| ID                                      | setSize | enrichmentScore | NES     | p.adjust | FDR  |
|----------------------------------------|---------|-----------------|---------|----------|------|
| HALLMARK_E2F_TARGETS                   | 187     | 0.7733          | 3.4733  | 0.0080   | 0.0034 |
| HALLMARK_G2M_CHECKPOINT                | 197     | 0.7518          | 3.3824  | 0.0080   | 0.0034 |
| HALLMARK_MYC_TARGETS_V1                | 193     | 0.6219          | 2.7921  | 0.0080   | 0.0034 |
| HALLMARK_INTERFERON_GAMMA_RESPONSE     | 177     | 0.5882          | 2.6299  | 0.0080   | 0.0034 |
| HALLMARK_MTORC1_SIGNALING              | 196     | 0.5765          | 2.5907  | 0.0080   | 0.0034 |
| HALLMARK_INTERFERON_ALPHA_RESPONSE     | 83      | 0.6542          | 2.5667  | 0.0080   | 0.0034 |
| HALLMARK_ALLOGRAFT_REJECTION           | 199     | 0.5549          | 2.5112  | 0.0080   | 0.0034 |
| HALLMARK_MYC_TARGETS_V2                | 55      | 0.6651          | 2.4305  | 0.0080   | 0.0034 |
| HALLMARK_MITOTIC_SPINDLE               | 180     | 0.5026          | 2.2599  | 0.0080   | 0.0034 |
| HALLMARK_IL6_JAK_STAT3_SIGNALING       | 87      | 0.5413          | 2.1535  | 0.0080   | 0.0034 |
| HALLMARK_INFLAMMATORY_RESPONSE         | 194     | 0.4645          | 2.0919  | 0.0080   | 0.0034 |
| HALLMARK_SPERMATOGENESIS               | 123     | 0.4851          | 2.0431  | 0.0080   | 0.0034 |
| HALLMARK_UNFOLDED_PROTEIN_RESPONSE     | 110     | 0.4274          | 1.7662  | 0.0080   | 0.0034 |
| HALLMARK_TNFA_SIGNALING_VIA_NFKB       | 198     | 0.3704          | 1.6669  | 0.0080   | 0.0034 |
| HALLMARK_GLYCOLYSIS                    | 186     | 0.3705          | 1.6615  | 0.0080   | 0.0034 |
| HALLMARK_COMPLEMENT                    | 187     | 0.3659          | 1.6434  | 0.0080   | 0.0034 |
| HALLMARK_UV_RESPONSE_UP                | 156     | 0.3593          | 1.5903  | 0.0144   | 0.0061 |
| HALLMARK_DNA_REPAIR                    | 136     | 0.3587          | 1.5372  | 0.0198   | 0.0083 |
| HALLMARK_CHOLESTEROL_HOMEOSTASIS       | 62      | 0.3963          | 1.4709  | 0.0361   | 0.0152 |
| HALLMARK_BILE_ACID_METABOLISM          | 99      | -0.4003         | -1.4946 | 0.0348   | 0.0146 |
| HALLMARK_COAGULATION                   | 136     | -0.3973         | -1.5614 | 0.0179   | 0.0075 |
| HALLMARK_ESTROGEN_RESPONSE_LATE        | 199     | -0.3910         | -1.6053 | 0.0080   | 0.0034 |
| HALLMARK_ANGIOGENESIS                  | 36      | -0.5586         | -1.7539 | 0.0080   | 0.0034 |
| HALLMARK_MYOGENESIS                    | 196     | -0.4706         | -1.9364 | 0.0080   | 0.0034 |
| HALLMARK_UV_RESPONSE_DN                | 142     | -0.5242         | -2.0701 | 0.0080   | 0.0034 |
| HALLMARK_ESTROGEN_RESPONSE_EARLY       | 200     | -0.5426         | -2.2344 | 0.0080   | 0.0034 |
| HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION | 195   | -0.5468         | -2.2503 | 0.0080   | 0.0034 |