

Supplementary Table 4. Significantly enriched pathways in the GSEA of peripheral blood

Pathway name	Size	Enrichment score	Normalized enrichment score	NOM p-val	FDR q-val
HALLMARK_INTERFERON_ALPHA_RESPONSE	95	0.865	1.914	<0.0001	<0.0001
HALLMARK_INTERFERON_GAMMA_RESPONSE	198	0.808	1.805	<0.0001	<0.0001
REACTOME_INTERFERON_ALPHA_BETA_SIGNALING	68	0.840	1.786	<0.0001	0.003
GO_NEGATIVE_REGULATION_OF_VIRAL_LIFE_CYCLE	78	0.806	1.735	<0.0001	0.004
GO_NEGATIVE_REGULATION_OF_VIRAL_GENOME_REPLICATION	55	0.824	1.745	<0.0001	0.004
GO_RESPONSE_TO_TYPE_I_INTERFERON	94	0.810	1.747	<0.0001	0.009
GO_NEGATIVE_REGULATION_OF_VIRAL_PROCESS	94	0.782	1.701	<0.0001	0.009
GO_REGULATION_OF_VIRAL_GENOME_REPLICATION	91	0.774	1.696	<0.0001	0.009
GO_DEFENSE_RESPONSE_TO_VIRUS	236	0.751	1.680	<0.0001	0.013
HALLMARK_INFLAMMATORY_RESPONSE	199	0.647	1.436	<0.0001	0.017
HALLMARK_E2F_TARGETS	196	0.640	1.427	<0.0001	0.017
HALLMARK_APOPTOSIS	160	0.644	1.417	<0.0001	0.017
HALLMARK_IL6_JAK_STAT3_SIGNALING	87	0.665	1.438	0.001	0.021
GO_REGULATION_OF_VIRAL_LIFE_CYCLE	138	0.747	1.656	<0.0001	0.024
HALLMARK_TNFA_SIGNALING_VIA_NFKB	199	0.646	1.441	<0.0001	0.025
REACTOME_INTERFERON_SIGNALING	200	0.737	1.650	<0.0001	0.032
HALLMARK_G2M_CHECKPOINT	192	0.609	1.354	<0.0001	0.048
GO_NEGATIVE_REGULATION_OF_MULTI_ORGANISM_PROCESS	210	0.726	1.629	<0.0001	0.050
GO_VIRAL_GENOME_REPLICATION	118	0.733	1.617	<0.0001	0.056
HALLMARK_IL2_STAT5_SIGNALING	198	0.600	1.334	0.002	0.057
GO_RESPONSE_TO_INTERFERON_ALPHA	20	0.856	1.620	0.001	0.058
GO_RESPONSE_TO_VIRUS	315	0.716	1.603	<0.0001	0.075
REACTOME_INTERFERON_GAMMA_SIGNALING	91	0.730	1.601	<0.0001	0.080
GO_INTERFERON_GAMMA_MEDIATED_SIGNALING_PATHWAY	87	0.732	1.597	<0.0001	0.082
HALLMARK_SPERMATOGENESIS	133	0.591	1.304	0.004	0.084
GO_REGULATION_OF_SYMBIOSIS_ENCOMPASSING_MUTUALISM_THROUGH_PARASITISM	212	0.714	1.590	<0.0001	0.090
HALLMARK_XENOBIOTIC_METABOLISM	198	0.575	1.282	0.002	0.108
HALLMARK_REACTIVE_OXYGEN_SPECIES_PATHWAY	48	0.589	1.243	0.121	0.111
HALLMARK_MTORC1_SIGNALING	196	0.556	1.240	0.019	0.111
HALLMARK_COMPLEMENT	200	0.556	1.244	0.019	0.116
HALLMARK_MYC_TARGETS_V1	196	0.566	1.265	0.011	0.118
HALLMARK_KRAS_SIGNALING_DN	196	0.568	1.270	0.009	0.119
HALLMARK_ESTROGEN_RESPONSE_LATE	198	0.562	1.245	0.009	0.120

HALLMARK_ANDROGEN_RESPONSE	97	0.579	1.247	0.054	0.124
HALLMARK_KRAS_SIGNALING_UP	198	0.556	1.250	0.015	0.126
HALLMARK_ALLOGRAFT_REJECTION	195	0.549	1.227	0.024	0.127
HALLMARK_FATTY_ACID_METABOLISM	157	0.563	1.254	0.025	0.128
HALLMARK_P53_PATHWAY	196	0.541	1.206	0.035	0.153
HALLMARK_OXIDATIVE_PHOSPHORYLATION	185	0.544	1.209	0.043	0.155
GO_RESPONSE_TO_INTERFERON_GAMMA	195	0.697	1.559	0.000	0.182
HALLMARK_UNFOLDED_PROTEIN_RESPONSE	109	0.537	1.188	0.098	0.187
HALLMARK_HEDGEHOG_SIGNALING	35	0.579	1.184	0.209	0.189
GO_REGULATION_OF_DEFENSE_RESPONSE_TO_VIRUS_BY_HOST	35	0.765	1.550	0.000	0.194
GO_RESPONSE_TO_INTERFERON_BETA	28	0.793	1.552	0.001	0.201
