```
GSE22140_HEALTHY_VS_ARTHRITIC_GERMFREE_MOUSE_CD4_TCELL_UP, GSE22140_HEALTHY_VS_ARTHRITIC_GERMFREE_MOUSE_CD4_TCELL_UP
                                                                                                       GSE360_L_DONOVANI_VS_B_MALAYI_HIGH_DOSE_DC_DN, GSE360_L_DONOVANI_VS_B_MALAYI_HIGH_DOSE_DC_DN
                                                                                                       GSE5542_UNTREATED_VS_IFNA_TREATED_EPITHELIAL_CELLS_24H_UP, GSE5542_UNTREATED_VS_IFNA_TREATED_EPITHELIAL_CELLS_24H_UP
                                                                                                       GSE360_DC_VS_MAC_L_DONOVANI_DN, GSE360_DC_VS_MAC_L_DONOVANI_DN
                                                                                                       GSE360_DC_VS_MAC_B_MALAYI_HIGH_DOSE_UP, GSE360_DC_VS_MAC_B_MALAYI_HIGH_DOSE_UP
                                                                                                       AMIT_EGF_RESPONSE_480_HELA, AMIT_EGF_RESPONSE_480_HELA
                                                                                                      GSE15330_WT_VS_IKAROS_KO_GRANULOCYTE_MONOCYTE_PROGENITOR_DN, GSE15330_WT_VS_IKAROS_KO_GRANULOCYTE_MONOCYTE_PROGENITOR_DN
                                                                                                      GSE37301_MULTIPOTENT_PROGENITOR_VS_PRO_BCELL_DN, GSE37301_MULTIPOTENT_PROGENITOR_VS_PRO_BCELL_DN
                                                                                                      GSE15624_3H_VS_6H_HALOFUGINONE_TREATED_CD4_TCELL_UP, GSE15624_3H_VS_6H_HALOFUGINONE_TREATED_CD4_TCELL_UP
                                                                                                      GSE5099_UNSTIM_VS_MCSF_TREATED_MONOCYTE_DAY3_DN, GSE5099_UNSTIM_VS_MCSF_TREATED_MONOCYTE_DAY3_DN
                                                                                                      GSE21927_SPLEEN_VS_4T1_TUMOR_MONOCYTE_BALBC_DN, GSE21927_SPLEEN_VS_4T1_TUMOR_MONOCYTE_BALBC_DN
                                                                                                      GSE17721_LPS_VS_CPG_24H_BMDC_DN, GSE17721_LPS_VS_CPG_24H_BMDC_DN
                                                                                                      GSE360_L_DONOVANI_VS_B_MALAYI_LOW_DOSE_DC_UP, GSE360_L_DONOVANI_VS_B_MALAYI_LOW_DOSE_DC_UP
                                                                                                      GSE8685_IL2_STARVED_VS_IL15_ACT_IL2_STARVED_CD4_TCELL_DN, GSE8685_IL2_STARVED_VS_IL15_ACT_IL2_STARVED_CD4_TCELL_DN
                                                                                                      GSE360_CTRL_VS_L_MAJOR_DC_UP, GSE360_CTRL_VS_L_MAJOR_DC_UP
                                                                                                      SMIRNOV_CIRCULATING_ENDOTHELIOCYTES_IN_CANCER_UP, SMIRNOV_CIRCULATING_ENDOTHELIOCYTES_IN_CANCER_UP
                                                                                                      GSE360_DC_VS_MAC_T_GONDII_DN, GSE360_DC_VS_MAC_T_GONDII_DN
                                                                                                      GSE360_T_GONDII_VS_M_TUBERCULOSIS_DC_UP, GSE360_T_GONDII_VS_M_TUBERCULOSIS_DC_UP
                                                                                                      GSE17721_CTRL_VS_POLYIC_0.5H_BMDC_UP, GSE17721_CTRL_VS_POLYIC_0.5H_BMDC_UP
                                                                                                      GSE2128_CTRL_VS_MIMETOPE_NEGATIVE_SELECTION_DP_THYMOCYTE_NOD_DN, GSE2128_CTRL_VS_MIMETOPE_NEGATIVE_SELECTION_DP_THYMOCYTE_NOD_DN
                                                                                                      GSE3982_DC_VS_TH2_UP, GSE3982_DC_VS_TH2_UP
                                                                                                      MIR3175, MIR3175
                                                                                                      GSE28726_NAIVE_CD4_TCELL_VS_NAIVE_VA24NEG_NKTCELL_DN, GSE28726_NAIVE_CD4_TCELL_VS_NAIVE_VA24NEG_NKTCELL_DN
                                                                                                      WP_B_CELL_RECEPTOR_SIGNALING_PATHWAY, WP_B_CELL_RECEPTOR_SIGNALING_PATHWAY
                                                                                                      GSE46025 WT VS FOXO1 KO KLRG1 LOW CD8 EFFECTOR TCELL UP, GSE46025 WT VS FOXO1 KO KLRG1 LOW CD8 EFFECTOR TCELL UP
                                                                                                       GSE22025_TGFB1_VS_TGFB1_AND_PROGESTERONE_TREATED_CD4_TCELL_DN, GSE22025_TGFB1_VS_TGFB1_AND_PROGESTERONE_TREATED_CD4_TCELL_DN
                                                                                                      GSE28726_NAIVE_VS_ACTIVATED_VA24NEG_NKTCELL_DN, GSE28726_NAIVE_VS_ACTIVATED_VA24NEG_NKTCELL_DN
                                                                                                       WU_CELL_MIGRATION, WU_CELL_MIGRATION
                                                                                                       GSE20366_TREG_VS_NAIVE_CD4_TCELL_DN, GSE20366_TREG_VS_NAIVE_CD4_TCELL_DN
                                                                                                       HP_DRY_SKIN, HP_DRY_SKIN
                                                                                                      CHEN_LVAD_SUPPORT_OF_FAILING_HEART_UP, CHEN_LVAD_SUPPORT_OF_FAILING_HEART_UP
                                                                                                       MIR361_3P, MIR361_3P
                                                                                                       HP_RECURRENT_LOWER_RESPIRATORY_TRACT_INFECTIONS, HP_RECURRENT_LOWER_RESPIRATORY_TRACT_INFECTIONS
                                                                                                       HP_APLASIA_HYPOPLASIA_INVOLVING_THE_NOSE, HP_APLASIA_HYPOPLASIA_INVOLVING_THE_NOSE
                                                                                                       GSE29164_UNTREATED_VS_CD8_TCELL_TREATED_MELANOMA_DAY7_DN, GSE29164_UNTREATED_VS_CD8_TCELL_TREATED_MELANOMA_DAY7_DN
                                                                                                       GOBP_ORGANIC_ACID_TRANSMEMBRANE_TRANSPORT, GOBP_ORGANIC_ACID_TRANSMEMBRANE_TRANSPORT
                                                                                                       HOFT\_CD4\_POSITIVE\_ALPHA\_BETA\_MEMORY\_T\_CELL\_BCG\_VACCINE\_AGE\_18\_45YO\_56D\_TOP\_100\_DEG\_AFTER\_IN\_VITRO\_RE\_STIMULATION\_DN, HOFT\_CD4\_POSITIVE\_ALPHA\_BETA\_MEMORY\_T\_CELL\_BCG\_VACCINE\_AGE\_18\_45YO\_56D\_TOP\_100\_DEG\_AFTER\_IN\_VITRO\_RE\_STIMULATION\_DN
                                                                                                       REACTOME_SYNTHESIS_OF_PIPS_AT_THE_PLASMA_MEMBRANE, REACTOME_SYNTHESIS_OF_PIPS_AT_THE_PLASMA_MEMBRANE
                                                                                                       HP_SEPSIS, HP_SEPSIS
                                                                                                       REACTOME_PI3K_AKT_SIGNALING_IN_CANCER, REACTOME_PI3K_AKT_SIGNALING_IN_CANCER
                                                                                                       CHIANG_LIVER_CANCER_SUBCLASS_UNANNOTATED_UP, CHIANG_LIVER_CANCER_SUBCLASS_UNANNOTATED_UP
                                                                                                       HP DENTAL MALOCCLUSION, HP DENTAL MALOCCLUSION
                                                                                                      GSE360_L_DONOVANI_VS_T_GONDII_DC_UP, GSE360_L_DONOVANI_VS_T_GONDII_DC_UP
                                                                                                      GERHOLD ADIPOGENESIS UP, GERHOLD ADIPOGENESIS UP
FERTIARY_MEMORY_CD8_TCELL_UP, GSE21360_PRIMARY_VS_TERTIARY_MEMORY_CD8_TCELL_UP
                                                                                                       CCANNAGRKGGC_UNKNOWN, CCANNAGRKGGC_UNKNOWN
                                                                                                       BROWNE_HCMV_INFECTION_8HR_DN, BROWNE_HCMV_INFECTION_8HR_DN
                                                                                                       GOBP_NEUTRAL_LIPID_METABOLIC_PROCESS, GOBP_NEUTRAL_LIPID_METABOLIC_PROCESS
                                                                                                       GOBP_AMINO_ACID_TRANSPORT, GOBP_AMINO_ACID_TRANSPORT
                                                                                                       MIR486 5P, MIR486 5P
                                                                                                       GOMF_LIPASE_ACTIVITY, GOMF_LIPASE_ACTIVITY
                                                                                                       GOMF_PHOSPHOLIPASE_ACTIVITY, GOMF_PHOSPHOLIPASE_ACTIVITY
                                                                                                       GOBP_REGULATION_OF_FAT_CELL_DIFFERENTIATION, GOBP_REGULATION_OF_FAT_CELL_DIFFERENTIATION
                                                                                                       GSE34217_MIR17_92_OVEREXPRESS_VS_WT_ACT_CD8_TCELL_UP, GSE34217_MIR17_92_OVEREXPRESS_VS_WT_ACT_CD8_TCELL_UP
                                                                                                       WP_OSTEOBLAST_DIFFERENTIATION, WP_OSTEOBLAST_DIFFERENTIATION
                                                                                                       GOCC_MICROVILLUS, GOCC_MICROVILLUS
                                                                                                       HP_RETINAL_TELANGIECTASIA, HP_RETINAL_TELANGIECTASIA
                                                                                                       GOBP_POSITIVE_REGULATION_OF_ERBB_SIGNALING_PATHWAY, GOBP_POSITIVE_REGULATION_OF_ERBB_SIGNALING_PATHWAY
                                                                                                       GSE9960_HEALTHY_VS_GRAM_NEG_AND_POS_SEPSIS_PBMC_UP, GSE9960_HEALTHY_VS_GRAM_NEG_AND_POS_SEPSIS_PBMC_UP
                                                                                                       PID_RAC1_REG_PATHWAY, PID_RAC1_REG_PATHWAY
                                                                                                       REACTOME_CONSTITUTIVE_SIGNALING_BY_ABERRANT_PI3K_IN_CANCER, REACTOME_CONSTITUTIVE_SIGNALING_BY_ABERRANT_PI3K_IN_CANCER
                                                                                                       GOBP_RESPONSE_TO_DEXAMETHASONE, GOBP_RESPONSE_TO_DEXAMETHASONE
                                                                                                       MODULE_154, MODULE_154
                                                                                                       MODULE_297, MODULE_297
                                                                                                       URS_ADIPOCYTE_DIFFERENTIATION_UP, URS_ADIPOCYTE_DIFFERENTIATION_UP
                                                                                                      GOBP_LONG_TERM_SYNAPTIC_DEPRESSION, GOBP_LONG_TERM_SYNAPTIC_DEPRESSION
                                                                                                      WP_PROSTAGLANDIN_SYNTHESIS_AND_REGULATION, WP_PROSTAGLANDIN_SYNTHESIS_AND_REGULATION
                                                                                                      GOBP_RESPONSE_TO_RETINOIC_ACID, GOBP_RESPONSE_TO_RETINOIC_ACID
                                                                                                      HP_ABNORMALITY_OF_BLADDER_MORPHOLOGY, HP_ABNORMALITY_OF_BLADDER_MORPHOLOGY
                                                                                                      REACTOME_RET_SIGNALING, REACTOME_RET_SIGNALING
                                                                                                      REACTOME_RA_BIOSYNTHESIS_PATHWAY, REACTOME_RA_BIOSYNTHESIS_PATHWAY
                                                                                                      KORKOLA_TERATOMA_UP, KORKOLA_TERATOMA_UP
                                                                                                      MODULE_247, MODULE_247
                                                                                                      GOBP_NEGATIVE_REGULATION_OF_INTERLEUKIN_12_PRODUCTION, GOBP_NEGATIVE_REGULATION_OF_INTERLEUKIN_12_PRODUCTION
                                                                                                      GOBP_GLYCINE_TRANSPORT, GOBP_GLYCINE_TRANSPORT
                                                                                                      GOMF_NADPLUS_KINASE_ACTIVITY, GOMF_NADPLUS_KINASE_ACTIVITY
                                                                                                      GOBP_ENGULFMENT_OF_APOPTOTIC_CELL, GOBP_ENGULFMENT_OF_APOPTOTIC_CELL
                                                                                                      HP CUTANEOUS MELANOMA, HP CUTANEOUS MELANOMA
                                                                                                      GOBP_CELLULAR_RESPONSE_TO_RETINOIC_ACID, GOBP_CELLULAR_RESPONSE_TO_RETINOIC_ACID
                                                                                                      GOMF_SULFUR_COMPOUND_TRANSMEMBRANE_TRANSPORTER_ACTIVITY, GOMF_SULFUR_COMPOUND_TRANSMEMBRANE_TRANSPORTER_ACTIVITY
                                                                                                      CTIP_DN.V1_DN, CTIP_DN.V1_DN
                                                                                                      GOBP_NEGATIVE_REGULATION_OF_SYNAPTIC_TRANSMISSION, GOBP_NEGATIVE_REGULATION_OF_SYNAPTIC_TRANSMISSION
                                                                                                       REACTOME IMMUNOREGULATORY INTERACTIONS BETWEEN A LYMPHOID AND A NON LYMPHOID CELL, REACTOME IMMUNOREGULATORY INTERACTIONS BETWEEN A LYMPHOID AND A NON LYMPHOID CELL
                                                                                                       MINGUEZ LIVER CANCER VASCULAR INVASION DN, MINGUEZ LIVER CANCER VASCULAR INVASION DN
                                                                                                       GOBP RESPONSE TO HYPEROXIA, GOBP RESPONSE TO HYPEROXIA
                                                                                                       GOBP_PROTEIN_LIPID_COMPLEX_SUBUNIT_ORGANIZATION, GOBP_PROTEIN_LIPID_COMPLEX_SUBUNIT_ORGANIZATION
                                                                                                      REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS_VIA_24_HYDROXYCHOLESTEROL, REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS_VIA_24_HYDROXYCHOLESTEROL
                                                                                                       GOMF_ORGANIC_HYDROXY_COMPOUND_TRANSMEMBRANE_TRANSPORTER_ACTIVITY, GOMF_ORGANIC_HYDROXY_COMPOUND_TRANSMEMBRANE_TRANSPORTER_ACTIVITY
                                                                                                       GOBP_PROTEIN_CONTAINING_COMPLEX_REMODELING, GOBP_PROTEIN_CONTAINING_COMPLEX_REMODELING
                                                                                                      GOBP TRIGLYCERIDE RICH LIPOPROTEIN PARTICLE REMODELING, GOBP TRIGLYCERIDE RICH LIPOPROTEIN PARTICLE REMODELING
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GSE41176_WT_VS_TAK1_KO_ANTI_IGM_STIM_BCELL_24H_UP, GSE41176_WT_VS_TAK1_KO_ANTI_IGM_STIM_BCELL_24H_UP