

A

Overlap in 1,000 Most Synergistic Combinations as predicted by DeepSynergy trained on Bliss, Loewe, or HSA

Bliss Rank

1. mk-8669+lapatinib in A2780
2. mrk-003+mk-8776 in A2780
3. mrk-003+dasatinib in A2780
4. dasatinib+sunitinib in A2780
5. sn-38+mrk-003 in A2780

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8. mk-2206+sunitinib+A2780

HSA Rank

1. lapatinib+sunitinib in A2780
2. mk-2206+dasatinib in A2780
3. mk-8669+sunitinib in A2780
4. mk-8669+bez-235 in A2780
5. l778123+dasatinib in A2780

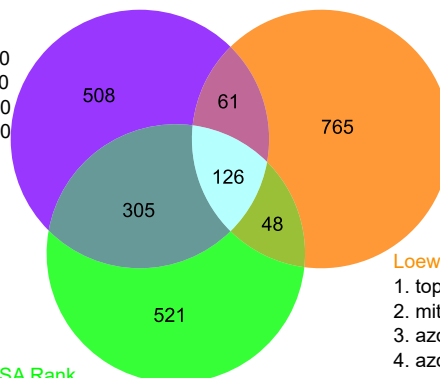
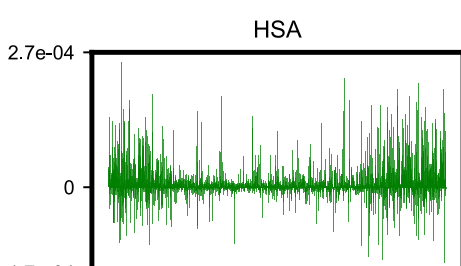
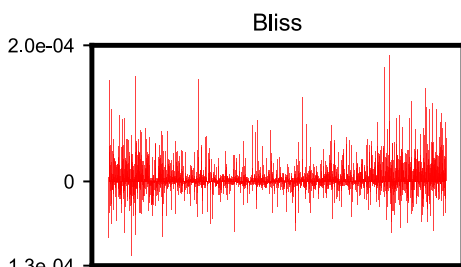
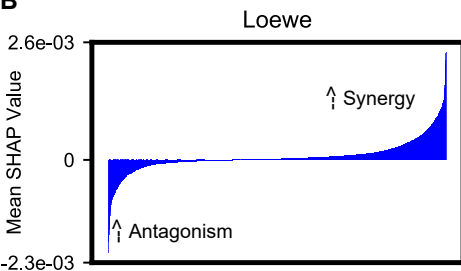
6. mk-2206+sunitinib+A2780

Loewe Rank

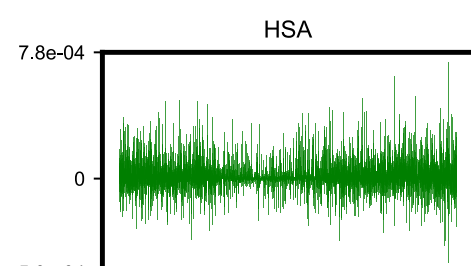
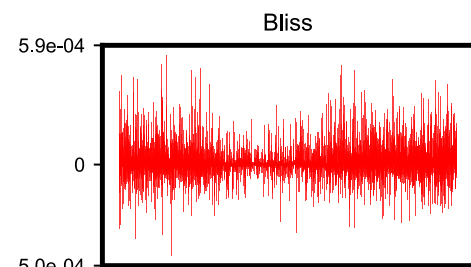
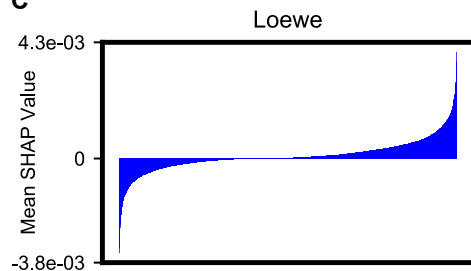
1. topotecan+azd1775 in HT144
2. mitomycin+azd1775 in HT144
3. azd1775+topotecan in HT144
4. azd1775+sn-38 in HT144
5. carboplatin+azd1775 in HT144

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263. mk-2206+sunitinib+A2780

**B**

Drug Feature (Ordered by Loewe SHAP value)

C

Cell Feature (Ordered by Loewe SHAP value)