

S7 Table. The average gravitation score of DNA repair cancer driver genes, non-DNA repair cancer driver genes, and non-driver DNA repair genes.

Cancer type	Average gravitation score \pm standard deviation			Adjusted p-value (<i>q</i>)		
	DNA repair cancer driver genes	Non-DNA repair cancer driver genes	Non-driver DNA repair genes	I	II	III
BRCA	0.73 \pm 0.13	0.46 \pm 0.02	0.24 \pm 0.03	0.12	4.4 \times 10 ⁻⁴	3.8 \times 10 ⁻⁶
COAD	0.67 \pm 0.11	0.64 \pm 0.04	0.31 \pm 0.04	0.15	3.2 \times 10 ⁻⁴	3.0 \times 10 ⁻⁷
GBM	1.2 \pm 0.33	0.81 \pm 0.05	0.43 \pm 0.07	0.15	4.4 \times 10 ⁻⁴	1.5 \times 10 ⁻⁷
HNSC	0.44 \pm 0.17	0.45 \pm 0.02	0.25 \pm 0.03	0.02	9.9 \times 10 ⁻⁵	6.9 \times 10 ⁻⁶
KIRC	1.2 \pm 0.23	0.80 \pm 0.05	0.38 \pm 0.04	0.08	2.7 \times 10 ⁻⁴	1.8 \times 10 ⁻⁶
LUAD	0.68 \pm 0.13	0.41 \pm 0.02	0.28 \pm 0.04	0.08	5.2 \times 10 ⁻⁴	1.7 \times 10 ⁻⁴
LUSC	0.41 \pm 0.08	0.33 \pm 0.02	0.18 \pm 0.03	0.15	4.4 \times 10 ⁻⁴	3.0 \times 10 ⁻⁷
OV	0.43 \pm 0.09	0.30 \pm 0.02	0.15 \pm 0.02	0.12	3.2 \times 10 ⁻⁴	3.0 \times 10 ⁻⁷
UCEC	0.70 \pm 0.11	0.57 \pm 0.03	0.34 \pm 0.04	0.12	5.2 \times 10 ⁻⁴	5.5 \times 10 ⁻⁴

The p-values in column **I** represent the Wilcoxon rank-sum test of average gravitation score between DNA repair cancer driver genes and non-DNA repair cancer driver genes. The p-values in column **II** represent the Wilcoxon rank-sum test of average gravitation score between DNA repair cancer driver genes and non-driver DNA repair genes. The p-values in **III** represent the Wilcoxon rank-sum test of average gravitation score between non-DNA repair cancer driver genes and non-driver DNA repair genes.