```
GSE37416_12H_VS_48H_F_TULARENSIS_LVS_NEUTROPHIL_UP, GSE37416_12H_VS_48H_F_TULARENSIS_LVS_NEUTROPHIL_UP
                                                                                                                GSE42021_CD24HI_VS_CD24INT_TREG_THYMUS_DN, GSE42021_CD24HI_VS_CD24INT_TREG_THYMUS_DN
                                                                                                                GSE26890 CXCR1 NEG VS POS EFFECTOR CD8 TCELL UP, GSE26890 CXCR1 NEG VS POS EFFECTOR CD8 TCELL UP
                                                                                                                GSE21927_SPLEEN_C57BL6_VS_4T1_TUMOR_BALBC_MONOCYTES_DN, GSE21927_SPLEEN_C57BL6_VS_4T1_TUMOR_BALBC_MONOCYTES_DN
                                                                                                                GSE37533_PPARG1_FOXP3_VS_FOXP3_TRANSDUCED_CD4_TCELL_DN, GSE37533_PPARG1_FOXP3_VS_FOXP3_TRANSDUCED_CD4_TCELL_DN
                                                                                                                GSE13485_CTRL_VS_DAY7_YF17D_VACCINE_PBMC_DN, GSE13485_CTRL_VS_DAY7_YF17D_VACCINE_PBMC_DN
                                                                                                                GSE37533_PPARG2_FOXP3_VS_FOXP3_TRANSDUCED_CD4_TCELL_DN, GSE37533_PPARG2_FOXP3_VS_FOXP3_TRANSDUCED_CD4_TCELL_DN
                                                                                                                GSE6269_FLU_VS_STREP_PNEUMO_INF_PBMC_UP, GSE6269_FLU_VS_STREP_PNEUMO_INF_PBMC_UP
                                                                                                                GSE2770_TGFB_AND_IL4_ACT_VS_ACT_CD4_TCELL_2H_DN, GSE2770_TGFB_AND_IL4_ACT_VS_ACT_CD4_TCELL_2H_DN
                                                                                                                GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_6H_DN, GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_6H_DN
                                                                                                                GSE1432_1H_VS_24H_IFNG_MICROGLIA_DN, GSE1432_1H_VS_24H_IFNG_MICROGLIA_DN
                                                                                                                GSE42724 MEMORY BCELL VS PLASMABLAST UP, GSE42724 MEMORY BCELL VS PLASMABLAST UP
                                                                                                                GSE34006_A2AR_KO_VS_A2AR_AGONIST_TREATED_TREG_UP, GSE34006_A2AR_KO_VS_A2AR_AGONIST_TREATED_TREG_UP
                                                                                                                GSE42021 CD24HI VS CD24LOW TCONV THYMUS DN, GSE42021 CD24HI VS CD24LOW TCONV THYMUS DN
                                                                                                                GSE41176_WT_VS_TAK1_KO_ANTI_IGM_STIM_BCELL_6H_DN, GSE41176_WT_VS_TAK1_KO_ANTI_IGM_STIM_BCELL_6H_DN
                                                                                                                GSE1432_1H_VS_6H_IFNG_MICROGLIA_DN, GSE1432_1H_VS_6H_IFNG_MICROGLIA_DN
                                                                                                                GSE6269_FLU_VS_E_COLI_INF_PBMC_UP, GSE6269_FLU_VS_E_COLI_INF_PBMC_UP
                                                                                                                GSE6269_HEALTHY_VS_STAPH_AUREUS_INF_PBMC_UP, GSE6269_HEALTHY_VS_STAPH_AUREUS_INF_PBMC_UP
                                                                                                                GSE25085 FETAL BM_VS_ADULT_BM_SP4_THYMIC_IMPLANT_UP, GSE25085 FETAL_BM_VS_ADULT_BM_SP4_THYMIC_IMPLANT_UP
                                                                                                                GSE37533_PPARG1_FOXP3_VS_FOXP3_TRANSDUCED_CD4_TCELL_PIOGLITAZONE_TREATED_UP, GSE37533_PPARG1_FOXP3_VS_FOXP3_TRANSDUCED_CD4_TCELL_PIOGLITAZONE_TREATED_UP
                                                                                                                GSE42021 TREG PLN VS CD24INT TREG THYMUS DN, GSE42021 TREG PLN VS CD24INT TREG THYMUS DN
                                                                                                                GSE7548_NAIVE_VS_DAY7_PCC_IMMUNIZATION_CD4_TCELL_DN, GSE7548_NAIVE_VS_DAY7_PCC_IMMUNIZATION_CD4_TCELL_DN
                                                                                                                GSE36891_UNSTIM_VS_POLYIC_TLR3_STIM_PERITONEAL_MACROPHAGE_DN, GSE36891_UNSTIM_VS_POLYIC_TLR3_STIM_PERITONEAL_MACROPHAGE_DN
                                                                                                                GSE1432_CTRL_VS_IFNG_24H_MICROGLIA_DN, GSE1432_CTRL_VS_IFNG_24H_MICROGLIA_DN
                                                                                                                GSE22886 CTRL VS LPS 24H DC DN, GSE22886 CTRL VS LPS 24H DC DN
                                                                                                               GAUCHER_PBMC_YF_VAX_STAMARIL_UNKNOWN_AGE_10DY_UP, GAUCHER_PBMC_YF_VAX_STAMARIL_UNKNOWN_AGE_10DY_UP
                                                                                                               GSE42021_TREG_VS_TCONV_PLN_UP, GSE42021_TREG_VS_TCONV_PLN_UP
                                                                                                               GSE37533_PPARG1_FOXP3_VS_PPARG2_FOXP3_TRANSDUCED_CD4_TCELL_PIOGLITAZONE_TREATED_DN, GSE37533_PPARG1_FOXP3_VS_PPARG2_FOXP3_TRANSDUCED_CD4_TCELL_PIOGLITAZONE_T
                                                                                                               GSE14415_INDUCED_TREG_VS_FAILED_INDUCED_TREG_DN, GSE14415_INDUCED_TREG_VS_FAILED_INDUCED_TREG_DN
                                                                                                               GSE36826_WT_VS_IL1R_KO_SKIN_STAPH_AUREUS_INF_DN, GSE36826_WT_VS_IL1R_KO_SKIN_STAPH_AUREUS_INF_DN
                                                                                                               GSE41978_ID2_KO_VS_BIM_KO_KLRG1_LOW_EFFECTOR_CD8_TCELL_UP, GSE41978_ID2_KO VS BIM KO KLRG1 LOW EFFECTOR CD8 TCELL UP
                                                                                                               GSE14000_UNSTIM_VS_16H_LPS_DC_DN, GSE14000_UNSTIM_VS_16H_LPS_DC_DN
                                                                                                               GSE18791_UNSTIM_VS_NEWCATSLE_VIRUS_DC_6H_DN, GSE18791_UNSTIM_VS_NEWCATSLE_VIRUS_DC_6H_DN
                                                                                                               GSE24634_TEFF_VS_TCONV_DAY5_IN_CULTURE_DN, GSE24634_TEFF_VS_TCONV_DAY5_IN_CULTURE_DN
                                                                                                                GSE1432 CTRL VS IFNG 6H MICROGLIA DN, GSE1432 CTRL VS IFNG 6H MICROGLIA DN
                                                                                                               GSE22601_IMMATURE_CD4_SINGLE_POSITIVE_VS_CD8_SINGLE_POSITIVE_THYMOCYTE_DN, GSE22601_IMMATURE_CD4_SINGLE_POSITIVE_VS_CD8_SINGLE_POSITIVE_THYMOCYTE_DN
                                                                                                               GSE15930 STIM VS STIM AND TRICHOSTATINA 48H CD8 T CELL DN, GSE15930 STIM VS STIM AND TRICHOSTATINA 48H CD8 T CELL DN
                                                                                                                GSE37534_UNTREATED_VS_ROSIGLITAZONE_TREATED_CD4_TCELL_PPARG1_AND_FOXP3_TRASDUCED_DN, GSE37534_UNTREATED_VS_ROSIGLITAZONE_TREATED_CD4_TCELL_PPARG1_AND_FOXP
                                                                                                                GSE37534_UNTREATED_VS_GW1929_TREATED_CD4_TCELL_PPARG1_AND_FOXP3_TRASDUCED_UP, GSE37534_UNTREATED_VS_GW1929_TREATED_CD4_TCELL_PPARG1_AND_FOXP3_TRASDUCED_UP
                                                                                                                GSE11961_FOLLICULAR_BCELL_VS_MEMORY_BCELL_DAY7_UP, GSE11961_FOLLICULAR_BCELL_VS_MEMORY_BCELL_DAY7_UP
                                                                                                                GSE16755_CTRL_VS_IFNA_TREATED_MAC_DN, GSE16755_CTRL_VS_IFNA_TREATED_MAC_DN
                                                                                                                GSE13485_CTRL_VS_DAY3_YF17D_VACCINE_PBMC_DN, GSE13485_CTRL_VS_DAY3_YF17D_VACCINE_PBMC_DN
                                                                                                                GSE21360 PRIMARY VS TERTIARY MEMORY CD8 TCELL DN, GSE21360 PRIMARY VS TERTIARY MEMORY CD8 TCELL DN
                                                                                                                GSE36527 CD62L HIGH VS CD62L LOW TREG CD69 NEG KLRG1 NEG UP, GSE36527 CD62L HIGH VS CD62L LOW TREG CD69 NEG KLRG1 NEG UP
                                                                                                                GSE40274 FOXP3 VS FOXP3 AND GATA1 TRANSDUCED ACTIVATED CD4 TCELL DN, GSE40274 FOXP3 VS FOXP3 AND GATA1 TRANSDUCED ACTIVATED CD4 TCELL DN
                                                                                                                GSE18281_SUBCAPSULAR_VS_CENTRAL_CORTICAL_REGION_OF_THYMUS_UP, GSE18281_SUBCAPSULAR_VS_CENTRAL_CORTICAL_REGION_OF_THYMUS_UP
                                                                                                                GSE13485_DAY3_VS_DAY7_YF17D_VACCINE_PBMC_DN, GSE13485_DAY3_VS_DAY7_YF17D_VACCINE_PBMC_DN
                                                                                                                GSE6259_DEC205_POS_DC_VS_BCELL_DN, GSE6259_DEC205_POS_DC_VS_BCELL_DN
                                                                                                                GSE34156_UNTREATED_VS_6H_NOD2_LIGAND_TREATED_MONOCYTE_DN, GSE34156_UNTREATED_VS_6H_NOD2_LIGAND_TREATED_MONOCYTE_DN
                                                                                                                GSE36009_WT_VS_NLRP10_KO_DC_UP, GSE36009_WT_VS_NLRP10_KO_DC_UP
                                                                                                                GSE45365 HEALTHY VS MCMV INFECTION CD8A DC IFNAR KO DN, GSE45365 HEALTHY VS MCMV INFECTION CD8A DC IFNAR KO DN
                                                                                                                GSE14000_UNSTIM_VS_4H_LPS_DC_DN, GSE14000_UNSTIM_VS_4H_LPS_DC_DN
                                                                                                                GSE46606_UNSTIM_VS_CD40L_IL2_IL5_3DAY_STIMULATED_IRF4MID_SORTED_BCELL_DN, GSE46606_UNSTIM_VS_CD40L_IL2_IL5_3DAY_STIMULATED_IRF4MID_SORTED_BCELL_DN
                                                                                                                GSE42724_NAIVE_BCELL_VS_PLASMABLAST_UP, GSE42724_NAIVE_BCELL_VS_PLASMABLAST_UP
                                                                                                                GSE34006_WT_VS_A2AR_KO_TREG_DN, GSE34006_WT_VS_A2AR_KO_TREG_DN
                                                                                                                GSE40685_TREG_VS_FOXP3_KO_TREG_PRECURSOR_UP, GSE40685_TREG_VS_FOXP3_KO_TREG_PRECURSOR_UP
                                                                                                                GSE43863 DAY6 EFF VS DAY150 MEM TFH CD4 TCELL UP, GSE43863 DAY6 EFF VS DAY150 MEM TFH CD4 TCELL UP
                                                                                                                GSE17721_LPS_VS_GARDIQUIMOD_12H_BMDC_UP, GSE17721_LPS_VS_GARDIQUIMOD_12H_BMDC_UP
                                                                                                                GSE26030_TH1_VS_TH17_DAY5_POST_POLARIZATION_UP, GSE26030_TH1_VS_TH17_DAY5_POST_POLARIZATION_UP
                                                                                                                GSE17721_0.5H_VS_8H_CPG_BMDC_DN, GSE17721_0.5H_VS_8H_CPG_BMDC_DN
                                                                                                                GSE24634_IL4_VS_CTRL_TREATED_NAIVE_CD4_TCELL_DAY3_DN, GSE24634_IL4_VS_CTRL_TREATED_NAIVE_CD4_TCELL_DAY3_DN
                                                                                                                GSE15624_CTRL_VS_3H_HALOFUGINONE_TREATED_CD4_TCELL_UP, GSE15624_CTRL_VS_3H_HALOFUGINONE_TREATED_CD4_TCELL_UP
                                                                                                                GSE42021_TREG_PLN_VS_TREG_PRECURSORS_THYMUS_DN, GSE42021_TREG_PLN_VS_TREG_PRECURSORS_THYMUS_DN
                                                                                                                GSE21360_NAIVE_VS_SECONDARY_MEMORY_CD8_TCELL_DN, GSE21360_NAIVE_VS_SECONDARY_MEMORY_CD8_TCELL_DN
                                                                                                                LTE2_UP.V1_DN, LTE2_UP.V1_DN
                                                                                                                GSE17721_12H_VS_24H_LPS_BMDC_UP, GSE17721_12H_VS_24H_LPS_BMDC_UP
                                                                                                                GSE43863_TFH_VS_LY6C_LOW_CXCR5NEG_EFFECTOR_CD4_TCELL_UP, GSE43863_TFH_VS_LY6C_LOW_CXCR5NEG_EFFECTOR_CD4_TCELL_UP
                                                                                                                GSE22140_GERMFREE_VS_SPF_MOUSE_CD4_TCELL_UP, GSE22140_GERMFREE_VS_SPF_MOUSE_CD4_TCELL_UP
                                                                                                                GSE13547_2H_VS_12_H_ANTI_IGM_STIM_ZFX_KO_BCELL_UP, GSE13547_2H_VS_12_H_ANTI_IGM_STIM_ZFX_KO_BCELL_UP
                                                                                                                GSE40685_TREG_VS_FOXP3_KO_TREG_PRECURSOR_DN, GSE40685_TREG_VS_FOXP3_KO_TREG_PRECURSOR_DN
                                                                                                                GSE21546 WT_VS_SAP1A_KO_DP_THYMOCYTES_UP, GSE21546 WT_VS_SAP1A_KO_DP_THYMOCYTES_UP
                                                                                                                GSE41867_DAY6_EFFECTOR_VS_DAY30_EXHAUSTED_CD8_TCELL_LCMV_CLONE13_UP, GSE41867_DAY6_EFFECTOR_VS_DAY30_EXHAUSTED_CD8_TCELL_LCMV_CLONE13_UP
                                                                                                                GSE3982_CTRL_VS_LPS_4H_MAC_DN, GSE3982_CTRL_VS_LPS_4H_MAC_DN
                                                                                                                GSE35435_RESTING_VS_IL4_TREATED_MACROPHAGE_UP, GSE35435_RESTING_VS_IL4_TREATED_MACROPHAGE_UP
                                                                                                                GSE17721_PAM3CSK4_VS_GADIQUIMOD_4H_BMDC_DN, GSE17721_PAM3CSK4_VS_GADIQUIMOD_4H_BMDC_DN
                                                                                                                JISON_SICKLE_CELL_DISEASE_UP, JISON_SICKLE_CELL_DISEASE_UP
                                                                                                                ERBB2_UP.V1_DN, ERBB2_UP.V1_DN
                                                                                                                GSE27241_CTRL_VS_DIGOXIN_TREATED_CD4_TCELL_IN_TH17_POLARIZING_CONDITIONS_DN, GSE27241_CTRL_VS_DIGOXIN_TREATED_CD4_TCELL_IN_TH17_POLARIZING_CONDITIONS_DN
                                                                                                                GSE24634_IL4_VS_CTRL_TREATED_NAIVE_CD4_TCELL_DAY5_DN, GSE24634_IL4_VS_CTRL_TREATED_NAIVE_CD4_TCELL_DAY5_DN
                                                                                                                GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 10H DN, GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 10H DN
                                                                                                                GSE37301 MULTIPOTENT PROGENITOR VS GRAN MONO PROGENITOR DN, GSE37301 MULTIPOTENT PROGENITOR VS GRAN MONO PROGENITOR DN
                                                                                                                GSE24026_PD1_LIGATION_VS_CTRL_IN_ACT_TCELL_LINE_UP, GSE24026_PD1_LIGATION_VS_CTRL_IN_ACT_TCELL_LINE_UP
                                                                                                                GSE22196_HEALTHY_VS_OBESE_MOUSE_SKIN_GAMMADELTA_TCELL_UP, GSE22196_HEALTHY_VS_OBESE_MOUSE_SKIN_GAMMADELTA_TCELL_UP
                                                                                                                GSE29618_BCELL_VS_PDC_UP, GSE29618_BCELL_VS_PDC_UP
                                                                                                                GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_8H_DN, GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_8H_DN
                                                                                                                GSE13484 3H UNSTIM VS YF17D VACCINE STIM PBMC DN, GSE13484 3H UNSTIM VS YF17D VACCINE STIM PBMC DN
                                                                                                                GSE7768_OVA_ALONE_VS_OVA_WITH_MPL_IMMUNIZED_MOUSE_WHOLE_SPLEEN_6H_DN, GSE7768_OVA_ALONE_VS_OVA_WITH_MPL_IMMUNIZED_MOUSE_WHOLE_SPLEEN_6H_DN
                                                                                                                GSE21360_PRIMARY_VS_QUATERNARY_MEMORY_CD8_TCELL_UP, GSE21360_PRIMARY_VS_QUATERNARY_MEMORY_CD8_TCELL_UP
                                                                                                                HOWARD_DENDRITIC_CELL_INACT_MONOV_INFLUENZA_A_INDONESIA_05_2005_H5N1_AGE_18_49YO_1DY_UP, HOWARD_DENDRITIC_CELL_INACT_MONOV_INFLUENZA_A_INDONESIA_05_2005_I
                                                                                                                TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_UP, TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_UP
                                                                                                                GSE7509_UNSTIM_VS_FCGRIIB_STIM_DC_DN, GSE7509_UNSTIM_VS_FCGRIIB_STIM_DC_DN
                                                                                                                GSE44649_WT_VS_MIR155_KO_NAIVE_CD8_TCELL_DN, GSE44649_WT_VS_MIR155_KO_NAIVE_CD8_TCELL_DN
                                                                                                                GSE1925 3H VS 24H IFNG STIM MACROPHAGE DN, GSE1925 3H VS 24H IFNG STIM MACROPHAGE DN
                                                                                                                GSE3982_MAST_CELL_VS_BCELL_DN, GSE3982_MAST_CELL_VS_BCELL_DN
                                                                                                                GSE21546_ELK1_KO_VS_SAP1A_KO_AND_ELK1_KO_DP_THYMOCYTES_UP, GSE21546_ELK1_KO_VS_SAP1A_KO_AND_ELK1_KO_DP_THYMOCYTES_UP
                                                                                                                GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_10H_DN, GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_10H_DN
                                                                                                                GSE18281_MEDULLARY_THYMOCYTE_VS_WHOLE_MEDULLA_THYMUS_DN, GSE18281_MEDULLARY_THYMOCYTE_VS_WHOLE_MEDULLA_THYMUS_DN
                                                                                                                GSE42021 CD24HI VS CD24INT TCONV THYMUS DN, GSE42021 CD24HI VS CD24INT TCONV THYMUS DN
                                                                                                                GSE39382 IL3_VS_IL3_IL33_TREATED_MAST_CELL_DN, GSE39382_IL3_VS_IL3_IL33_TREATED_MAST_CELL_DN
                                                                                                                GOMF_RNA_HELICASE_ACTIVITY, GOMF_RNA_HELICASE_ACTIVITY
                                                                                                               STTTCRNTTT_IRF_Q6, STTTCRNTTT_IRF_Q6
                                                                                                                GSE3982 BCELL VS TH2 UP, GSE3982 BCELL VS TH2 UP
                                                                                                                JOHNSTONE_PARVB_TARGETS_2_UP, JOHNSTONE_PARVB_TARGETS_2_UP
                                                                                                                GSE19888_ADENOSINE_A3R_INH_VS_INH_PRETREAT_AND_ACT_WITH_TCELL_MEMBRANES_MAST_CELL_UP, GSE19888_ADENOSINE_A3R_INH_VS_INH_PRETREAT_AND_ACT_WITH_TCELL_MEMBRANES
                                                                                                                GSE22140_GERMFREE_VS_SPF_ARTHRITIC_MOUSE_CD4_TCELL_UP, GSE22140_GERMFREE_VS_SPF_ARTHRITIC_MOUSE_CD4_TCELL_UP
                                                                                                                GSE34205 RSV VS FLU INF INFANT PBMC DN, GSE34205 RSV VS FLU INF INFANT PBMC DN
                                                                                                                GSE7348_UNSTIM_VS_TOLERIZED_AND_LPS_STIM_MACROPHAGE_DN, GSE7348_UNSTIM_VS_TOLERIZED_AND_LPS_STIM_MACROPHAGE_DN
                                                                                                                GSE14000_UNSTIM_VS_4H_LPS_DC_TRANSLATED_RNA_DN, GSE14000_UNSTIM_VS_4H_LPS_DC_TRANSLATED_RNA_DN
                                                                                                                GOBP_TYPE_I_INTERFERON_PRODUCTION, GOBP_TYPE_I_INTERFERON_PRODUCTION
                                                                                                                GSE41867_MEMORY_VS_EXHAUSTED_CD8_TCELL_DAY30_LCMV_UP, GSE41867_MEMORY_VS_EXHAUSTED_CD8_TCELL_DAY30_LCMV_UP
                                                                                                                GSE9960_HEALTHY_VS_GRAM_POS_SEPSIS_PBMC_DN, GSE9960_HEALTHY_VS_GRAM_POS_SEPSIS_PBMC_DN
                                                                                                                GSE1925_CTRL_VS_24H_IFNG_STIM_MACROPHAGE_UP, GSE1925_CTRL_VS_24H_IFNG_STIM_MACROPHAGE_UP
                                                                                                                GSE2706_2H_VS_8H_LPS_STIM_DC_DN, GSE2706_2H_VS_8H_LPS_STIM_DC_DN
                                                                                                                GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_16H_DN, GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_16H_DN
                                                                                                                GSE22432_MULTIPOTENT_VS_COMMON_DC_PROGENITOR_DN, GSE22432_MULTIPOTENT_VS_COMMON_DC_PROGENITOR_DN
                                                                                                                HOWARD_NEUTROPHIL_INACT_MONOV_INFLUENZA_A_INDONESIA_05_2005_H5N1_AGE_18_49YO_3DY_UP, HOWARD_NEUTROPHIL_INACT_MONOV_INFLUENZA_A_INDONESIA_05_18_49YO_3DY_UP, HOWARD_NEUTROPHIL_INACT_MONOV_INFLUENZA_A_INDONESIA_05_18_49YO_3DY_UP, HOWARD_NEUTROPHIL_INACT_MONOV_INFLUENTA_INFLUENTA_INFLUENTA_INFLUENTA_INFLUENTA_INFLUENTA_INFLUENTA_INFLUENTA_INFLUENTA_INFLUENTA_INFLUENTA_INFLUENTA_INFLUENTA_INFLUENTA_INFLUENTA_INFLUENTA_INFLUENTA_INFL
                                                                                                                GSE19888_ADENOSINE_A3R_INH_VS_TCELL_MEMBRANES_ACT_MAST_CELL_UP, GSE19888_ADENOSINE_A3R_INH_VS_TCELL_MEMBRANES_ACT_MAST_CELL_UP
                                                                                                                GSE29618_BCELL_VS_PDC_DAY7_FLU_VACCINE_UP, GSE29618_BCELL_VS_PDC_DAY7_FLU_VACCINE_UP
                                                                                                                GSE5679_PPARG_LIGAND_ROSIGLITAZONE_VS_RARA_AGONIST_AM580_TREATED_DC_DN, GSE5679_PPARG_LIGAND_ROSIGLITAZONE_VS_RARA_AGONIST_AM580_TREATED_DC_DN
                                                                                                                GSE41867_DAY15_EFFECTOR_VS_DAY30_EXHAUSTED_CD8_TCELL_LCMV_CLONE13_UP, GSE41867_DAY15_EFFECTOR_VS_DAY30_EXHAUSTED_CD8_TCELL_LCMV_CLONE13_UP
                                                                                                                GSE11961_FOLLICULAR_BCELL_VS_GERMINAL_CENTER_BCELL_DAY7_DN, GSE11961_FOLLICULAR_BCELL_VS_GERMINAL_CENTER_BCELL_DAY7_DN
                                                                                                                TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_16D_UP, TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_16D_UP
                                                                                                                GSE9509_LPS_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_10MIN_UP, GSE9509_LPS_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_10MIN_UP
                                                                                                                GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_18H_DN, GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_18H_DN
                                                                                                                GSE22432_MULTIPOTENT_PROGENITOR_VS_PDC_UP, GSE22432_MULTIPOTENT_PROGENITOR_VS_PDC_UP
                                                                                                                GSE42021_TCONV_PLN_VS_CD24HI_TCONV_THYMUS_DN, GSE42021_TCONV_PLN_VS_CD24HI_TCONV_THYMUS_DN
                                                                                                                GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_4H_DN, GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_4H_DN
                                                                                                                GSE7348_LPS_VS_TOLERIZED_AND_LPS_STIM_MACROPHAGE_DN, GSE7348_LPS_VS_TOLERIZED_AND_LPS_STIM_MACROPHAGE_DN
                                                                                                                GSE42021_CD24INT_VS_CD24LOW_TREG_THYMUS_DN, GSE42021_CD24INT_VS_CD24LOW_TREG_THYMUS_DN
RNARY_MEMORY_CD8_TCELL_DN, GSE21360_NAIVE_VS_QUATERNARY_MEMORY_CD8_TCELL_DN
                                                                                                                GSE24081_CONTROLLER_VS_PROGRESSOR_HIV_SPECIFIC_CD8_TCELL_DN, GSE24081_CONTROLLER_VS_PROGRESSOR_HIV_SPECIFIC_CD8_TCELL_DN
                                                                                                                GSE35825_IFNA_VS_IFNG_STIM_MACROPHAGE_UP, GSE35825_IFNA_VS_IFNG_STIM_MACROPHAGE_UP
                                                                                                                GSE42021_CD24INT_VS_CD24LOW_TCONV_THYMUS_DN, GSE42021_CD24INT_VS_CD24LOW_TCONV_THYMUS_DN
                                                                                                                GSE17974_IL4_AND_ANTI_IL12_VS_UNTREATED_72H_ACT_CD4_TCELL_DN, GSE17974_IL4_AND_ANTI_IL12_VS_UNTREATED_72H_ACT_CD4_TCELL_DN
                                                                                                                GSE14415_INDUCED_VS_NATURAL_TREG_UP, GSE14415_INDUCED_VS_NATURAL_TREG_UP
                                                                                                                GSE2706_2H_VS_8H_R848_STIM_DC_DN, GSE2706_2H_VS_8H_R848_STIM_DC_DN
                                                                                                                GNF2_DDX5, GNF2_DDX5
                                                                                                                GSE23505 IL6 IL1 IL23 VS IL6 IL1 TGFB TREATED CD4 TCELL UP, GSE23505 IL6 IL1 IL23 VS IL6 IL1 TGFB TREATED CD4 TCELL UP
                                                                                                                GSE1791_CTRL_VS_NEUROMEDINU_IN_T_CELL_LINE_3H_UP, GSE1791_CTRL_VS_NEUROMEDINU_IN_T_CELL_LINE_3H_UP
                                                                                                                GSE36392_TYPE_2_MYELOID_VS_EOSINOPHIL_IL25_TREATED_LUNG_DN, GSE36392_TYPE_2_MYELOID_VS_EOSINOPHIL_IL25_TREATED_LUNG_DN
                                                                                                                GSE17721_CTRL_VS_POLYIC_8H_BMDC_DN, GSE17721_CTRL_VS_POLYIC_8H_BMDC_DN
                                                                                                                GSE17721_LPS_VS_GARDIQUIMOD_2H_BMDC_UP, GSE17721_LPS_VS_GARDIQUIMOD_2H_BMDC_UP
                                                                                                                GSE1740 UNSTIM VS IFNA STIMULATED MCSF DERIVED MACROPHAGE DN, GSE1740 UNSTIM VS IFNA STIMULATED MCSF DERIVED MACROPHAGE DN
                                                                                                                LEF1_UP.V1_DN, LEF1_UP.V1_DN
                                                                                                                GSE42724_NAIVE_VS_MEMORY_BCELL_UP, GSE42724_NAIVE_VS_MEMORY_BCELL_UP
                                                                                                                GSE19888_ADENOSINE_A3R_INH_VS_ACT_IN_MAST_CELL_DN, GSE19888_ADENOSINE_A3R_INH_VS_ACT_IN_MAST_CELL_DN
                                                                                                                GSE5455 EX VIVO VS POST 24H INCUBATION MONOCYTES FROM TUMOR BEARING MOUSE DN, GSE5455 EX VIVO VS POST 24H INCUBATION MONOCYTES FROM TUMOR BEARING MOUSE
                                                                                                                GSE3982_DC_VS_MAC_UP, GSE3982_DC_VS_MAC_UP
                                                                                                                GSE360_L_MAJOR_VS_M_TUBERCULOSIS_DC_DN, GSE360_L_MAJOR_VS_M_TUBERCULOSIS_DC_DN
                                                                                                                MODULE_119, MODULE_119
                                                                                                                GSE11961_MARGINAL_ZONE_BCELL_VS_MEMORY_BCELL_DAY7_UP, GSE11961_MARGINAL_ZONE_BCELL_VS_MEMORY_BCELL_DAY7_UP
                                                                                                                GSE8835_HEALTHY_VS_CLL_CD4_TCELL_UP, GSE8835_HEALTHY_VS_CLL_CD4_TCELL_UP
                                                                                                                GSE17721_CTRL_VS_POLYIC_4H_BMDC_DN, GSE17721_CTRL_VS_POLYIC_4H_BMDC_DN
                                                                                                                GSE3982_DC_VS_MAC_LPS_STIM_DN, GSE3982_DC_VS_MAC_LPS_STIM_DN
                                                                                                                GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_2H_DN, GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_2H_DN
                                                                                                                ZAK_PBMC_MRKAD5_HIV_1_GAG_POL_NEF_AGE_20_50YO_1DY_ADDNL_EXON_LVL_UP, ZAK_PBMC_MRKAD5_HIV_1_GAG_POL_NEF_AGE_20_50YO_1DY_ADDNL_EXON_LVL_UP
                                                                                                                MIKKELSEN_MCV6_LCP_WITH_H3K4ME3, MIKKELSEN_MCV6_LCP_WITH_H3K4ME3
                                                                                                                TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_UP, TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_UP
                                                                                                                GSE33162_HDAC3_KO_VS_HDAC3_KO_MACROPHAGE_UP, GSE33162_HDAC3_KO_VS_HDAC3_KO_MACROPHAGE_UP
                                                                                                                MODULE_188, MODULE_188
                                                                                                                GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 18H DN, GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 18H DN
                                                                                                                GSE2585_THYMIC_DC_VS_MTEC_DN, GSE2585_THYMIC_DC_VS_MTEC_DN
                                                                                                                MANNE_COVID19_COMBINED_COHORT_VS_HEALTHY_DONOR_PLATELETS_UP, MANNE_COVID19_COMBINED_COHORT_VS_HEALTHY_DONOR_PLATELETS_UP
                                                                                                                GNF2 SELL, GNF2 SELL
                                                                                                                GSE4590_PRE_BCELL_VS_LARGE_PRE_BCELL_UP, GSE4590_PRE_BCELL_VS_LARGE_PRE_BCELL_UP
                                                                                                                MIKKELSEN MEF LCP WITH H3K4ME3, MIKKELSEN_MEF_LCP_WITH_H3K4ME3
                                                                                                                GSE2706_R848_VS_R848_AND_LPS_2H_STIM_DC_DN, GSE2706_R848_VS_R848_AND_LPS_2H_STIM_DC_DN
                                                                                                                GSE17974_IL4_AND_ANTI_IL12_VS_UNTREATED_48H_ACT_CD4_TCELL_DN, GSE17974_IL4_AND_ANTI_IL12_VS_UNTREATED_48H_ACT_CD4_TCELL_DN
                                                                                                                GOBP_MOVEMENT_IN_HOST_ENVIRONMENT, GOBP_MOVEMENT_IN_HOST_ENVIRONMENT
                                                                                                                GOBP_INTERFERON_GAMMA_MEDIATED_SIGNALING_PATHWAY, GOBP_INTERFERON_GAMMA_MEDIATED_SIGNALING_PATHWAY
                                                                                                                GSE17974_IL4_AND_ANTI_IL12_VS_UNTREATED_24H_ACT_CD4_TCELL_DN, GSE17974_IL4_AND_ANTI_IL12_VS_UNTREATED_24H_ACT_CD4_TCELL_DN
                                                                                                                GSE369_PRE_VS_POST_IL6_INJECTION_IFNG_WT_LIVER_UP, GSE369_PRE_VS_POST_IL6_INJECTION_IFNG_WT_LIVER_UP
                                                                                                                GOBP ENTRY INTO HOST, GOBP ENTRY INTO HOST
                                                                                                                GSE2770_IL12_VS_TGFB_AND_IL12_TREATED_ACT_CD4_TCELL_2H_DN, GSE2770_IL12_VS_TGFB_AND_IL12_TREATED_ACT_CD4_TCELL_2H_DN
                                                                                                                MANNE_COVID19_ICU_VS_HEALTHY_DONOR_PLATELETS_UP, MANNE_COVID19_ICU_VS_HEALTHY_DONOR_PLATELETS_UP
                                                                                                                SANA_RESPONSE_TO_IFNG_UP, SANA_RESPONSE_TO_IFNG_UP
                                                                                                                MODULE 145, MODULE 145
                                                                                                                GOBP REGULATION OF VIRAL GENOME REPLICATION, GOBP REGULATION OF VIRAL GENOME REPLICATION
                                                                                                                GSE22432_MULTIPOTENT_PROGENITOR_VS_CDC_UP, GSE22432_MULTIPOTENT_PROGENITOR_VS_CDC_UP
                                                                                                                GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_14H_DN, GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_14H_DN
                                                                                                                WP_NOVEL_INTRACELLULAR_COMPONENTS_OF_RIGILIKE_RECEPTOR_RLR_PATHWAY, WP_NOVEL_INTRACELLULAR_COMPONENTS_OF_RIGILIKE_RECEPTOR_RLR_PATHWAY
                                                                                                                MODULE 436, MODULE 436
                                                                                                                MIKKELSEN_IPS_LCP_WITH_H3K4ME3, MIKKELSEN_IPS_LCP_WITH_H3K4ME3
                                                                                                                GSE45365_NK_CELL_VS_CD8A_DC_MCMV_INFECTION_UP, GSE45365_NK_CELL_VS_CD8A_DC_MCMV_INFECTION_UP
                                                                                                                HP_DEMYELINATING_PERIPHERAL_NEUROPATHY, HP_DEMYELINATING_PERIPHERAL_NEUROPATHY
                                                                                                                MODULE_345, MODULE_345
                                                                                                                BMI1_DN.V1_DN, BMI1_DN.V1_DN
                                                                                                                WNT_UP.V1_DN, WNT_UP.V1_DN
                                                                                                                MODULE 292, MODULE 292
                                                                                                                GSE28737_BCL6_HET_VS_BCL6_KO_MARGINAL_ZONE_BCELL_UP, GSE28737_BCL6_HET_VS_BCL6_KO_MARGINAL_ZONE_BCELL_UP
                                                                                                                GOBP_REGULATION_OF_DEFENSE_RESPONSE_TO_VIRUS, GOBP_REGULATION_OF_DEFENSE_RESPONSE_TO_VIRUS
                                                                                                                HP_ABNORMAL_BRONCHUS_MORPHOLOGY, HP_ABNORMAL_BRONCHUS_MORPHOLOGY
                                                                                                                GSE2770_IL12_AND_TGFB_VS_IL4_TREATED_ACT_CD4_TCELL_48H_DN, GSE2770_IL12_AND_TGFB_VS_IL4_TREATED_ACT_CD4_TCELL_48H_DN
                                                                                                                GSE43863_NAIVE_VS_MEMORY_TH1_CD4_TCELL_D150_LCMV_UP, GSE43863_NAIVE_VS_MEMORY_TH1_CD4_TCELL_D150_LCMV_UP
                                                                                                                HP_MULTIPLE_JOINT_CONTRACTURES, HP_MULTIPLE_JOINT_CONTRACTURES
                                                                                                                BMI1_DN_MEL18_DN.V1_DN, BMI1_DN_MEL18_DN.V1_DN
                                                                                                                GSE13229 MATURE VS INTMATURE NKCELL UP, GSE13229 MATURE VS INTMATURE NKCELL UP
                                                                                                                HAHTOLA_MYCOSIS_FUNGOIDES_CD4_UP, HAHTOLA_MYCOSIS_FUNGOIDES_CD4_UP
                                                                                                                KEGG_RIG_I_LIKE_RECEPTOR_SIGNALING_PATHWAY, KEGG_RIG_I_LIKE_RECEPTOR_SIGNALING_PATHWAY
                                                                                                                ALK_DN.V1_DN, ALK_DN.V1_DN
                                                                                                                GSE9037_WT_VS_IRAK4_KO_LPS_1H_STIM_BMDM_DN, GSE9037_WT_VS_IRAK4_KO_LPS_1H_STIM_BMDM_DN
                                                                                                                GSE29949_DC_BRAIN_VS_MONOCYTE_BONE_MARROW_DN, GSE29949_DC_BRAIN_VS_MONOCYTE_BONE_MARROW_DN
                                                                                                                HOEK_NEUTROPHIL_2011_2012_TIV_ADULT_7DY_DN, HOEK_NEUTROPHIL_2011_2012_TIV_ADULT_7DY_DN
                                                                                                                GSE22935_UNSTIM_VS_12H_MBOVIS_BCG_STIM_MYD88_KO_MACROPHAGE_UP, GSE22935_UNSTIM_VS_12H_MBOVIS_BCG_STIM_MYD88_KO_MACROPHAGE_UP
                                                                                                                CASTELLANO_NRAS_TARGETS_UP, CASTELLANO_NRAS_TARGETS_UP
                                                                                                                XU_AKT1_TARGETS_6HR, XU_AKT1_TARGETS_6HR
                                                                                                                GSE21546_UNSTIM_VS_ANTI_CD3_STIM_SAP1A_KO_AND_ELK1_KO_DP_THYMOCYTES_UP, GSE21546_UNSTIM_VS_ANTI_CD3_STIM_SAP1A_KO_AND_ELK1_KO_DP_THYMOCYTES_UP
                                                                                                                GOBP POSITIVE REGULATION OF RESPONSE TO CYTOKINE STIMULUS, GOBP POSITIVE REGULATION OF RESPONSE TO CYTOKINE STIMULUS
                                                                                                                BOYAULT LIVER CANCER SUBCLASS G1 DN, BOYAULT LIVER CANCER SUBCLASS G1 DN
                                                                                                               MIR6880_5P, MIR6880_5P
                                                                                                                GSE9960_GRAM_NEG_VS_GRAM_NEG_AND_POS_SEPSIS_PBMC_UP, GSE9960_GRAM_NEG_VS_GRAM_NEG_AND_POS_SEPSIS_PBMC_UP
                                                                                                                GOBP_MITOCHONDRIAL_FISSION, GOBP_MITOCHONDRIAL_FISSION
                                                                                                                GOBP EXECUTION PHASE OF APOPTOSIS, GOBP EXECUTION PHASE OF APOPTOSIS
                                                                                                                HP_MYOSITIS, HP_MYOSITIS
                                                                                                                KRAS.KIDNEY_UP.V1_DN, KRAS.KIDNEY_UP.V1_DN
                                                                                                                TSAI RESPONSE TO RADIATION THERAPY, TSAI RESPONSE TO RADIATION THERAPY
                                                                                                                PTEN DN.V1 UP, PTEN DN.V1 UP
                                                                                                                GOMF_CYSTEINE_TYPE_ENDOPEPTIDASE_REGULATOR_ACTIVITY_INVOLVED_IN_APOPTOTIC_PROCESS, GOMF_CYSTEINE_TYPE_ENDOPEPTIDASE_REGULATOR_ACTIVITY_INVOLVED_IN_APOPTOTIC
                                                                                                                FURUKAWA DUSP6 TARGETS PCI35 UP, FURUKAWA DUSP6 TARGETS PCI35 UP
                                                                                                                GOBP RESPONSE TO DSRNA, GOBP RESPONSE TO DSRNA
                                                                                                               TAVOR CEBPA TARGETS DN. TAVOR CEBPA TARGETS DN
                                                                                                               HAN_JNK_SINGALING_UP, HAN_JNK_SINGALING_UP
                                                                                                               SATO_SILENCED_BY_METHYLATION_IN_PANCREATIC_CANCER_2, SATO_SILENCED_BY_METHYLATION_IN_PANCREATIC_CANCER_2
                                                                                                               GSE2706_R848_VS_LPS_2H_STIM_DC_DN, GSE2706_R848_VS_LPS_2H_STIM_DC_DN
                                                                                                               MIR12115, MIR12115
                                                                                                               LIU_SMARCA4_TARGETS, LIU_SMARCA4_TARGETS
                                                                                                                GILDEA METASTASIS, GILDEA METASTASIS
                                                                                                               GOBP_MDA_5_SIGNALING_PATHWAY, GOBP_MDA_5_SIGNALING_PATHWAY
                                                                                                               GOBP_POSTSYNAPTIC_NEUROTRANSMITTER_RECEPTOR_INTERNALIZATION, GOBP_POSTSYNAPTIC_NEUROTRANSMITTER_RECEPTOR_INTERNALIZATION
                                                                                                               KRAS.300_UP.V1_DN, KRAS.300_UP.V1_DN
                                                                                                               HP_CSF_PLEOCYTOSIS, HP_CSF_PLEOCYTOSIS
                                                                                                                REACTOME_TRAF6_MEDIATED_IRF7_ACTIVATION, REACTOME_TRAF6_MEDIATED_IRF7_ACTIVATION
                                                                                                                REACTOME_REGULATION_OF_IFNA_SIGNALING, REACTOME_REGULATION_OF_IFNA_SIGNALING
                                                                                                                HP_EXTRAPYRAMIDAL_MUSCULAR_RIGIDITY, HP_EXTRAPYRAMIDAL_MUSCULAR_RIGIDITY
                                                                                                                GOBP_DNA_METHYLATION_INVOLVED_IN_GAMETE_GENERATION, GOBP_DNA_METHYLATION_INVOLVED_IN_GAMETE_GENERATION
                                                                                                                GOBP_NEUROTRANSMITTER_RECEPTOR_INTERNALIZATION, GOBP_NEUROTRANSMITTER_RECEPTOR_INTERNALIZATION
                                                                                                                WHITESIDE_CISPLATIN_RESISTANCE_UP, WHITESIDE_CISPLATIN_RESISTANCE_UP
                                                                                                               GOBP_LONG_TERM_SYNAPTIC_DEPRESSION, GOBP_LONG_TERM_SYNAPTIC_DEPRESSION
                                                                                                                GRANDVAUX_IRF3_TARGETS_UP, GRANDVAUX_IRF3_TARGETS_UP
                                                                                                                GOBP_NEURON_FATE_DETERMINATION, GOBP_NEURON_FATE_DETERMINATION
                                                                                                                HP_NEONATAL_ALLOIMMUNE_THROMBOCYTOPENIA, HP_NEONATAL_ALLOIMMUNE_THROMBOCYTOPENIA
                                                                                                                HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_2NM_DN, HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_2NM_DN
                                                                                                               chr10q23, chr10q23
                                                                                                                GOMF_CALCIUM_POTASSIUM_SODIUM_ANTIPORTER_ACTIVITY, GOMF_CALCIUM_POTASSIUM_SODIUM_ANTIPORTER_ACTIVITY
                                                                                                                GOBP_ANDROGEN_CATABOLIC_PROCESS, GOBP_ANDROGEN_CATABOLIC_PROCESS
                                                                                                                GOBP_CIRCADIAN_SLEEP_WAKE_CYCLE_REM_SLEEP, GOBP_CIRCADIAN_SLEEP_WAKE_CYCLE_REM_SLEEP
                                                                                                                GOBP_AXIAL_MESODERM_DEVELOPMENT, GOBP_AXIAL_MESODERM_DEVELOPMENT
                                                                                                                ZHAN_MULTIPLE_MYELOMA_SPIKED, ZHAN_MULTIPLE_MYELOMA_SPIKED
                                                                                                                KRAS.50_UP.V1_DN, KRAS.50_UP.V1_DN
                                                                                                                GOBP_SEX_DETERMINATION, GOBP_SEX_DETERMINATION
                                                                                                                SCHMIDT_POR_TARGETS_IN_LIMB_BUD_DN, SCHMIDT_POR_TARGETS_IN_LIMB_BUD_DN
                                                                                                                GOBP_DIGESTIVE_TRACT_MORPHOGENESIS, GOBP_DIGESTIVE_TRACT_MORPHOGENESIS
                                                                                                                CHIANG_LIVER_CANCER_SUBCLASS_INTERFERON_UP, CHIANG_LIVER_CANCER_SUBCLASS_INTERFERON_UP
                                                                                                                MODULE 113, MODULE 113
                                                                                                                GOMF_MORPHOGEN_ACTIVITY, GOMF_MORPHOGEN_ACTIVITY
                                                                                                                HP_THORACIC_AORTA_CALCIFICATION, HP_THORACIC_AORTA_CALCIFICATION
                                                                                                                GOMF_DOUBLE_STRANDED_RNA_ADENOSINE_DEAMINASE_ACTIVITY, GOMF_DOUBLE_STRANDED_RNA_ADENOSINE_DEAMINASE_ACTIVITY
```

WP_MAMMALIAN_DISORDER_OF_SEXUAL_DEVELOPMENT, WP_MAMMALIAN_DISORDER_OF_SEXUAL_DEVELOPMENT

GSE46606 UNSTIM VS_CD40L_IL2_IL5_3DAY_STIMULATED_IRF4_KO_BCELL_DN, GSE46606_UNSTIM_VS_CD40L_IL2_IL5_3DAY_STIMULATED_IRF4_KO_BCELL_DN