TRUE SAE Diamond Features → DDR_bin Pathway Mapping

9 resistance-elevated features all map to DNA Damage Repair pathway

Feature Index | **Effect Size** | **Top Genes (variant count)**

- d=0.64, p=0.015 — 27607 — TP53(28), UBAP2L(1), ENTPD3(1)
- d=0.63, p=0.025 — 16337 — TP53(25), MYH1(2), CDH10(1)
- d=0.61, p=0.022 — 26220 — TP53(28), ENTPD3(1), ADAP2(1)
- d=0.60, p=0.025 — 12893 — TP53(29), RDH5(1)
- d=0.57, p=0.032 — 6020 — TP53(29), RDH5(1)
- d=0.54, p=0.036 — 22868 — TP53(30)
- d=0.54, p=0.041 — 1407 — TP53(25), BLMH(1), NPR2(1)
- d=0.53, p=0.049 — 9738 — TP53(24), RDH5(1), ENTPD3(1)
- d=0.52, p=0.047 — 31362 — TP53(28)
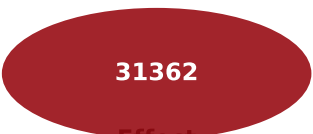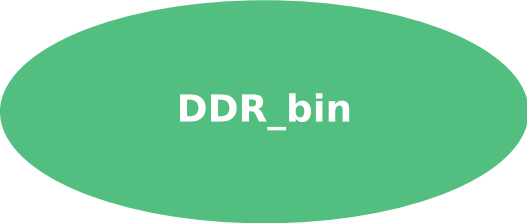
DDR_bin — DNA Damage Repair

Summary Statistics:
- 9 diamond features (higher in resistant)
- All features map to DDR pathway
- TP53 dominant: 28/30 top variants
- Mean Cohen's d: 0.58
- All p < 0.05 (Mann-Whitney U)