```
GSE28726_ACT_CD4_TCELL_VS_ACT_NKTCELL_UP, GSE28726_ACT_CD4_TCELL_VS_ACT_NKTCELL_UP
                                                                                                                       GSE34006_UNTREATED_VS_A2AR_AGONIST_TREATED_TREG_UP, GSE34006_UNTREATED_VS_A2AR_AGONIST_TREATED_TREG_UP
                                                                                                                       GSE16266_CTRL_VS_HEATSHOCK_AND_LPS_STIM_MEF_UP, GSE16266_CTRL_VS_HEATSHOCK_AND_LPS_STIM_MEF_UP
                                                                                                                       GSE45837_WT_VS_GFI1_KO_PDC_DN, GSE45837_WT_VS_GFI1_KO_PDC_DN
                                                                                                                       GSE9006_HEALTHY_VS_TYPE_1_DIABETES_PBMC_1MONTH_POST_DX_UP, GSE9006_HEALTHY_VS_TYPE_1_DIABETES_PBMC_1MONTH_POST_DX_UP
                                                                                                                       GSE5099_UNSTIM_VS_MCSF_TREATED_MONOCYTE_DAY7_UP, GSE5099_UNSTIM_VS_MCSF_TREATED_MONOCYTE_DAY7_UP
                                                                                                                        GSE9006_HEALTHY_VS_TYPE_2_DIABETES_PBMC_AT_DX_UP, GSE9006_HEALTHY_VS_TYPE_2_DIABETES_PBMC_AT_DX_UP
                                                                                                                       GSE21670_UNTREATED_VS_TGFB_IL6_TREATED_STAT3_KO_CD4_TCELL_DN, GSE21670_UNTREATED_VS_TGFB_IL6_TREATED_STAT3_KO_CD4_TCELL_DN
                                                                                                                       GSE22886 CTRL VS LPS 24H DC UP, GSE22886 CTRL VS LPS 24H DC UP
                                                                                                                       GSE1925 CTRL VS IFNG PRIMED MACROPHAGE 3H IFNG STIM UP, GSE1925 CTRL VS IFNG PRIMED MACROPHAGE 3H IFNG STIM UP
                                                                                                                       GSE41978_ID2_KO_VS_ID2_KO_AND_BIM_KO_KLRG1_LOW_EFFECTOR_CD8_TCELL_DN, GSE41978_ID2_KO_VS_ID2_KO_AND_BIM_KO_KLRG1_LOW_EFFECTOR_CD8_TCELL_DN
                                                                                                                       GSE12845 NAIVE VS PRE GC_TONSIL_BCELL_DN, GSE12845_NAIVE_VS_PRE_GC_TONSIL_BCELL_DN
                                                                                                                       GSE40274_IRF4_VS_FOXP3_AND_IRF4_TRANSDUCED_ACTIVATED_CD4_TCELL_UP, GSE40274_IRF4_VS_FOXP3_AND_IRF4_TRANSDUCED_ACTIVATED_CD4_TCELL_UP
                                                                                                                       GSE36392_EOSINOPHIL_VS_NEUTROPHIL_IL25_TREATED_LUNG_DN, GSE36392_EOSINOPHIL_VS_NEUTROPHIL_IL25_TREATED_LUNG_DN
                                                                                                                       GSE17721_CTRL_VS_CPG_12H_BMDC_UP, GSE17721_CTRL_VS_CPG_12H_BMDC_UP
                                                                                                                       GSE42724_NAIVE_VS_B1_BCELL_DN, GSE42724_NAIVE_VS_B1_BCELL_DN
                                                                                                                       GSE26351_UNSTIM_VS_BMP_PATHWAY_STIM_HEMATOPOIETIC_PROGENITORS_UP, GSE26351_UNSTIM_VS_BMP_PATHWAY_STIM_HEMATOPOIETIC_PROGENITORS_UP
                                                                                                                       GSE29617_CTRL_VS_DAY3_TIV_FLU_VACCINE_PBMC_2008_DN, GSE29617_CTRL_VS_DAY3_TIV_FLU_VACCINE_PBMC_2008_DN
                                                                                                                       GSE3982 EOSINOPHIL VS BCELL DN, GSE3982 EOSINOPHIL VS BCELL DN
                                                                                                                       GSE42088_UNINF_VS_LEISHMANIA_INF_DC_2H_DN, GSE42088_UNINF_VS_LEISHMANIA_INF_DC_2H_DN
                                                                                                                       GSE17721_CTRL_VS_LPS_4H_BMDC_UP, GSE17721_CTRL_VS_LPS_4H_BMDC_UP
                                                                                                                       GSE5099 DAY3 VS DAY7 MCSF TREATED MACROPHAGE UP, GSE5099 DAY3 VS DAY7 MCSF TREATED MACROPHAGE UP
                                                                                                                       GSE35685_CD34POS_CD38NEG_VS_CD34POS_CD10NEG_CD62LPOS_BONE_MARROW_UP, GSE35685_CD34POS_CD38NEG_VS_CD34POS_CD10NEG_CD62LPOS_BONE_MARROW_UP
                                                                                                                       GSE34156_NOD2_LIGAND_VS_NOD2_AND_TLR1_TLR2_LIGAND_24H_TREATED_MONOCYTE_DN, GSE34156_NOD2_LIGAND_VS_NOD2_AND_TLR1_TLR2_LIGAND_24H_TREATED_MONOCYTE_DN
                                                                                                                       GSE2770_IL12_ACT_VS_ACT_CD4_TCELL_6H_UP, GSE2770_IL12_ACT_VS_ACT_CD4_TCELL_6H_UP
                                                                                                                       GSE21927_SPLEEN_C57BL6_VS_4T1_TUMOR_BALBC_MONOCYTES_UP, GSE21927_SPLEEN_C57BL6_VS_4T1_TUMOR_BALBC_MONOCYTES_UP
                                                                                                                       GSE13411_PLASMA_CELL_VS_MEMORY_BCELL_DN, GSE13411_PLASMA_CELL_VS_MEMORY_BCELL_DN
                                                                                                                       GSE34156 NOD2 LIGAND VS TLR1 TLR2 LIGAND 24H TREATED MONOCYTE DN, GSE34156 NOD2 LIGAND VS TLR1 TLR2 LIGAND 24H TREATED MONOCYTE DN
                                                                                                                       GSE29617_CTRL_VS_TIV_FLU_VACCINE_PBMC_2008_DN, GSE29617_CTRL_VS_TIV_FLU_VACCINE_PBMC_2008_DN
                                                                                                                       GSE45365_HEALTHY_VS_MCMV_INFECTION_CD8A_DC_IFNAR_KO_UP, GSE45365_HEALTHY_VS_MCMV_INFECTION_CD8A_DC_IFNAR_KO_UP
                                                                                                                       GSE9960_GRAM_POS_VS_GRAM_NEG_AND_POS_SEPSIS_PBMC_UP, GSE9960_GRAM_POS_VS_GRAM_NEG_AND_POS_SEPSIS_PBMC_UP
                                                                                                                       GSE34205_HEALTHY_VS_FLU_INF_INFANT_PBMC_UP, GSE34205_HEALTHY_VS_FLU_INF_INFANT_PBMC_UP
                                                                                                                       GSE3982_EOSINOPHIL_VS_CENT_MEMORY_CD4_TCELL_DN, GSE3982_EOSINOPHIL_VS_CENT_MEMORY_CD4_TCELL_DN
                                                                                                                       GSE22886_IGM_MEMORY_BCELL_VS_BM_PLASMA_CELL_UP, GSE22886_IGM_MEMORY_BCELL_VS_BM_PLASMA_CELL_UP
                                                                                                                       GSE5099_MONOCYTE_VS_CLASSICAL_M1_MACROPHAGE_DN, GSE5099_MONOCYTE_VS_CLASSICAL_M1_MACROPHAGE_DN
                                                                                                                       GSE43260_BTLA_POS_VS_NEG_INTRATUMORAL_CD8_TCELL_DN, GSE43260_BTLA_POS_VS_NEG_INTRATUMORAL_CD8_TCELL_DN
                                                                                                                       GSE3720_UNSTIM_VS_PMA_STIM_VD1_GAMMADELTA_TCELL_UP, GSE3720_UNSTIM_VS_PMA_STIM_VD1_GAMMADELTA_TCELL_UP
                                                                                                                       GOLDRATH_NAIVE_VS_MEMORY_CD8_TCELL_UP, GOLDRATH_NAIVE_VS_MEMORY_CD8_TCELL_UP
                                                                                                                       GSE17721_LPS_VS_PAM3CSK4_6H_BMDC_DN, GSE17721_LPS_VS_PAM3CSK4_6H_BMDC_DN
                                                                                                                       GSE29618 LAIV VS TIV FLU VACCINE DAY7 BCELL DN, GSE29618 LAIV VS TIV FLU VACCINE DAY7 BCELL DN
                                                                                                                       GSE26030_UNSTIM_VS_RESTIM_TH17_DAY15_POST_POLARIZATION_DN, GSE26030_UNSTIM_VS_RESTIM_TH17_DAY15_POST_POLARIZATION_DN
                                                                                                                       GSE16266_CTRL_VS_HEATSHOCK_AND_LPS_STIM_MEF_DN, GSE16266_CTRL_VS_HEATSHOCK_AND_LPS_STIM_MEF_DN
                                                                                                                       GSE17721_0.5H_VS_4H_LPS_BMDC_UP, GSE17721_0.5H_VS_4H_LPS_BMDC_UP
                                                                                                                       GSE15930 STIM VS STIM AND IFNAB 48H CD8 T CELL UP, GSE15930 STIM VS STIM AND IFNAB 48H CD8 T CELL UP
                                                                                                                       GSE17721_LPS_VS_POLYIC_4H_BMDC_DN, GSE17721_LPS_VS_POLYIC_4H_BMDC_DN
                                                                                                                       GSE43955_1H_VS_60H_ACT_CD4_TCELL_WITH_TGFB_IL6_UP, GSE43955_1H_VS_60H_ACT_CD4_TCELL_WITH_TGFB_IL6_UP
                                                                                                                       GSE22886_IL2_VS_IL15_STIM_NKCELL_DN, GSE22886_IL2_VS_IL15_STIM_NKCELL_DN
                                                                                                                       GSE14000 TRANSLATED RNA VS MRNA 16H LPS DC DN, GSE14000 TRANSLATED RNA VS MRNA 16H LPS DC DN
                                                                                                                       GSE28726_ACT_CD4_TCELL_VS_ACT_NKTCELL_DN, GSE28726_ACT_CD4_TCELL_VS_ACT_NKTCELL_DN
                                                                                                                       GSE17721 0.5H VS 24H GARDIQUIMOD BMDC UP, GSE17721 0.5H VS 24H GARDIQUIMOD BMDC UP
                                                                                                                       GSE27786 NKCELL VS NKTCELL UP, GSE27786 NKCELL VS NKTCELL UP
                                                                                                                       GSE28726_ACT_CD4_TCELL_VS_ACT_VA24NEG_NKTCELL_DN, GSE28726_ACT_CD4_TCELL_VS_ACT_VA24NEG_NKTCELL_DN
                                                                                                                       GSE12366_PLASMA_CELL_VS_NAIVE_BCELL_DN, GSE12366_PLASMA_CELL_VS_NAIVE_BCELL_DN
                                                                                                                       GSE17721_LPS_VS_PAM3CSK4_16H_BMDC_DN, GSE17721_LPS_VS_PAM3CSK4_16H_BMDC_DN
                                                                                                                       GSE3982_EOSINOPHIL_VS_BASOPHIL_DN, GSE3982_EOSINOPHIL_VS_BASOPHIL_DN
                                                                                                                       GAUCHER PBMC_YF_VAX_STAMARIL_UNKNOWN_AGE_7DY_DN, GAUCHER_PBMC_YF_VAX_STAMARIL_UNKNOWN_AGE_7DY_DN
                                                                                                                       GSE22886_IGG_IGA_MEMORY_BCELL_VS_BM_PLASMA_CELL_UP, GSE22886_IGG_IGA_MEMORY_BCELL_VS_BM_PLASMA_CELL_UP
                                                                                                                       GSE17721_0.5H_VS_8H_LPS_BMDC_UP, GSE17721_0.5H_VS_8H_LPS_BMDC_UP
                                                                                                                       GSE17721_LPS_VS_PAM3CSK4_12H_BMDC_DN, GSE17721_LPS_VS_PAM3CSK4_12H_BMDC_DN
                                                                                                                       GSE3982_CTRL_VS_IGE_STIM_MAST_CELL_UP, GSE3982_CTRL_VS_IGE_STIM_MAST_CELL_UP
                                                                                                                       GSE24574_BCL6_HIGH_TFH_VS_TFH_CD4_TCELL_DN, GSE24574_BCL6_HIGH_TFH_VS_TFH_CD4_TCELL_DN
                                                                                                                       GSE360_CTRL_VS_M_TUBERCULOSIS_DC_UP, GSE360_CTRL_VS_M_TUBERCULOSIS_DC_UP
                                                                                                                       GSE5099_CLASSICAL_M1_VS_ALTERNATIVE_M2_MACROPHAGE_UP, GSE5099_CLASSICAL_M1_VS_ALTERNATIVE_M2_MACROPHAGE_UP
                                                                                                                       GSE32164 RESTING DIFFERENTIATED VS CMYC INHIBITED MACROPHAGE DN, GSE32164 RESTING DIFFERENTIATED VS CMYC INHIBITED MACROPHAGE DN
                                                                                                                       GSE17721_CTRL_VS_LPS_12H_BMDC_UP, GSE17721_CTRL_VS_LPS_12H_BMDC_UP
                                                                                                                       GOLDRATH_EFF_VS_MEMORY_CD8_TCELL_DN, GOLDRATH_EFF_VS_MEMORY_CD8_TCELL_DN
                                                                                                                       GSE42088_UNINF_VS_LEISHMANIA_INF_DC_4H_DN, GSE42088_UNINF_VS_LEISHMANIA_INF_DC_4H_DN
                                                                                                                       GSE2770 TGFB AND IL4 ACT VS ACT CD4 TCELL 2H UP, GSE2770 TGFB AND IL4 ACT VS ACT CD4 TCELL 2H UP
                                                                                                                       GSE360_CTRL_VS_M_TUBERCULOSIS_MAC_UP, GSE360_CTRL_VS_M_TUBERCULOSIS_MAC_UP
                                                                                                                       GSE27786 LSK VS BCELL DN, GSE27786 LSK VS BCELL DN
                                                                                                                       GSE10239_NAIVE_VS_DAY4.5_EFF_CD8_TCELL_UP, GSE10239_NAIVE_VS_DAY4.5_EFF_CD8_TCELL_UP
                                                                                                                       GSE36888_UNTREATED_VS_IL2_TREATED_STAT5_AB_KNOCKIN_TCELL_2H_DN, GSE36888_UNTREATED_VS_IL2_TREATED_STAT5_AB_KNOCKIN_TCELL_2H_DN
                                                                                                                       GSE20727 H2O2 VS ROS INHIBITOR TREATED DC DN, GSE20727 H2O2 VS ROS INHIBITOR TREATED DC DN
                                                                                                                       GSE15930_STIM_VS_STIM_AND_IL12_48H_CD8_T_CELL_UP, GSE15930_STIM_VS_STIM_AND_IL12_48H_CD8_T_CELL_UP
                                                                                                                       GSE23568_ID3_TRANSDUCED_VS_ID3_KO_CD8_TCELL_DN, GSE23568_ID3_TRANSDUCED_VS_ID3_KO_CD8_TCELL_DN
                                                                                                                       GSE23321_CENTRAL_VS_EFFECTOR_MEMORY_CD8_TCELL_DN, GSE23321_CENTRAL_VS_EFFECTOR_MEMORY_CD8_TCELL_DN
                                                                                                                       GSE6269_HEALTHY_VS_FLU_INF_PBMC_UP, GSE6269_HEALTHY_VS_FLU_INF_PBMC_UP
                                                                                                                       GSE17721 LPS VS GARDIQUIMOD 16H BMDC DN, GSE17721 LPS VS GARDIQUIMOD 16H BMDC DN
                                                                                                                       GSE9960_HEALTHY_VS_GRAM_POS_SEPSIS_PBMC_UP, GSE9960_HEALTHY_VS_GRAM_POS_SEPSIS_PBMC_UP
                                                                                                                       GSE17721_CTRL_VS_PAM3CSK4_24H_BMDC_UP, GSE17721_CTRL_VS_PAM3CSK4_24H_BMDC_UP
                                                                                                                       GSE3720 UNSTIM VS LPS STIM VD2 GAMMADELTA TCELL UP, GSE3720 UNSTIM VS LPS STIM VD2 GAMMADELTA TCELL UP
                                                                                                                       GSE360_DC_VS_MAC_B_MALAYI_LOW_DOSE_UP, GSE360_DC_VS_MAC_B_MALAYI_LOW_DOSE_UP
                                                                                                                       GSE25123 ROSIGLITAZONE VS IL4 AND ROSIGLITAZONE STIM MACROPHAGE DAY10 UP, GSE25123 ROSIGLITAZONE VS IL4 AND ROSIGLITAZONE STIM MACROPHAGE DAY10 UP
                                                                                                                       GSE34156_NOD2_LIGAND_VS_NOD2_AND_TLR1_TLR2_LIGAND_6H_TREATED_MONOCYTE_UP, GSE34156_NOD2_LIGAND_VS_NOD2_AND_TLR1_TLR2_LIGAND_6H_TREATED_MONOCYTE_UP
                                                                                                                       GSE22886_NAIVE_BCELL_VS_BM_PLASMA_CELL_UP, GSE22886_NAIVE_BCELL_VS_BM_PLASMA_CELL_UP
                                                                                                                       GSE411_UNSTIM_VS_100MIN_IL6_STIM_MACROPHAGE_UP, GSE411_UNSTIM_VS_100MIN_IL6_STIM_MACROPHAGE_UP
                                                                                                                       GSE360_L_DONOVANI_VS_B_MALAYI_LOW_DOSE_MAC_UP, GSE360_L_DONOVANI_VS_B_MALAYI_LOW_DOSE_MAC_UP
                                                                                                                       GSE15930_STIM_VS_STIM_AND_TRICHOSTATINA_48H_CD8_T_CELL_UP, GSE15930_STIM_VS_STIM_AND_TRICHOSTATINA_48H_CD8_T_CELL_UP
                                                                                                                        GSE23568_ID3_TRANSDUCED_VS_ID3_KO_CD8_TCELL_UP, GSE23568_ID3_TRANSDUCED_VS_ID3_KO_CD8_TCELL_UP
                                                                                                                       GSE25088_CTRL_VS_IL4_AND_ROSIGLITAZONE_STIM_STAT6_KO_MACROPHAGE_UP, GSE25088_CTRL_VS_IL4_AND_ROSIGLITAZONE_STIM_STAT6_KO_MACROPHAGE_UP
                                                                                                                       GSE22886 NAIVE TCELL VS DC UP, GSE22886 NAIVE TCELL VS DC UP
                                                                                                                       GSE24026 PD1 LIGATION VS CTRL IN ACT TCELL LINE UP, GSE24026 PD1 LIGATION VS CTRL IN ACT TCELL LINE UP
                                                                                                                       GSE37301_HEMATOPOIETIC_STEM_CELL_VS_PRO_BCELL_DN, GSE37301_HEMATOPOIETIC_STEM_CELL_VS_PRO_BCELL_DN
                                                                                                                       GSE27786_LSK_VS_CD8_TCELL_DN, GSE27786_LSK_VS_CD8_TCELL_DN
                                                                                                                       GSE46606_IRF4HIGH_VS_WT_CD40L_IL2_IL5_DAY3_STIMULATED_BCELL_UP, GSE46606_IRF4HIGH_VS_WT_CD40L_IL2_IL5_DAY3_STIMULATED_BCELL_UP
                                                                                                                       GSE10325 LUPUS BCELL VS LUPUS MYELOID UP, GSE10325 LUPUS BCELL VS LUPUS MYELOID UP
                                                                                                                       GSE24142 EARLY THYMIC PROGENITOR VS DN3 THYMOCYTE DN, GSE24142 EARLY THYMIC PROGENITOR VS DN3 THYMOCYTE DN
                                                                                                                       GSE16385_IL4_VS_ROSIGLITAZONE_STIM_MACROPHAGE_UP, GSE16385_IL4_VS_ROSIGLITAZONE_STIM_MACROPHAGE_UP
                                                                                                                       GSE41176_WT_VS_TAK1_KO_ANTI_IGM_STIM_BCELL_24H_DN, GSE41176_WT_VS_TAK1_KO_ANTI_IGM_STIM_BCELL_24H_DN
                                                                                                                       GSE369 PRE VS POST IL6 INJECTION SOCS3 KO LIVER UP, GSE369 PRE VS POST IL6 INJECTION SOCS3 KO LIVER UP
                                                                                                                       GSE14000_TRANSLATED_RNA_VS_MRNA_4H_LPS_DC_DN, GSE14000_TRANSLATED_RNA_VS_MRNA_4H_LPS_DC_DN
                                                                                                                       GSE5589_UNSTIM_VS_45MIN_LPS_STIM_MACROPHAGE_UP, GSE5589_UNSTIM_VS_45MIN_LPS_STIM_MACROPHAGE_UP
                                                                                                                       GSE3982_EOSINOPHIL_VS_NKCELL_DN, GSE3982_EOSINOPHIL_VS_NKCELL_DN
                                                                                                                       GSE13484 12H VS 3H_YF17D_VACCINE_STIM_PBMC_DN, GSE13484_12H_VS_3H_YF17D_VACCINE_STIM_PBMC_DN
                                                                                                                       GSE3565_DUSP1_VS_WT_SPLENOCYTES_POST_LPS_INJECTION_UP, GSE3565_DUSP1_VS_WT_SPLENOCYTES_POST_LPS_INJECTION_UP
                                                                                                                       GSE17721_PAM3CSK4_VS_GADIQUIMOD_12H_BMDC_UP, GSE17721_PAM3CSK4_VS_GADIQUIMOD_12H_BMDC_UP
                                                                                                                       GSE339_CD8POS_VS_CD4CD8DN_DC_IN_CULTURE_UP, GSE339_CD8POS_VS_CD4CD8DN_DC_IN_CULTURE_UP
                                                                                                                       GSE36392_TYPE_2_MYELOID_VS_EOSINOPHIL_IL25_TREATED_LUNG_UP, GSE36392_TYPE_2_MYELOID_VS_EOSINOPHIL_IL25_TREATED_LUNG_UP
                                                                                                                       GSE17721 LPS VS PAM3CSK4 24H BMDC DN, GSE17721 LPS VS PAM3CSK4 24H BMDC DN
                                                                                                                       GSE24574_BCL6_HIGH_VS_LOW_TFH_CD4_TCELL_UP, GSE24574_BCL6_HIGH_VS_LOW_TFH_CD4_TCELL_UP
                                                                                                                       GSE17186 NAIVE_VS_CD21LOW_TRANSITIONAL_BCELL_DN, GSE17186_NAIVE_VS_CD21LOW_TRANSITIONAL_BCELL_DN
                                                                                                                       GSE32034 LY6C HIGH VS LOW ROSIGLIZATONE TREATED MONOCYTE UP, GSE32034 LY6C HIGH VS LOW ROSIGLIZATONE TREATED MONOCYTE UP
                                                                                                                       GSE2770_IL12_VS_TGFB_AND_IL12_TREATED_ACT_CD4_TCELL_6H_DN, GSE2770_IL12_VS_TGFB_AND_IL12_TREATED_ACT_CD4_TCELL_6H_DN
                                                                                                                       GSE22886_NAIVE_BCELL_VS_NEUTROPHIL_UP, GSE22886_NAIVE_BCELL_VS_NEUTROPHIL_UP
                                                                                                                       GSE22886_DAY0_VS_DAY7_MONOCYTE_IN_CULTURE_DN, GSE22886_DAY0_VS_DAY7_MONOCYTE_IN_CULTURE_DN
                                                                                                                       GSE17721_0.5H_VS_12H_LPS_BMDC_UP, GSE17721_0.5H_VS_12H_LPS_BMDC_UP
                                                                                                                       GSE37301_GRANULOCYTE_MONOCYTE_PROGENITOR_VS_RAG2_KO_NK_CELL_DN, GSE37301_GRANULOCYTE_MONOCYTE_PROGENITOR_VS_RAG2_KO_NK_CELL_DN
                                                                                                                       GSE13547_CTRL_VS_ANTI_IGM_STIM_BCELL_12H_DN, GSE13547_CTRL_VS_ANTI_IGM_STIM_BCELL_12H_DN
                                                                                                                       KAECH_DAY15_EFF_VS_MEMORY_CD8_TCELL_DN, KAECH_DAY15_EFF_VS_MEMORY_CD8_TCELL_DN
                                                                                                                       GSE9006_HEALTHY_VS_TYPE_1_DIABETES_PBMC_AT_DX_UP, GSE9006_HEALTHY_VS_TYPE_1_DIABETES_PBMC_AT_DX_UP
                                                                                                                       GSE41978_KLRG1_HIGH_VS_LOW_EFFECTOR_CD8_TCELL_DN, GSE41978_KLRG1_HIGH_VS_LOW_EFFECTOR_CD8_TCELL_DN
                                                                                                                       GSE10239_NAIVE_VS_KLRG1INT_EFF_CD8_TCELL_UP, GSE10239_NAIVE_VS_KLRG1INT_EFF_CD8_TCELL_UP
                                                                                                                       GSE43955_1H_VS_10H_ACT_CD4_TCELL_UP, GSE43955_1H_VS_10H_ACT_CD4_TCELL_UP
                                                                                                                       GSE26488_CTRL_VS_PEPTIDE_INJECTION_HDAC7_DELTAP_TG_OT2_THYMOCYTE_DN, GSE26488_CTRL_VS_PEPTIDE_INJECTION_HDAC7_DELTAP_TG_OT2_THYMOCYTE_DN
                                                                                                                       GSE24634_NAIVE_CD4_TCELL_VS_DAY5_IL4_CONV_TREG_UP, GSE24634_NAIVE_CD4_TCELL_VS_DAY5_IL4_CONV_TREG_UP
                                                                                                                       KAECH_NAIVE_VS_DAY8_EFF_CD8_TCELL_UP, KAECH_NAIVE_VS_DAY8_EFF_CD8_TCELL_UP
                                                                                                                       GSE26156_DOUBLE_POSITIVE_VS_CD4_SINGLE_POSITIVE_THYMOCYTE_UP, GSE26156_DOUBLE_POSITIVE_VS_CD4_SINGLE_POSITIVE_THYMOCYTE_UP
                                                                                                                       GSE14000_TRANSLATED_RNA_VS_MRNA_DC_DN, GSE14000_TRANSLATED_RNA_VS_MRNA_DC_DN
                                                                                                                       GSE22886_NAIVE_CD4_TCELL_VS_DC_UP, GSE22886_NAIVE_CD4_TCELL_VS_DC_UP
                                                                                                                       GSE34156_UNTREATED_VS_24H_TLR1_TLR2_LIGAND_TREATED_MONOCYTE_DN, GSE34156_UNTREATED_VS_24H_TLR1_TLR2_LIGAND_TREATED_MONOCYTE_DN
                                                                                                                       GSE25123_CTRL_VS_IL4_STIM_MACROPHAGE_DN, GSE25123_CTRL_VS_IL4_STIM_MACROPHAGE_DN
                                                                                                                       GSE3720_LPS_VS_PMA_STIM_VD1_GAMMADELTA_TCELL_DN, GSE3720_LPS_VS_PMA_STIM_VD1_GAMMADELTA_TCELL_DN
                                                                                                                       GSE1925_CTRL_VS_3H_IFNG_STIM_IFNG_PRIMED_MACROPHAGE_UP, GSE1925_CTRL_VS_3H_IFNG_STIM_IFNG_PRIMED_MACROPHAGE_UP
                                                                                                                       GSE3565_DUSP1_VS_WT_SPLENOCYTES_DN, GSE3565_DUSP1_VS_WT_SPLENOCYTES_DN
                                                                                                                       GSE36078_WT_VS_IL1R_KO_LUNG_DC_AFTER_AD5_T425A_HEXON_INF_DN, GSE36078_WT_VS_IL1R_KO_LUNG_DC_AFTER_AD5_T425A_HEXON_INF_DN
                                                                                                                        GSE9650_NAIVE_VS_EFF_CD8_TCELL_UP, GSE9650_NAIVE_VS_EFF_CD8_TCELL_UP
                                                                                                                       GSE40685_NAIVE_CD4_TCELL_VS_TREG_UP, GSE40685_NAIVE_CD4_TCELL_VS_TREG_UP
                                                                                                                        GSE34006_UNTREATED_VS_A2AR_AGONIST_TREATED_TREG_DN, GSE34006_UNTREATED_VS_A2AR_AGONIST_TREATED_TREG_DN
                                                                                                                        GSE11864_UNTREATED_VS_CSF1_IFNG_IN_MAC_UP, GSE11864_UNTREATED_VS_CSF1_IFNG_IN_MAC_UP
                                                                                                                        GSE9316_CD4_TCELL_BALBC_VS_TH17_ENRI_CD4_TCELL_SKG_PMA_IONO_STIM_FR4NEG_DN, GSE9316_CD4_TCELL_BALBC_VS_TH17_ENRI_CD4_TCELL_SKG_PMA_IONO_STIM_FR4NEG_DN
                                                                                                                        GSE15930_STIM_VS_STIM_AND_IL12_24H_CD8_T_CELL_UP, GSE15930_STIM_VS_STIM_AND_IL12_24H_CD8_T_CELL_UP
                                                                                                                        GSE17721_LPS_VS_GARDIQUIMOD_24H_BMDC_DN, GSE17721_LPS_VS_GARDIQUIMOD_24H_BMDC_DN
                                                                                                                        GSE40068_BCL6_POS_VS_NEG_CXCR5_POS_TFH_DN, GSE40068_BCL6_POS_VS_NEG_CXCR5_POS_TFH_DN
                                                                                                                        GSE29618 MONOCYTE VS MDC DN, GSE29618 MONOCYTE VS MDC DN
                                                                                                                        GSE3982_EOSINOPHIL_VS_EFF_MEMORY_CD4_TCELL_DN, GSE3982_EOSINOPHIL_VS_EFF_MEMORY_CD4_TCELL_DN
                                                                                                                        GSE3039_CD4_TCELL_VS_ALPHAALPHA_CD8_TCELL_DN, GSE3039_CD4_TCELL_VS_ALPHAALPHA_CD8_TCELL_DN
                                                                                                                        GSE46606_IRF4_KO_VS_WT_UNSTIM_BCELL_UP, GSE46606_IRF4_KO_VS_WT_UNSTIM_BCELL_UP
                                                                                                                        GSE17186_NAIVE_VS_CD21HIGH_TRANSITIONAL_BCELL_CORD_BLOOD_DN, GSE17186_NAIVE_VS_CD21HIGH_TRANSITIONAL_BCELL_CORD_BLOOD_DN
                                                                                                                       GSE42724_NAIVE_VS_MEMORY_BCELL_DN, GSE42724_NAIVE_VS_MEMORY_BCELL_DN
                                                                                                                        GSE27786_CD8_TCELL_VS_NKTCELL_UP, GSE27786_CD8_TCELL_VS_NKTCELL_UP
                                                                                                                        GSE339_EX_VIVO_VS_IN_CULTURE_CD4POS_DC_DN, GSE339_EX_VIVO_VS_IN_CULTURE_CD4POS_DC_DN
                                                                                                                       GSE37416_12H_VS_48H_F_TULARENSIS_LVS_NEUTROPHIL_DN, GSE37416_12H_VS_48H_F_TULARENSIS_LVS_NEUTROPHIL_DN
                                                                                                                       GSE39110_DAY3_VS_DAY6_POST_IMMUNIZATION_CD8_TCELL_UP, GSE39110_DAY3_VS_DAY6_POST_IMMUNIZATION_CD8_TCELL_UP
CYTOPHILUM_STIM_NEUTROPHIL_DN, GSE2405_0H_VS_9H_A_PHAGOCYTOPHILUM_STIM_NEUTROPHIL_DN
                                                                                                                       GSE10239 NAIVE VS KLRG1HIGH EFF CD8 TCELL UP, GSE10239 NAIVE VS KLRG1HIGH EFF CD8 TCELL UP
                                                                                                                        GSE11864_UNTREATED_VS_CSF1_IN_MAC_UP, GSE11864_UNTREATED_VS_CSF1_IN_MAC_UP
                                                                                                                        GSE26030_TH1_VS_TH17_RESTIMULATED_DAY5_POST_POLARIZATION_UP, GSE26030_TH1_VS_TH17_RESTIMULATED_DAY5_POST_POLARIZATION_UP
                                                                                                                        GSE32986_GMCSF_VS_GMCSF_AND_CURDLAN_LOWDOSE_STIM_DC_DN, GSE32986_GMCSF_VS_GMCSF_AND_CURDLAN_LOWDOSE_STIM_DC_DN
                                                                                                                       GSE34515_CD16_NEG_VS_POS_MONOCYTE_DN, GSE34515_CD16_NEG_VS_POS_MONOCYTE_DN
                                                                                                                        GSE17721_LPS_VS_POLYIC_12H_BMDC_DN, GSE17721_LPS_VS_POLYIC_12H_BMDC_DN
                                                                                                                        GSE17721_CTRL_VS_LPS_2H_BMDC_UP, GSE17721_CTRL_VS_LPS_2H_BMDC_UP
                                                                                                                        GSE43955_1H_VS_42H_ACT_CD4_TCELL_WITH_TGFB_IL6_UP, GSE43955_1H_VS_42H_ACT_CD4_TCELL_WITH_TGFB_IL6_UP
                                                                                                                        GSE21033_CTRL_VS_POLYIC_STIM_DC_12H_UP, GSE21033_CTRL_VS_POLYIC_STIM_DC_12H_UP
                                                                                                                        GSE16385 MONOCYTE VS 12H ROSIGLITAZONE IL4 TREATED MACROPHAGE UP, GSE16385 MONOCYTE VS 12H ROSIGLITAZONE IL4 TREATED MACROPHAGE UP
                                                                                                                        GAUCHER_PBMC_YF_VAX_STAMARIL_UNKNOWN_AGE_3DY_DN, GAUCHER_PBMC_YF_VAX_STAMARIL_UNKNOWN_AGE_3DY_DN
                                                                                                                        GSE17721_LPS_VS_POLYIC_6H_BMDC_DN, GSE17721_LPS_VS_POLYIC_6H_BMDC_DN
                                                                                                                        GSE29618_MONOCYTE_VS_MDC_DAY7_FLU_VACCINE_DN, GSE29618_MONOCYTE_VS_MDC_DAY7_FLU_VACCINE_DN
                                                                                                                        GSE11057_PBMC_VS_MEM_CD4_TCELL_DN, GSE11057_PBMC_VS_MEM_CD4_TCELL_DN
                                                                                                                        GSE3982_NEUTROPHIL_VS_CENT_MEMORY_CD4_TCELL_DN, GSE3982_NEUTROPHIL_VS_CENT_MEMORY_CD4_TCELL_DN
                                                                                                                        GAUCHER_PBMC_YF_VAX_STAMARIL_UNKNOWN_AGE_10DY_DN, GAUCHER_PBMC_YF_VAX_STAMARIL_UNKNOWN_AGE_10DY_DN
                                                                                                                        GSE3039_CD4_TCELL_VS_B1_BCELL_UP, GSE3039_CD4_TCELL_VS_B1_BCELL_UP
                                                                                                                        GSE17721_0.5H_VS_24H_PAM3CSK4_BMDC_UP, GSE17721_0.5H_VS_24H_PAM3CSK4_BMDC_UP
                                                                                                                        GSE5463_CTRL_VS_DEXAMETHASONE_TREATED_THYMOCYTE_DN, GSE5463_CTRL_VS_DEXAMETHASONE_TREATED_THYMOCYTE_DN
                                                                                                                        GSE339 CD4POS VS CD8POS DC IN CULTURE DN, GSE339 CD4POS VS CD8POS DC IN CULTURE DN
                                                                                                                       GSE14308_TH17_VS_NATURAL_TREG_UP, GSE14308_TH17_VS_NATURAL_TREG_UP
                                                                                                                        GSE28237_FOLLICULAR_VS_LATE_GC_BCELL_DN, GSE28237_FOLLICULAR_VS_LATE_GC_BCELL_DN
                                                                                                                        GSE36826_NORMAL_VS_STAPH_AUREUS_INF_SKIN_UP, GSE36826_NORMAL_VS_STAPH_AUREUS_INF_SKIN_UP
                                                                                                                        GSE13493 CD4INTCD8POS VS CD8POS THYMOCYTE DN, GSE13493 CD4INTCD8POS VS CD8POS THYMOCYTE DN
                                                                                                                        GSE22886_NAIVE_CD8_TCELL_VS_DC_UP, GSE22886_NAIVE_CD8_TCELL_VS_DC_UP
                                                                                                                        GSE360_CTRL_VS_B_MALAYI_HIGH_DOSE_MAC_UP, GSE360_CTRL_VS_B_MALAYI_HIGH_DOSE_MAC_UP
                                                                                                                       GSE15330_WT_VS_IKAROS_KO_MEGAKARYOCYTE_ERYTHROID_PROGENITOR_DN, GSE15330_WT_VS_IKAROS_KO_MEGAKARYOCYTE_ERYTHROID_PROGENITOR_DN
                                                                                                                       KAECH_DAY8_EFF_VS_MEMORY_CD8_TCELL_DN, KAECH_DAY8_EFF_VS_MEMORY_CD8_TCELL_DN
                                                                                                                       GSE14413 UNSTIM VS IFNB STIM NIH3T3 CELLS UP, GSE14413 UNSTIM VS IFNB STIM NIH3T3 CELLS UP
                                                                                                                       GSE3920_IFNB_VS_IFNG_TREATED_ENDOTHELIAL_CELL_UP, GSE3920_IFNB_VS_IFNG_TREATED_ENDOTHELIAL_CELL_UP
                                                                                                                       GSE17721_LPS_VS_CPG_0.5H_BMDC_UP, GSE17721_LPS_VS_CPG_0.5H_BMDC_UP
                                                                                                                       GSE3982_MAC_VS_BCELL_DN, GSE3982_MAC_VS_BCELL_DN
                                                                                                                       GSE21360_NAIVE_VS_TERTIARY_MEMORY_CD8_TCELL_UP, GSE21360_NAIVE_VS_TERTIARY_MEMORY_CD8_TCELL_UP
                                                                                                                       GSE34205 HEALTHY VS RSV INF INFANT PBMC UP, GSE34205 HEALTHY VS RSV INF INFANT PBMC UP
                                                                                                                       QI_PBMC_ZOSTAVAX_AGE_50_75YO_CORRELATED_WITH_EXPANSION_OF_VZV_SPECIFIC_T_CELLS_TO_PEAK_AT_1DY_NEGATIVE, QI_PBMC_ZOSTAVAX_AGE_50_75YO_CORRELATED_WITH_EXPANSION_OF_VZV_SPECIFIC_T_CELLS_TO_PEAK_AT_1DY_NEGATIVE
                                                                                                                       GSE32034 UNTREATED VS ROSIGLIZATONE TREATED LY6C HIGH MONOCYTE DN, GSE32034 UNTREATED VS ROSIGLIZATONE TREATED LY6C HIGH MONOCYTE DN
                                                                                                                       GSE1460_NAIVE_CD4_TCELL_ADULT_BLOOD_VS_THYMIC_STROMAL_CELL_UP, GSE1460_NAIVE_CD4_TCELL_ADULT_BLOOD_VS_THYMIC_STROMAL_CELL_UP
                                                                                                                       GSE33513_TCF7_KO_VS_HET_EARLY_THYMIC_PROGENITOR_DN, GSE33513_TCF7_KO_VS_HET_EARLY_THYMIC_PROGENITOR_DN
                                                                                                                       GSE14415 INDUCED TREG VS FOXP3 KO INDUCED TREG UP, GSE14415 INDUCED TREG VS FOXP3 KO INDUCED TREG UP
                                                                                                                       GSE15930_STIM_VS_STIM_AND_IL12_72H_CD8_T_CELL_UP, GSE15930_STIM_VS_STIM_AND_IL12_72H_CD8_T_CELL_UP
                                                                                                                       GSE3720_VD1_VS_VD2_GAMMADELTA_TCELL_DN, GSE3720_VD1_VS_VD2_GAMMADELTA_TCELL_DN
                                                                                                                       GSE17721_LPS_VS_CPG_24H_BMDC_DN, GSE17721_LPS_VS_CPG_24H_BMDC_DN
                                                                                                                       GSE19401_UNSTIM_VS_RETINOIC_ACID_STIM_FOLLICULAR_DC_DN, GSE19401_UNSTIM_VS_RETINOIC_ACID_STIM_FOLLICULAR_DC_DN
                                                                                                                       GSE29164_CD8_TCELL_VS_CD8_TCELL_AND_IL12_TREATED_MELANOMA_DAY3_DN, GSE29164_CD8_TCELL_VS_CD8_TCELL_AND_IL12_TREATED_MELANOMA_DAY3_DN
                                                                                                                       GSE2585_CTEC_VS_MTEC_THYMUS_UP, GSE2585_CTEC_VS_MTEC_THYMUS_UP
                                                                                                                       GSE28237_EARLY_VS_LATE_GC_BCELL_DN, GSE28237_EARLY_VS_LATE_GC_BCELL_DN
                                                                                                                       GSE10325_LUPUS_CD4_TCELL_VS_LUPUS_MYELOID_UP, GSE10325_LUPUS_CD4_TCELL_VS_LUPUS_MYELOID_UP
                                                                                                                       GSE22935_UNSTIM_VS_48H_MBOVIS_BCG_STIM_MACROPHAGE_DN, GSE22935_UNSTIM_VS_48H_MBOVIS_BCG_STIM_MACROPHAGE_DN
                                                                                                                       GSE1460_CD4_THYMOCYTE_VS_NAIVE_CD4_TCELL_ADULT_BLOOD_DN, GSE1460_CD4_THYMOCYTE_VS_NAIVE_CD4_TCELL_ADULT_BLOOD_DN
                                                                                                                       GSE10500_ARTHRITIC_SYNOVIAL_FLUID_VS_HEALTHY_MACROPHAGE_UP, GSE10500_ARTHRITIC_SYNOVIAL_FLUID_VS_HEALTHY_MACROPHAGE_UP
                                                                                                                       GSE5960 TH1 VS ANERGIC TH1 UP, GSE5960 TH1 VS ANERGIC TH1 UP
                                                                                                                       GSE3565 CTRL VS LPS INJECTED DUSP1 KO SPLENOCYTES DN, GSE3565 CTRL VS LPS INJECTED DUSP1 KO SPLENOCYTES DN
                                                                                                                       GSE25123 IL4 VS IL4 AND ROSIGLITAZONE STIM MACROPHAGE DAY10 DN, GSE25123 IL4 VS IL4 AND ROSIGLITAZONE STIM MACROPHAGE DAY10 DN
                                                                                                                       GSE22886 IGM MEMORY BCELL VS BLOOD PLASMA CELL UP, GSE22886 IGM MEMORY BCELL VS BLOOD PLASMA CELL UP
                                                                                                                       KAECH_NAIVE_VS_DAY15_EFF_CD8_TCELL_UP, KAECH_NAIVE_VS_DAY15_EFF_CD8_TCELL_UP
                                                                                                                       GSE27786 LSK VS NKTCELL DN, GSE27786 LSK VS NKTCELL DN
                                                                                                                       GSE10325_MYELOID_VS_LUPUS_MYELOID_UP, GSE10325_MYELOID_VS_LUPUS_MYELOID_UP
                                                                                                                       GSE20727_CTRL_VS_DNFB_ALLERGEN_TREATED_DC_DN, GSE20727_CTRL_VS_DNFB_ALLERGEN_TREATED_DC_DN
                                                                                                                       GSE7460_TREG_VS_TCONV_ACT_WITH_TGFB_DN, GSE7460_TREG_VS_TCONV_ACT_WITH_TGFB_DN
                                                                                                                       GSE17721_POLYIC_VS_GARDIQUIMOD_1H_BMDC_UP, GSE17721_POLYIC_VS_GARDIQUIMOD_1H_BMDC_UP
                                                                                                                       GSE3565 CTRL VS LPS INJECTED SPLENOCYTES DN, GSE3565 CTRL VS LPS INJECTED SPLENOCYTES DN
                                                                                                                       GSE22886_NAIVE_TCELL_VS_NKCELL_UP, GSE22886_NAIVE_TCELL_VS_NKCELL_UP
                                                                                                                       GSE43700_UNTREATED_VS_IL10_TREATED_PBMC_DN, GSE43700_UNTREATED_VS_IL10_TREATED_PBMC_DN
                                                                                                                       GSE16385_IFNG_TNF_VS_ROSIGLITAZONE_STIM_MACROPHAGE_UP, GSE16385_IFNG_TNF_VS_ROSIGLITAZONE_STIM_MACROPHAGE_UP
                                                                                                                       GSE22886 IGG IGA MEMORY BCELL VS BLOOD PLASMA CELL UP, GSE22886 IGG IGA MEMORY BCELL VS BLOOD PLASMA CELL UP
                                                                                                                       GSE2770 TGFB AND IL4 VS IL12 TREATED ACT CD4 TCELL 2H UP, GSE2770 TGFB AND IL4 VS IL12 TREATED ACT CD4 TCELL 2H UP
                                                                                                                       GSE15750_WT_VS_TRAF6KO_DAY6_EFF_CD8_TCELL_DN, GSE15750_WT_VS_TRAF6KO_DAY6_EFF_CD8_TCELL_DN
                                                                                                                       GSE10239_MEMORY_VS_KLRG1HIGH_EFF_CD8_TCELL_UP, GSE10239_MEMORY_VS_KLRG1HIGH_EFF_CD8_TCELL_UP
                                                                                                                       GSE24671 CTRL VS BAKIMULC INFECTED MOUSE SPLENOCYTES DN. GSE24671 CTRL VS BAKIMULC INFECTED MOUSE SPLENOCYTES DN
                                                                                                                       GSE1460_DP_THYMOCYTE_VS_NAIVE_CD4_TCELL_ADULT_BLOOD_DN, GSE1460_DP_THYMOCYTE_VS_NAIVE_CD4_TCELL_ADULT_BLOOD_DN
                                                                                                                       GSE17721_LPS_VS_PAM3CSK4_0.5H_BMDC_UP, GSE17721_LPS_VS_PAM3CSK4_0.5H_BMDC_UP
                                                                                                                        GSE21670 IL6 VS TGFB AND IL6 TREATED CD4 TCELL UP, GSE21670 IL6 VS TGFB AND IL6 TREATED CD4 TCELL UP
                                                                                                                       GSE3982_DC_VS_CENT_MEMORY_CD4_TCELL_DN, GSE3982_DC_VS_CENT_MEMORY_CD4_TCELL_DN
                                                                                                                       GSE6269 E COLI VS STAPH AUREUS INF PBMC UP, GSE6269 E COLI VS STAPH AUREUS INF PBMC UP
                                                                                                                       GSE17721_CPG_VS_GARDIQUIMOD_0.5H_BMDC_UP, GSE17721_CPG_VS_GARDIQUIMOD_0.5H_BMDC_UP
                                                                                                                       GSE43955 10H VS 30H ACT CD4 TCELL DN, GSE43955 10H VS 30H ACT CD4 TCELL DN
                                                                                                                       GSE29618_BCELL_VS_MONOCYTE_DAY7_FLU_VACCINE_UP, GSE29618_BCELL_VS_MONOCYTE_DAY7_FLU_VACCINE_UP
                                                                                                                       GSE39152_SPLEEN_CD103_NEG_VS_BRAIN_CD103_POS_MEMORY_CD8_TCELL_UP, GSE39152_SPLEEN_CD103_NEG_VS_BRAIN_CD103_POS_MEMORY_CD8_TCELL_UP
                                                                                                                       GSE21670_TGFB_VS_IL6_TREATED_STAT3_KO_CD4_TCELL_UP, GSE21670_TGFB_VS_IL6_TREATED_STAT3_KO_CD4_TCELL_UP
                                                                                                                       GSE15930_STIM_VS_STIM_AND_IFNAB_24H_CD8_T_CELL_UP, GSE15930_STIM_VS_STIM_AND_IFNAB_24H_CD8_T_CELL_UP
                                                                                                                       GSE3982_DC_VS_EFF_MEMORY_CD4_TCELL_DN, GSE3982_DC_VS_EFF_MEMORY_CD4_TCELL_DN
                                                                                                                       SCHERER_PBMC_YF_VAX_OR_APSV_WETVAX_AGE_18_40YO_JOINT_TO_VACCINIA_AND_YELLOW_FEVER_DN, SCHERER_PBMC_YF_VAX_OR_APSV_WETVAX_AGE_18_40YO_JOINT_TO_VACCINIA_AND_YELLOW_FEVER_DN
                                                                                                                       GSE29618_BCELL_VS_MONOCYTE_UP, GSE29618_BCELL_VS_MONOCYTE_UP
                                                                                                                       GSE3982_MAC_VS_BASOPHIL_DN, GSE3982_MAC_VS_BASOPHIL_DN
                                                                                                                       GSE37301_RAG2_KO_VS_RAG2_AND_ETS1_KO_NK_CELL_UP, GSE37301_RAG2_KO_VS_RAG2_AND_ETS1_KO_NK_CELL_UP
                                                                                                                       GSE42021 TCONV PLN VS CD24INT TCONV THYMUS DN, GSE42021 TCONV PLN VS CD24INT TCONV THYMUS DN
                                                                                                                       GSE25087_TREG_VS_TCONV_ADULT_DN, GSE25087_TREG_VS_TCONV_ADULT_DN
                                                                                                                       GSE22443_IL2_VS_IL12_TREATED_ACT_CD8_TCELL_UP, GSE22443_IL2_VS_IL12_TREATED_ACT_CD8_TCELL_UP
                                                                                                                       GSE41978_ID2_KO_VS_BIM_KO_KLRG1_LOW_EFFECTOR_CD8_TCELL_DN, GSE41978_ID2_KO_VS_BIM_KO_KLRG1_LOW_EFFECTOR_CD8_TCELL_DN
                                                                                                                       GSE10325_CD4_TCELL_VS_LUPUS_CD4_TCELL_UP, GSE10325_CD4_TCELL_VS_LUPUS_CD4_TCELL_UP
                                                                                                                       GSE26351_UNSTIM_VS_BMP_PATHWAY_STIM_HEMATOPOIETIC_PROGENITORS_DN, GSE26351_UNSTIM_VS_BMP_PATHWAY_STIM_HEMATOPOIETIC_PROGENITORS_DN
                                                                                                                       GAUCHER_PBMC_YF_VAX_STAMARIL_UNKNOWN_AGE_28DY_DN, GAUCHER_PBMC_YF_VAX_STAMARIL_UNKNOWN_AGE_28DY_DN
                                                                                                                       GSE12845_IGD_POS_BLOOD_VS_DARKZONE_GC_TONSIL_BCELL_UP, GSE12845_IGD_POS_BLOOD_VS_DARKZONE_GC_TONSIL_BCELL_UP
                                                                                                                       GSE43863_LY6C_INT_CXCR5POS_VS_LY6C_LOW_CXCR5NEG_EFFECTOR_CD4_TCELL_UP, GSE43863_LY6C_INT_CXCR5POS_VS_LY6C_LOW_CXCR5NEG_EFFECTOR_CD4_TCELL_UP
                                                                                                                       GSE37301 COMMON LYMPHOID PROGENITOR VS GRAN MONO PROGENITOR DN, GSE37301 COMMON LYMPHOID PROGENITOR VS GRAN MONO PROGENITOR DN
                                                                                                                       GSE360_L_MAJOR_VS_M_TUBERCULOSIS_DC_DN, GSE360_L_MAJOR_VS_M_TUBERCULOSIS_DC_DN
                                                                                                                       SOBOLEV_T_CELL_PANDEMRIX_AGE_18_64YO_1DY_UP, SOBOLEV_T_CELL_PANDEMRIX_AGE_18_64YO_1DY_UP
                                                                                                                       GSE25147_UNSTIM_VS_HELIOBACTER_PYLORI_LPS_STIM_MKN45_CELL_UP, GSE25147_UNSTIM_VS_HELIOBACTER_PYLORI_LPS_STIM_MKN45_CELL_UP
                                                                                                                       GSE17721_0.5H_VS_12H_CPG_BMDC_DN, GSE17721_0.5H_VS_12H_CPG_BMDC_DN
                                                                                                                       GSE8685_IL15_ACT_IL2_STARVED_VS_IL21_ACT_IL2_STARVED_CD4_TCELL_DN, GSE8685_IL15_ACT_IL2_STARVED_VS_IL21_ACT_IL2_STARVED_CD4_TCELL_DN
                                                                                                                       GSE7460_FOXP3_MUT_VS_WT_ACT_TCONV_DN, GSE7460_FOXP3_MUT_VS_WT_ACT_TCONV_DN
                                                                                                                       SOBOLEV_T_CELL_PANDEMRIX_AGE_18_64YO_7DY_DN, SOBOLEV_T_CELL_PANDEMRIX_AGE_18_64YO_7DY_DN
                                                                                                                       GSE3994_WT_VS_PAC1_KO_ACTIVATED_MAST_CELL_UP, GSE3994_WT_VS_PAC1_KO_ACTIVATED_MAST_CELL_UP
                                                                                                                       GSE18281_SUBCAPSULAR_VS_PERIMEDULLARY_CORTICAL_REGION_OF_THYMUS_DN, GSE18281_SUBCAPSULAR_VS_PERIMEDULLARY_CORTICAL_REGION_OF_THYMUS_DN
                                                                                                                       GSE16385_MONOCYTE_VS_12H_ROSIGLITAZONE_TREATED_MACROPHAGE_UP, GSE16385_MONOCYTE_VS_12H_ROSIGLITAZONE_TREATED_MACROPHAGE_UP
                                                                                                                       GSE17721_CTRL_VS_POLYIC_0.5H_BMDC_DN, GSE17721_CTRL_VS_POLYIC_0.5H_BMDC_DN
                                                                                                                       GSE26928_CENTR_MEMORY_VS_CXCR5_POS_CD4_TCELL_DN, GSE26928_CENTR_MEMORY_VS_CXCR5_POS_CD4_TCELL_DN
                                                                                                                       GSE27291_0H_VS_6H_STIM_GAMMADELTA_TCELL_DN, GSE27291_0H_VS_6H_STIM_GAMMADELTA_TCELL_DN
                                                                                                                       GSE7460_TREG_VS_TCONV_ACT_WITH_TGFB_UP, GSE7460_TREG_VS_TCONV_ACT_WITH_TGFB_UP
                                                                                                                       GSE26928_EFF_MEM_VS_CENTR_MEM_CD4_TCELL_UP, GSE26928_EFF_MEM_VS_CENTR_MEM_CD4_TCELL_UP
                                                                                                                       GSE42021_CD24INT_TREG_VS_CD24INT_TCONV_THYMUS_DN, GSE42021_CD24INT_TREG_VS_CD24INT_TCONV_THYMUS_DN
                                                                                                                       GSE46242_CTRL_VS_EGR2_DELETED_TH1_CD4_TCELL_DN, GSE46242_CTRL_VS_EGR2_DELETED_TH1_CD4_TCELL_DN
                                                                                                                       GSE9988_LPS_VS_LOW_LPS_MONOCYTE_UP, GSE9988_LPS_VS_LOW_LPS_MONOCYTE_UP
                                                                                                                       GSE41867_DAY15_EFFECTOR_VS_DAY30_MEMORY_CD8_TCELL_LCMV_ARMSTRONG_UP, GSE41867_DAY15_EFFECTOR_VS_DAY30_MEMORY_CD8_TCELL_LCMV_ARMSTRONG_UP
                                                                                                                       GSE25123_WT_VS_PPARG_KO_MACROPHAGE_IL4_STIM_UP, GSE25123_WT_VS_PPARG_KO_MACROPHAGE_IL4_STIM_UP
                                                                                                                       GSE10422 WT_VS_BAFF_TRANSGENIC_LN_BCELL_DN, GSE10422_WT_VS_BAFF_TRANSGENIC_LN_BCELL_DN
                                                                                                                        GSE20366_EX_VIVO_VS_HOMEOSTATIC_CONVERSION_NAIVE_CD4_TCELL_DN, GSE20366_EX_VIVO_VS_HOMEOSTATIC_CONVERSION_NAIVE_CD4_TCELL_DN
                                                                                                                        GSE2405_HEAT_KILLED_VS_LIVE_A_PHAGOCYTOPHILUM_STIM_NEUTROPHIL_24H_DN, GSE2405_HEAT_KILLED_VS_LIVE_A_PHAGOCYTOPHILUM_STIM_NEUTROPHIL_24H_DN
                                                                                                                       GSE26488_HDAC7_KO_VS_VP16_TRANSGENIC_HDAC7_KO_DOUBLE_POSITIVE_THYMOCYTE_UP, GSE26488_HDAC7_KO_VS_VP16_TRANSGENIC_HDAC7_KO_DOUBLE_POSITIVE_THYMOCYTE_UP
                                                                                                                       GSE37319 WT VS RC3H1 KO CD44LOW CD8 TCELL DN, GSE37319 WT VS RC3H1 KO CD44LOW CD8 TCELL DN
                                                                                                                       GSE8515_IL1_VS_IL6_4H_STIM_MAC_DN, GSE8515_IL1_VS_IL6_4H_STIM_MAC_DN
                                                                                                                       GSE9650_EFFECTOR_VS_EXHAUSTED_CD8_TCELL_DN, GSE9650_EFFECTOR_VS_EXHAUSTED_CD8_TCELL_DN
                                                                                                                       GSE17186_MEMORY_VS_CD21HIGH_TRANSITIONAL_BCELL_UP, GSE17186_MEMORY_VS_CD21HIGH_TRANSITIONAL_BCELL_UP
                                                                                                                       GSE360 DC VS_MAC_L_DONOVANI_UP, GSE360_DC_VS_MAC_L_DONOVANI_UP
                                                                                                                       GSE30971_2H_VS_4H_LPS_STIM_MACROPHAGE_WBP7_KO_DN, GSE30971_2H_VS_4H_LPS_STIM_MACROPHAGE_WBP7_KO_DN
                                                                                                                       GSE4142_PLASMA_CELL_VS_GC_BCELL_UP, GSE4142_PLASMA_CELL_VS_GC_BCELL_UP
                                                                                                                       GSE339_CD4POS_VS_CD4CD8DN_DC_IN_CULTURE_DN, GSE339_CD4POS_VS_CD4CD8DN_DC_IN_CULTURE_DN
                                                                                                                       GSE27291_6H_VS_7D_STIM_GAMMADELTA_TCELL_DN, GSE27291_6H_VS_7D_STIM_GAMMADELTA_TCELL_DN
                                                                                                                       SCHERER_PBMC_APSV_WETVAX_AGE_18_32YO_2_TO_4DY_DN, SCHERER_PBMC_APSV_WETVAX_AGE_18_32YO_2_TO_4DY_DN
                                                                                                                       FRANCO_BLOOD_SANOFI_PASTEUR_SA_INACTIVATED_INFLUENZA_VACCINE_CORRELATED_WITH_ANTIBODY_RESPONSE_AGE_18_40YO_0DY_NEGATIVE, FRANCO_BLOOD_SANOFI_PASTEUR_SA_INACTIVATED_INFLUENZA_VACCINE_CORRELATED_WITH_ANTIBODY_RESPONSE_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZA_INFLUENZ
                                                                                                                       GSE29618_PRE_VS_DAY7_POST_LAIV_FLU_VACCINE_MDC_UP, GSE29618_PRE_VS_DAY7_POST_LAIV_FLU_VACCINE_MDC_UP
                                                                                                                       GSE16385 MONOCYTE VS MACROPHAGE UP, GSE16385 MONOCYTE VS MACROPHAGE UP
                                                                                                                       GSE2405_0H_VS_6H_A_PHAGOCYTOPHILUM_STIM_NEUTROPHIL_DN, GSE2405_0H_VS_6H_A_PHAGOCYTOPHILUM_STIM_NEUTROPHIL_DN
                                                                                                                       GSE22611_UNSTIM_VS_6H_MDP_STIM_NOD2_TRANSDUCED_HEK293T_CELL_DN, GSE22611_UNSTIM_VS_6H_MDP_STIM_NOD2_TRANSDUCED_HEK293T_CELL_DN
                                                                                                                       GSE3720_LPS_VS_PMA_STIM_VD2_GAMMADELTA_TCELL_UP, GSE3720_LPS_VS_PMA_STIM_VD2_GAMMADELTA_TCELL_UP
                                                                                                                       PANAPASA_BLOOD_FLUENZ_AGE_03_17YO_3DY_4DY_DN, PANAPASA_BLOOD_FLUENZ_AGE_03_17YO_3DY_4DY_DN
                                                                                                                       GSE17721_CTRL_VS_LPS_2H_BMDC_DN, GSE17721_CTRL_VS_LPS_2H_BMDC_DN
                                                                                                                       GSE22886_NAIVE_CD8_TCELL_VS_NKCELL_UP, GSE22886_NAIVE_CD8_TCELL_VS_NKCELL_UP
                                                                                                                       GSE6259_33D1_POS_DC_VS_BCELL_UP, GSE6259_33D1_POS_DC_VS_BCELL_UP
                                                                                                                       GSE11057_NAIVE_VS_CENT_MEMORY_CD4_TCELL_UP, GSE11057_NAIVE_VS_CENT_MEMORY_CD4_TCELL_UP
                                                                                                                       GSE32423_CTRL_VS_IL7_MEMORY_CD8_TCELL_UP, GSE32423_CTRL_VS_IL7_MEMORY_CD8_TCELL_UP
                                                                                                                       GSE40685_NAIVE_CD4_TCELL_VS_FOXP3_KO_TREG_PRECURSOR_DN, GSE40685_NAIVE_CD4_TCELL_VS_FOXP3_KO_TREG_PRECURSOR_DN
                                                                                                                       GSE11057_EFF_MEM_VS_CENT_MEM_CD4_TCELL_DN, GSE11057_EFF_MEM_VS_CENT_MEM_CD4_TCELL_DN
                                                                                                                       GSE15659_NAIVE_CD4_TCELL_VS_RESTING_TREG_DN, GSE15659_NAIVE_CD4_TCELL_VS_RESTING_TREG_DN
                                                                                                                        GSE15930_STIM_VS_STIM_AND_IL12_72H_CD8_T_CELL_DN, GSE15930_STIM_VS_STIM_AND_IL12_72H_CD8_T_CELL_DN
                                                                                                                       GSE41176_WT_VS_TAK1_KO_UNSTIM_BCELL_UP, GSE41176_WT_VS_TAK1_KO_UNSTIM_BCELL_UP
                                                                                                                        GSE26928 EFF_MEM_VS_CENTR_MEM_CD4_TCELL_DN, GSE26928_EFF_MEM_VS_CENTR_MEM_CD4_TCELL_DN
                                                                                                                        GSE29615_DAY3_VS_DAY7_LAIV_FLU_VACCINE_PBMC_DN, GSE29615_DAY3_VS_DAY7_LAIV_FLU_VACCINE_PBMC_DN
                                                                                                                       GSE16385_UNTREATED_VS_12H_IFNG_TNF_TREATED_MACROPHAGE_UP, GSE16385_UNTREATED_VS_12H_IFNG_TNF_TREATED_MACROPHAGE_UP
                                                                                                                       GSE6674_UNSTIM_VS_CPG_STIM_BCELL_UP, GSE6674_UNSTIM_VS_CPG_STIM_BCELL_UP
                                                                                                                       GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_2H_DN, GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_2H_DN
                                                                                                                       GSE22601_DOUBLE_NEGATIVE_VS_CD8_SINGLE_POSITIVE_THYMOCYTE_UP, GSE22601_DOUBLE_NEGATIVE_VS_CD8_SINGLE_POSITIVE_THYMOCYTE_UP
                                                                                                                       GSE19888 ADENOSINE_A3R_INH_VS_TCELL_MEMBRANES_ACT_MAST_CELL_DN, GSE19888_ADENOSINE_A3R_INH_VS_TCELL_MEMBRANES_ACT_MAST_CELL_DN
                                                                                                                       GSE7460 FOXP3 MUT VS HET ACT TCONV DN, GSE7460 FOXP3 MUT VS HET ACT TCONV DN
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GSE2405 OH VS 24H A PHAGOCYTOPHILUM STIM NEUTROPHIL UP, GSE2405 OH VS 24H A PHAGOCYTOPHILUM STIM NEUTROPHIL UP