 0.248 | 0.185 | 0.231 | 0.074 | 0.037 | 0.725 | 0.536 | 0.757 |
| Cb | 0.125 | 1.166 | 0.735 | 0.315 | 1.198 | 1.557 | 1.701 | 0.895 | 0.236 | 0.342 |
| | 0.25 | 1.014 | 0.717 | 0.235 | 0.994 | 1.341 | 1.514 | 0.362 | 0.282 | 0.410 |
| | 0.5 | 0.723 | 0.883 | 0.202 | 0.887 | 1.063 | 1.326 | 0.522 | 0.364 | 0.471 |

B)

| | (μM) | Cb 0.125 | Cb 0.25 | Cb 0.5 |
|---|---|---|---|---|
| Ve | 12.5 | 0.447 | 0.460 | 0.757 |
| | 25 | 0.086 | 0.152 | 0.272 |
| | 50 | 0.048 | 0.098 | 0.188 |

**Supplemental Figure 4** – Scratch and Boyden chamber assays in UACC-62. A) KU758 inhibitor combinations decreased cell migration (red lines indicate scratched cell-free area). B) quantification of the percent of cell migration at 24 hours after Hsp90i and MAPKi combinations. p values are recorded as significance between t = 0 and 24 hrs. C) The number of migrated cells after inhibitor single-agent and combination treatments.