

Supplementary Table S10. GSEA between HR-proficient and HR-deficient patients using Hallmark gene sets

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX
HALLMARK_ALLOGRAFT_REJECTION	200	0.622244	3.030932	p<0.001	q<0.001	p<0.001	2804
HALLMARK_INTERFERON_GAMMA_RESPONSE	198	0.522191	2.541706	p<0.001	q<0.001	p<0.001	3333
HALLMARK_INFLAMMATORY_RESPONSE	200	0.508114	2.501526	p<0.001	q<0.001	p<0.001	2686
HALLMARK_MYC_TARGETS_V1	194	0.498022	2.422014	p<0.001	q<0.001	p<0.001	5781
HALLMARK_INTERFERON_ALPHA_RESPONSE	97	0.537586	2.313169	p<0.001	q<0.001	p<0.001	3911
HALLMARK_IL6_JAK_STAT3_SIGNALING	87	0.522451	2.20156	p<0.001	q<0.001	p<0.001	2686
HALLMARK_COMPLEMENT	200	0.444456	2.166893	p<0.001	q<0.001	p<0.001	2249
HALLMARK_TNFA_SIGNALING_VIA_NFKB	200	0.443547	2.143211	p<0.001	q<0.001	p<0.001	3238
HALLMARK_G2M_CHECKPOINT	190	0.435133	2.089654	p<0.001	q<0.001	p<0.001	5429
HALLMARK_E2F_TARGETS	191	0.414978	2.01675	p<0.001	2.19E-04	0.001	5393
HALLMARK_MYC_TARGETS_V2	58	0.438354	1.732887	p<0.001	0.0016784	0.008	5590
HALLMARK_IL2_STAT5_SIGNALING	194	0.337152	1.63825	p<0.001	0.0045694	0.025	2861
HALLMARK_PI3K_AKT_MTOR_SIGNALING	104	0.358914	1.597204	0.0056338	0.0073102	0.044	3423
HALLMARK_APOPTOSIS	161	0.312838	1.482176	0.00626959	0.022153	0.137	3905
HALLMARK_REACTIVE_OXIGEN_SPECIES_PATHWAY	48	0.380937	1.4659	0.03314917	0.0233678	0.153	2459
HALLMARK_KRAS_SIGNALING_UP	199	0.299018	1.460644	p<0.001	0.0229204	0.16	2608
HALLMARK_OXIDATIVE_PHOSPHORYLATION	197	0.272274	1.330157	0.01027397	0.0706416	0.438	4181
HALLMARK_COAGULATION	137	0.260257	1.220139	0.07878788	0.1733912	0.791	1702
HALLMARK_DNA_REPAIR	147	0.247311	1.174153	0.10882353	0.2398938	0.893	4568
HALLMARK_UV_RESPONSE_UP	158	0.245822	1.162933	0.1122449	0.2493061	0.912	3564
HALLMARK_KRAS_SIGNALING_DN	196	0.232412	1.134471	0.14238411	0.2949849	0.949	3514
HALLMARK_ANDROGEN_RESPONSE	100	0.247587	1.105498	0.25364432	0.351067	0.976	3445
HALLMARK_MTORC1_SIGNALING	197	0.225457	1.097002	0.2262295	0.3565137	0.983	5235
HALLMARK_P53_PATHWAY	195	0.217473	1.064597	0.278481	0.4297995	0.988	3988
HALLMARK_TGF_BETA_SIGNALING	54	0.269342	1.058118	0.33894232	0.4297766	0.991	2964
HALLMARK_APICAL_JUNCTION	199	0.21358	1.045938	0.30546623	0.4500817	0.994	2759
HALLMARK_HYPOXIA	199	0.211872	1.038653	0.31	0.4568103	0.994	3033
HALLMARK_UNFOLDED_PROTEIN_RESPONSE	113	0.227644	1.027796	0.37677053	0.4722526	0.997	5441
HALLMARK_SPERMATOGENESIS	131	0.215144	0.996494	0.47277936	0.5526683	0.998	2540
HALLMARK_ESTROGEN_RESPONSE_LATE	200	0.191971	0.943236	0.62776023	0.7089315	0.999	4465
HALLMARK_MITOTIC_SPINDLE	196	0.181154	0.884567	0.8244514	0.8738461	1	4235
HALLMARK_HEME_METABOLISM	195	0.179473	0.870569	0.8540146	0.8840687	1	4791
HALLMARK_APICAL_SURFACE	44	0.223865	0.855597	0.72048193	0.8920412	1	1836
HALLMARK_PANCREAS_BETA_CELLS	40	0.226324	0.826192	0.7758621	0.9195237	1	3741
HALLMARK_ADIPOGENESIS	198	0.151698	0.734743	1	0.9745382	1	3080
HALLMARK_BILE_ACID_METABOLISM	112	-0.32504	-1.34897	0.04400607	0.5122303	0.673	5504
HALLMARK_CHOLESTEROL_HOMEOSTASIS	74	-0.33715	-1.33425	0.06354515	0.2949129	0.73	6912
HALLMARK_NOTCH_SIGNALING	32	-0.33975	-1.13255	0.25838926	1	1	4275
HALLMARK_MYOGENESIS	200	-0.2348	-1.06285	0.30666667	1	1	5229
HALLMARK_WNT_BETA_CATENIN_SIGNALING	42	-0.29613	-1.04234	0.36464968	1	1	4663
HALLMARK_PEROXISOME	101	-0.2433	-1.00046	0.46103895	1	1	4866
HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	199	-0.19122	-0.87073	0.7878788	1	1	6931
HALLMARK_XENOBIOTIC_METABOLISM	199	-0.19103	-0.866	0.78986585	1	1	4866
HALLMARK_UV_RESPONSE_DN	140	-0.19785	-0.8514	0.81316996	1	1	6271
HALLMARK_ANGIOGENESIS	36	-0.24082	-0.82929	0.7387687	1	1	7038
HALLMARK_HEDGEHOG_SIGNALING	36	-0.24365	-0.82709	0.7635468	1	1	4460
HALLMARK_PROTEIN_SECRETION	96	-0.19922	-0.8128	0.83572567	1	1	3948
HALLMARK_FATTY_ACID_METABOLISM	155	-0.18026	-0.78794	0.9180088	1	1	6781
HALLMARK_GLYCOLYSIS	198	-0.16665	-0.75184	0.9799139	1	1	5428
HALLMARK_ESTROGEN_RESPONSE_EARLY	196	-0.16022	-0.714	0.9927954	0.9768313	1	5431