

S8 Table. The average gravitation score of DNA repair Cancer Gene Census (CGC) genes, non-DNA repair CGC genes, and non-CGC DNA repair genes.

Cancer type	Average gravitation score \pm standard deviation			Adjusted p-value (<i>q</i>)		
	DNA repair CGC genes	Non-DNA repair CGC genes	Non-CGC DNA repair genes	I	II	III
BRCA	0.50 \pm 0.10	0.34 \pm 0.02	0.25 \pm 0.03	0.68	0.12	0.20
COAD	0.46 \pm 0.08	0.46 \pm 0.03	0.32 \pm 0.05	0.91	0.12	0.04
GBM	0.64 \pm 0.12	0.61 \pm 0.04	0.48 \pm 0.09	0.91	0.12	0.09
HNSC	0.50 \pm 0.12	0.35 \pm 0.02	0.27 \pm 0.04	0.91	0.25	0.17
KIRC	0.75 \pm 0.16	0.60 \pm 0.06	0.41 \pm 0.05	0.91	0.12	0.16
LUAD	0.44 \pm 0.08	0.31 \pm 0.02	0.29 \pm 0.04	0.68	0.12	0.19
LUSC	0.25 \pm 0.05	0.24 \pm 0.02	0.19 \pm 0.03	0.91	0.12	0.11
OV	0.30 \pm 0.06	0.22 \pm 0.01	0.15 \pm 0.02	0.77	0.03	0.02
UCEC	0.45 \pm 0.07	0.45 \pm 0.04	0.36 \pm 0.04	0.68	0.12	0.64

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