

A**Gene sets enriched for genes upregulated by CBL0137 in liver**

Gene Set Name	# Genes in Gene Set (K)	# Genes in Overlap (k)	k/K	p-value	FDR q-value
REACTOME_IMMUNE_SYSTEM	933	26	0.0279	3.06E-17	4.06E-14
REACTOME_INTERFERON_SIGNALING	159	13	0.0818	5.27E-15	3.51E-12
REACTOME_INTERFERON_ALPHA_BETA_SIGNALING	64	10	0.1562	1.00E-14	4.44E-12
REACTOME_CYTOKINE_SIGNALING_IN_IMMUNE_SYSTEM	270	14	0.0519	2.51E-13	8.36E-11

B**Gene sets enriched for genes upregulated by CBL0137 in lung**

Gene Set Name	# Genes in Gene Set (K)	# Genes in Overlap (k)	k/K	p-value	FDR q-value
KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS	140	18	0.1286	6.62E-21	8.80E-18
REACTOME_INTERFERON_ALPHA_BETA_SIGNALING	64	13	0.2031	3.57E-18	1.52E-15
REACTOME_IMMUNE_SYSTEM	933	31	0.0332	1.34E-17	3.57E-15
REACTOME_INTERFERON_SIGNALING	159	15	0.0943	1.44E-15	2.04E-13

C**Gene sets enriched for genes upregulated by CBL0137 in spleen**

Gene Set Name	# Genes in Gene Set (K)	# Genes in Overlap (k)	k/K	p-value	FDR q-value
REACTOME_IMMUNE_SYSTEM	933	62	0.0665	1.49E-39	1.98E-36
NABA_MATRISOME	1028	60	0.0584	4.10E-35	2.73E-32
REACTOME_INTERFERON_SIGNALING	159	27	0.1698	1.54E-28	5.11E-26
REACTOME_INTERFERON_ALPHA_BETA_SIGNALING	64	19	0.2969	1.68E-25	4.46E-23
REACTOME_INTERFERON_GAMMA_SIGNALING	63	14	0.2222	3.72E-17	7.06E-15
KEGG_LYSOSOME	121	17	0.1405	5.61E-17	9.32E-15
REACTOME_INNATE_IMMUNE_SYSTEM	279	22	0.0789	3.94E-16	5.81E-14

Figure 2 - Figure Supplement 1. GSEA analysis of genes upregulated in liver (A), lung (B) and spleen (C) of mice treated with CBL0137.