```
GSE13484_UNSTIM_VS_YF17D_VACCINE_STIM_PBMC_UP, GSE13484_UNSTIM_VS_YF17D_VACCINE_STIM_PBMC_UP
                                                                                       GSE22886_NEUTROPHIL_VS_MONOCYTE_DN, GSE22886_NEUTROPHIL_VS_MONOCYTE_DN
                                                                                       GSE22432_MULTIPOTENT_PROGENITOR_VS_PDC_DN, GSE22432_MULTIPOTENT_PROGENITOR_VS_PDC_DN
                                                                                      GSE2706_UNSTIM_VS_8H_LPS_AND_R848_DC_UP, GSE2706_UNSTIM_VS_8H_LPS_AND_R848_DC_UP
                                                                                      GSE17322_CD103_POS_VS_CD11B_HIGH_LUNG_DC_DN, GSE17322_CD103_POS_VS_CD11B_HIGH_LUNG_DC_DN
                                                                                      GSE22589_HEALTHY_VS_HIV_AND_SIV_INFECTED_DC_UP, GSE22589_HEALTHY_VS_HIV_AND_SIV_INFECTED_DC_UP
                                                                                      GSE42088_UNINF_VS_LEISHMANIA_INF_DC_2H_DN, GSE42088_UNINF_VS_LEISHMANIA_INF_DC_2H_DN
                                                                                      GSE27786_NKTCELL_VS_MONO_MAC_UP, GSE27786_NKTCELL_VS_MONO_MAC_UP
                                                                                      GSE11864_UNTREATED_VS_CSF1_IFNG_PAM3CYS_IN_MAC_UP, GSE11864_UNTREATED_VS_CSF1_IFNG_PAM3CYS_IN_MAC_UP
                                                                                      GSE3982_NEUTROPHIL_VS_TH2_DN, GSE3982_NEUTROPHIL_VS_TH2_DN
                                                                                      GSE9006_HEALTHY_VS_TYPE_1_DIABETES_PBMC_4MONTH_POST_DX_UP, GSE9006_HEALTHY_VS_TYPE_1_DIABETES_PBMC_4MONTH_POST_DX_UP
                                                                                      GSE36826_NORMAL_VS_STAPH_AUREUS_INF_IL1R_KO_SKIN_DN, GSE36826_NORMAL_VS_STAPH_AUREUS_INF_IL1R_KO_SKIN_DN
                                                                                      QI_PBMC_ZOSTAVAX_AGE_50_75YO_CORRELATED_WITH_CONTRACTION_OF_VZV_SPECIFIC_T_CELLS_PEAK_TO_28DYAT_1DY_NEGATIVE, QI_PBMC_ZOSTAVAX_AGE_50_75YO_CORRELATED_WITH_CONTRACTION_OF_VZV_SPECIFIC_T_CELLS_PEAK_TO_28DYAT_1DY_NEGATIVE
                                                                                      GSE27786_CD8_TCELL_VS_MONO_MAC_UP, GSE27786_CD8_TCELL_VS_MONO_MAC_UP
                                                                                      GSE25085_FETAL_LIVER_VS_FETAL_BM_SP4_THYMIC_IMPLANT_UP, GSE25085_FETAL_LIVER_VS_FETAL_BM_SP4_THYMIC_IMPLANT_UP
                                                                                      GSE22886_DAY1_VS_DAY7_MONOCYTE_IN_CULTURE_DN, GSE22886_DAY1_VS_DAY7_MONOCYTE_IN_CULTURE_DN
                                                                                      GSE37301_LYMPHOID_PRIMED_MPP_VS_GRAN_MONO_PROGENITOR_UP, GSE37301_LYMPHOID_PRIMED_MPP_VS_GRAN_MONO_PROGENITOR_UP
                                                                                      GSE17721_POLYIC_VS_GARDIQUIMOD_16H_BMDC_DN, GSE17721_POLYIC_VS_GARDIQUIMOD_16H_BMDC_DN
                                                                                      GSE22886_NAIVE_VS_MEMORY_TCELL_DN, GSE22886_NAIVE_VS_MEMORY_TCELL_DN
                                                                                      GSE40666_UNTREATED_VS_IFNA_STIM_EFFECTOR_CD8_TCELL_90MIN_DN, GSE40666_UNTREATED_VS_IFNA_STIM_EFFECTOR_CD8_TCELL_90MIN_DN
                                                                                      GSE24634 NAIVE CD4 TCELL VS DAY7 IL4 CONV TREG UP, GSE24634 NAIVE CD4 TCELL VS DAY7 IL4 CONV TREG UP
                                                                                      GSE26351_UNSTIM_VS_BMP_PATHWAY_STIM_HEMATOPOIETIC_PROGENITORS_UP, GSE26351_UNSTIM_VS_BMP_PATHWAY_STIM_HEMATOPOIETIC_PROGENITORS_UP
                                                                                      GSE22886 NAIVE_CD8_TCELL_VS_MEMORY_TCELL_DN, GSE22886_NAIVE_CD8_TCELL_VS_MEMORY_TCELL_DN
                                                                                      GSE3982 NEUTROPHIL VS EFF MEMORY CD4 TCELL DN, GSE3982 NEUTROPHIL VS EFF MEMORY CD4 TCELL DN
                                                                                      GSE360_HIGH_DOSE_B_MALAYI_VS_M_TUBERCULOSIS_DC_UP, GSE360_HIGH_DOSE_B_MALAYI_VS_M_TUBERCULOSIS_DC_UP
                                                                                      GSE17721_CTRL_VS_POLYIC_8H_BMDC_UP, GSE17721_CTRL_VS_POLYIC_8H_BMDC_UP
                                                                                      GSE25088_WT_VS_STAT6_KO_MACROPHAGE_UP, GSE25088_WT_VS_STAT6_KO_MACROPHAGE_UP
                                                                                      GSE36476_CTRL_VS_TSST_ACT_16H_MEMORY_CD4_TCELL_YOUNG_UP, GSE36476_CTRL_VS_TSST_ACT_16H_MEMORY_CD4_TCELL_YOUNG_UP
                                                                                      GSE3982_MAST_CELL_VS_NEUTROPHIL_UP, GSE3982_MAST_CELL_VS_NEUTROPHIL_UP
                                                                                      GSE45365_NK_CELL_VS_CD8_TCELL_MCMV_INFECTION_UP, GSE45365_NK_CELL_VS_CD8_TCELL_MCMV_INFECTION_UP
                                                                                      GSE13484_UNSTIM_VS_12H_YF17D_VACCINE_STIM_PBMC_UP, GSE13484_UNSTIM_VS_12H_YF17D_VACCINE_STIM_PBMC_UP
                                                                                      GSE25088_CTRL_VS_IL4_AND_ROSIGLITAZONE_STIM_STAT6_KO_MACROPHAGE_UP, GSE25088_CTRL_VS_IL4_AND_ROSIGLITAZONE_STIM_STAT6_KO_MACROPHAGE_UP
                                                                                      GSE3982_NEUTROPHIL_VS_CENT_MEMORY_CD4_TCELL_DN, GSE3982_NEUTROPHIL_VS_CENT_MEMORY_CD4_TCELL_DN
                                                                                      GSE1460_CORD_VS_ADULT_BLOOD_NAIVE_CD4_TCELL_DN, GSE1460_CORD_VS_ADULT_BLOOD_NAIVE_CD4_TCELL_DN
                                                                                      GSE360_CTRL_VS_M_TUBERCULOSIS_DC_UP, GSE360_CTRL_VS_M_TUBERCULOSIS_DC_UP
                                                                                      GSE43955_1H_VS_42H_ACT_CD4_TCELL_WITH_TGFB_IL6_UP, GSE43955_1H_VS_42H_ACT_CD4_TCELL_WITH_TGFB_IL6_UP
                                                                                      GSE34156_NOD2_LIGAND_VS_TLR1_TLR2_LIGAND_24H_TREATED_MONOCYTE_DN, GSE34156_NOD2_LIGAND_VS_TLR1_TLR2_LIGAND_24H_TREATED_MONOCYTE_DN
                                                                                      GSE32533_WT_VS_MIR17_OVEREXPRESS_ACT_CD4_TCELL_UP, GSE32533_WT_VS_MIR17_OVEREXPRESS_ACT_CD4_TCELL_UP
                                                                                      GSE16385_IL4_VS_ROSIGLITAZONE_STIM_MACROPHAGE_UP, GSE16385_IL4_VS_ROSIGLITAZONE_STIM_MACROPHAGE_UP
                                                                                      GSE41176_UNSTIM_VS_ANTI_IGM_STIM_BCELL_3H_DN, GSE41176_UNSTIM_VS_ANTI_IGM_STIM_BCELL_3H_DN
                                                                                      GSE43863_TH1_VS_LY6C_LOW_CXCR5NEG_EFFECTOR_CD4_TCELL_DN, GSE43863_TH1_VS_LY6C_LOW_CXCR5NEG_EFFECTOR_CD4_TCELL_DN
                                                                                      GSE22886_NAIVE_CD4_TCELL_VS_12H_ACT_TH2_UP, GSE22886_NAIVE_CD4_TCELL_VS_12H_ACT_TH2_UP
                                                                                      GSE9650_EFFECTOR_VS_EXHAUSTED_CD8_TCELL_UP, GSE9650_EFFECTOR_VS_EXHAUSTED_CD8_TCELL_UP
                                                                                      GSE27786_BCELL_VS_ERYTHROBLAST_UP, GSE27786_BCELL_VS_ERYTHROBLAST_UP
                                                                                      GSE3982_NEUTROPHIL_VS_BASOPHIL_DN, GSE3982_NEUTROPHIL_VS_BASOPHIL_DN
                                                                                      GSE17721_POLYIC_VS_PAM3CSK4_16H_BMDC_DN, GSE17721_POLYIC_VS_PAM3CSK4_16H_BMDC_DN
                                                                                      GSE17721_PAM3CSK4_VS_CPG_6H_BMDC_UP, GSE17721_PAM3CSK4_VS_CPG_6H_BMDC_UP
                                                                                      GSE3039_NKT_CELL_VS_ALPHABETA_CD8_TCELL_DN, GSE3039_NKT_CELL_VS_ALPHABETA_CD8_TCELL_DN
                                                                                      GSE3982 MAST CELL VS MAC UP, GSE3982 MAST CELL VS MAC UP
                                                                                      GSE3982_EOSINOPHIL_VS_DC_DN, GSE3982_EOSINOPHIL_VS_DC_DN
                                                                                      GSE12392_CD8A_POS_VS_NEG_SPLEEN_IFNB_KO_DC_UP, GSE12392_CD8A_POS_VS_NEG_SPLEEN_IFNB_KO_DC_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
                                                                                      GSE12366_PLASMA_CELL_VS_MEMORY_BCELL_DN, GSE12366_PLASMA_CELL_VS_MEMORY_BCELL_DN
                                                                                      GSE7509_UNSTIM_VS_FCGRIIB_STIM_MONOCYTE_UP, GSE7509_UNSTIM_VS_FCGRIIB_STIM_MONOCYTE_UP
                                                                                      GSE1432_CTRL_VS_IFNG_6H_MICROGLIA_UP, GSE1432_CTRL_VS_IFNG_6H_MICROGLIA_UP
                                                                                      GSE22886_TCELL_VS_BCELL_NAIVE_UP, GSE22886_TCELL_VS_BCELL_NAIVE_UP
                                                                                      GSE22886_NAIVE_CD4_TCELL_VS_NEUTROPHIL_UP, GSE22886_NAIVE_CD4_TCELL_VS_NEUTROPHIL_UP
                                                                                      GSE19941_IL10_KO_VS_IL10_KO_AND_NFKBP50_KO_LPS_STIM_MACROPHAGE_DN, GSE19941_IL10_KO_VS_IL10_KO_AND_NFKBP50_KO_LPS_STIM_MACROPHAGE_DN
                                                                                      GSE3982_EOSINOPHIL_VS_BASOPHIL_DN, GSE3982_EOSINOPHIL_VS_BASOPHIL_DN
                                                                                      GSE27786_NKCELL_VS_NEUTROPHIL_UP, GSE27786_NKCELL_VS_NEUTROPHIL_UP
                                                                                      SCHERER_PBMC_APSV_WETVAX_AGE_18_32YO_50_TO_60DY_UP, SCHERER_PBMC_APSV_WETVAX_AGE_18_32YO_50_TO_60DY_UP
                                                                                      GSE22886_UNSTIM_VS_STIM_MEMORY_TCELL_UP, GSE22886_UNSTIM_VS_STIM_MEMORY_TCELL_UP
                                                                                      GSE22886_CD4_TCELL_VS_BCELL_NAIVE_UP, GSE22886_CD4_TCELL_VS_BCELL_NAIVE_UP
                                                                                      GSE17186_NAIVE_VS_CD21HIGH_TRANSITIONAL_BCELL_CORD_BLOOD_UP, GSE17186_NAIVE_VS_CD21HIGH_TRANSITIONAL_BCELL_CORD_BLOOD_UP
                                                                                      GSE29618_PRE_VS_DAY7_POST_LAIV_FLU_VACCINE_BCELL_UP, GSE29618_PRE_VS_DAY7_POST_LAIV_FLU_VACCINE_BCELL_UP
                                                                                      GSE5589_LPS_VS_LPS_AND_IL10_STIM_MACROPHAGE_45MIN_UP, GSE5589_LPS_VS_LPS_AND_IL10_STIM_MACROPHAGE_45MIN_UP
                                                                                      GSE43955_1H_VS_60H_ACT_CD4_TCELL_UP, GSE43955_1H_VS_60H_ACT_CD4_TCELL_UP
                                                                                      GSE17186_NAIVE_VS_CD21LOW_TRANSITIONAL_BCELL_CORD_BLOOD_UP, GSE17186_NAIVE_VS_CD21LOW_TRANSITIONAL_BCELL_CORD_BLOOD_UP
                                                                                      GSE29164_DAY3_VS_DAY7_CD8_TCELL_AND_IL12_TREATED_MELANOMA_UP, GSE29164_DAY3_VS_DAY7_CD8_TCELL_AND_IL12_TREATED_MELANOMA_UP
                                                                                      GSE5589_LPS_VS_LPS_AND_IL6_STIM_IL10_KO_MACROPHAGE_45MIN_DN, GSE5589_LPS_VS_LPS_AND_IL6_STIM_IL10_KO_MACROPHAGE_45MIN_DN
                                                                                      GSE17186_MEMORY_VS_CD21LOW_TRANSITIONAL_BCELL_DN, GSE17186_MEMORY_VS_CD21LOW_TRANSITIONAL_BCELL_DN
                                                                                      GSE360_DC_VS_MAC_UP, GSE360_DC_VS_MAC_UP
                                                                                      GSE36476_CTRL_VS_TSST_ACT_40H_MEMORY_CD4_TCELL_YOUNG_UP, GSE36476_CTRL_VS_TSST_ACT_40H_MEMORY_CD4_TCELL_YOUNG_UP
                                                                                      GSE360_L_MAJOR_VS_B_MALAYI_HIGH_DOSE_DC_DN, GSE360_L_MAJOR_VS_B_MALAYI_HIGH_DOSE_DC_DN
                                                                                      GSE2706_UNSTIM_VS_8H_LPS_DC_UP, GSE2706_UNSTIM_VS_8H_LPS_DC_UP
                                                                                      GSE45739_UNSTIM_VS_ACD3_ACD28_STIM_NRAS_KO_CD4_TCELL_UP, GSE45739_UNSTIM_VS_ACD3_ACD28_STIM_NRAS_KO_CD4_TCELL_UP
                                                                                      GSE22886_NAIVE_TCELL_VS_DC_UP, GSE22886_NAIVE_TCELL_VS_DC_UP
                                                                                      GSE33425_CD161_HIGH_VS_NEG_CD8_TCELL_DN, GSE33425_CD161_HIGH_VS_NEG_CD8_TCELL_DN
                                                                                      GSE3982_EOSINOPHIL_VS_CENT_MEMORY_CD4_TCELL_DN, GSE3982_EOSINOPHIL_VS_CENT_MEMORY_CD4_TCELL_DN
                                                                                      GSE29618_MONOCYTE_VS_MDC_DAY7_FLU_VACCINE_DN, GSE29618_MONOCYTE_VS_MDC_DAY7_FLU_VACCINE_DN
                                                                                      GSE360_CTRL_VS_L_MAJOR_MAC_UP, GSE360_CTRL_VS_L_MAJOR_MAC_UP
                                                                                      GSE37605 TREG VS TCONV C57BL6 FOXP3 IRES GFP DN, GSE37605 TREG VS TCONV C57BL6 FOXP3 IRES GFP DN
                                                                                      GSE360_DC_VS_MAC_M_TUBERCULOSIS_DN, GSE360_DC_VS_MAC_M_TUBERCULOSIS_DN
                                                                                      GSE41176_UNSTIM_VS_ANTI_IGM_STIM_TAK1_KO_BCELL_24H_UP, GSE41176_UNSTIM_VS_ANTI_IGM_STIM_TAK1_KO_BCELL_24H_UP
                                                                                       GSE22886_NAIVE_CD8_TCELL_VS_DC_UP, GSE22886_NAIVE_CD8_TCELL_VS_DC_UP
                                                                                      GSE16385_ROSIGLITAZONE_IL4_VS_IFNG_TNF_STIM_MACROPHAGE_UP, GSE16385_ROSIGLITAZONE_IL4_VS_IFNG_TNF_STIM_MACROPHAGE_UP
                                                                                       GSE22886_NAIVE_BCELL_VS_NEUTROPHIL_UP, GSE22886_NAIVE_BCELL_VS_NEUTROPHIL_UP
                                                                                       GSE43955_TGFB_IL6_VS_TGFB_IL6_IL23_TH17_ACT_CD4_TCELL_52H_DN, GSE43955_TGFB_IL6_VS_TGFB_IL6_IL23_TH17_ACT_CD4_TCELL_52H_DN
                                                                                       GSE16522 MEMORY VS NAIVE ANTI CD3CD28 STIM CD8 TCELL DN, GSE16522 MEMORY VS NAIVE ANTI CD3CD28 STIM CD8 TCELL DN
                                                                                       GSE37301 COMMON LYMPHOID PROGENITOR VS GRAN MONO PROGENITOR UP, GSE37301 COMMON LYMPHOID PROGENITOR VS GRAN MONO PROGENITOR UP
                                                                                      GOLDRATH_EFF_VS_MEMORY_CD8_TCELL_DN, GOLDRATH_EFF_VS_MEMORY_CD8_TCELL_DN
                                                                                       GSE1925_CTRL_VS_IFNG_PRIMED_MACROPHAGE_DN, GSE1925_CTRL_VS_IFNG_PRIMED_MACROPHAGE_DN
                                                                                       GSE22886 NAIVE CD4 TCELL VS DC UP, GSE22886 NAIVE CD4 TCELL VS DC UP
                                                                                       GSE17721_LPS_VS_CPG_1H_BMDC_DN, GSE17721_LPS_VS_CPG_1H_BMDC_DN
                                                                                       GSE21927_SPLEEN_C57BL6_VS_4T1_TUMOR_BALBC_MONOCYTES_UP, GSE21927_SPLEEN_C57BL6_VS_4T1_TUMOR_BALBC_MONOCYTES_UP
                                                                                       GSE27241_CTRL_VS_DIGOXIN_TREATED_CD4_TCELL_IN_TH17_POLARIZING_CONDITIONS_DN, GSE27241_CTRL_VS_DIGOXIN_TREATED_CD4_TCELL_IN_TH17_POLARIZING_CONDITIONS_DN
                                                                                       GSE29618_MONOCYTE_VS_PDC_DAY7_FLU_VACCINE_DN, GSE29618_MONOCYTE_VS_PDC_DAY7_FLU_VACCINE_DN
                                                                                       GSE360_HIGH_VS_LOW_DOSE_B_MALAYI_DC_UP, GSE360_HIGH_VS_LOW_DOSE_B_MALAYI_DC_UP
                                                                                       GSE34205_HEALTHY_VS_FLU_INF_INFANT_PBMC_UP, GSE34205_HEALTHY_VS_FLU_INF_INFANT_PBMC_UP
                                                                                       GSE3982_MAST_CELL_VS_DC_UP, GSE3982_MAST_CELL_VS_DC_UP
                                                                                       GSE29618_MONOCYTE_VS_PDC_DN, GSE29618_MONOCYTE_VS_PDC_DN
                                                                                       GSE26030_TH1_VS_TH17_RESTIMULATED_DAY5_POST_POLARIZATION_UP, GSE26030_TH1_VS_TH17_RESTIMULATED_DAY5_POST_POLARIZATION_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
E TCELL VS NEUTROPHIL UP, GSE22886 NAIVE TCELL VS NEUTROPHIL UP
                                                                                       GSE22886_NAIVE_TCELL_VS_MONOCYTE_UP, GSE22886_NAIVE_TCELL_VS_MONOCYTE_UP
                                                                                       GSE14308_TH1_VS_INDUCED_TREG_DN, GSE14308_TH1_VS_INDUCED_TREG_DN
                                                                                       GSE13522 CTRL_VS_T_CRUZI_Y_STRAIN_INF_SKIN_IFNAR_KO_UP, GSE13522 CTRL_VS_T_CRUZI_Y_STRAIN_INF_SKIN_IFNAR_KO_UP
                                                                                       GSE10325_CD4_TCELL_VS_MYELOID_UP, GSE10325_CD4_TCELL_VS_MYELOID_UP
                                                                                       KAECH_DAY8_EFF_VS_MEMORY_CD8_TCELL_DN, KAECH_DAY8_EFF_VS_MEMORY_CD8_TCELL_DN
                                                                                       GSE4142_PLASMA_CELL_VS_GC_BCELL_DN, GSE4142_PLASMA_CELL_VS_GC_BCELL_DN
                                                                                       GSE11924_TH2_VS_TH17_CD4_TCELL_DN, GSE11924_TH2_VS_TH17_CD4_TCELL_DN
                                                                                       GSE42021_TREG_PLN_VS_CD24LO_TREG_THYMUS_UP, GSE42021_TREG_PLN_VS_CD24LO_TREG_THYMUS_UP
                                                                                       GSE43955_TH0_VS_TGFB_IL6_TH17_ACT_CD4_TCELL_42H_UP, GSE43955_TH0_VS_TGFB_IL6_TH17_ACT_CD4_TCELL_42H_UP
                                                                                       GSE17721_LPS_VS_GARDIQUIMOD_24H_BMDC_UP, GSE17721_LPS_VS_GARDIQUIMOD_24H_BMDC_UP
                                                                                       GSE3982_MAST_CELL_VS_BCELL_DN, GSE3982_MAST_CELL_VS_BCELL_DN
                                                                                       GSE22886 NAIVE CD8 TCELL VS MONOCYTE UP, GSE22886 NAIVE CD8 TCELL VS MONOCYTE UP
                                                                                       GSE40443_INDUCED_VS_TOTAL_TREG_UP, GSE40443_INDUCED_VS_TOTAL_TREG_UP
                                                                                       GSE17721_CTRL_VS_LPS_12H_BMDC_DN, GSE17721_CTRL_VS_LPS_12H_BMDC_DN
                                                                                       GSE22886_NAIVE_CD4_TCELL_VS_MONOCYTE_UP, GSE22886_NAIVE_CD4_TCELL_VS_MONOCYTE_UP
                                                                                       GSE5960_TH1_VS_ANERGIC_TH1_UP, GSE5960_TH1_VS_ANERGIC_TH1_UP
                                                                                       GSE6269_HEALTHY_VS_FLU_INF_PBMC_UP, GSE6269_HEALTHY_VS_FLU_INF_PBMC_UP
                                                                                       GSE43957_UNTREATED_VS_NACL_TREATED_ANTI_CD3_CD28_STIM_CD4_TCELL_DN, GSE43957_UNTREATED_VS_NACL_TREATED_ANTI_CD3_CD28_STIM_CD4_TCELL_DN
                                                                                      GSE5589_IL6_KO_VS_IL10_KO_LPS_STIM_MACROPHAGE_45MIN_DN, GSE5589_IL6_KO_VS_IL10_KO_LPS_STIM_MACROPHAGE_45MIN_DN
                                                                                      GSE3565_CTRL_VS_LPS_INJECTED_SPLENOCYTES_DN, GSE3565_CTRL_VS_LPS_INJECTED_SPLENOCYTES_DN
                                                                                      GSE41867_NAIVE_VS_DAY6_LCMV_ARMSTRONG_EFFECTOR_CD8_TCELL_UP, GSE41867_NAIVE_VS_DAY6_LCMV_ARMSTRONG_EFFECTOR_CD8_TCELL_UP
                                                                                      GSE26669_CD4_VS_CD8_TCELL_IN_MLR_DN, GSE26669_CD4_VS_CD8_TCELL_IN_MLR_DN
                                                                                      GSE11057_CD4_EFF_MEM_VS_PBMC_UP, GSE11057_CD4_EFF_MEM_VS_PBMC_UP
                                                                                      GSE11057_PBMC_VS_MEM_CD4_TCELL_DN, GSE11057_PBMC_VS_MEM_CD4_TCELL_DN
                                                                                      GSE21033_1H_VS_24H_POLYIC_STIM_DC_DN, GSE21033_1H_VS_24H_POLYIC_STIM_DC_DN
                                                                                      KAECH_NAIVE_VS_DAY8_EFF_CD8_TCELL_UP, KAECH_NAIVE_VS_DAY8_EFF_CD8_TCELL_UP
                                                                                      GSE360_T_GONDII_VS_B_MALAYI_LOW_DOSE_DC_DN, GSE360_T_GONDII_VS_B_MALAYI_LOW_DOSE_DC_DN
                                                                                      GSE20727_CTRL_VS_DNFB_ALLERGEN_TREATED_DC_DN, GSE20727_CTRL_VS_DNFB_ALLERGEN_TREATED_DC_DN
                                                                                      GSE12845_IGD_NEG_BLOOD_VS_DARKZONE_GC_TONSIL_BCELL_UP, GSE12845_IGD_NEG_BLOOD_VS_DARKZONE_GC_TONSIL_BCELL_UP
                                                                                      GSE16522_ANTI_CD3CD28_STIM_VS_UNSTIM_MEMORY_CD8_TCELL_UP, GSE16522_ANTI_CD3CD28_STIM_VS_UNSTIM_MEMORY_CD8_TCELL_UP
                                                                                      GSE37301_HEMATOPOIETIC_STEM_CELL_VS_COMMON_LYMPHOID_PROGENITOR_DN, GSE37301_HEMATOPOIETIC_STEM_CELL_VS_COMMON_LYMPHOID_PROGENITOR_DN
                                                                                      GSE17721_LPS_VS_GARDIQUIMOD_4H_BMDC_UP, GSE17721_LPS_VS_GARDIQUIMOD_4H_BMDC_UP
                                                                                       GSE21360_NAIVE_VS_TERTIARY_MEMORY_CD8_TCELL_UP, GSE21360_NAIVE_VS_TERTIARY_MEMORY_CD8_TCELL_UP
                                                                                      GSE25088_CTRL_VS_ROSIGLITAZONE_STIM_MACROPHAGE_UP, GSE25088_CTRL_VS_ROSIGLITAZONE_STIM_MACROPHAGE_UP
                                                                                      GSE1791_CTRL_VS_NEUROMEDINU_IN_T_CELL_LINE_0.8H_UP, GSE1791_CTRL_VS_NEUROMEDINU_IN_T_CELL_LINE_0.8H_UP
                                                                                      GSE3982_MAC_VS_CENT_MEMORY_CD4_TCELL_DN, GSE3982_MAC_VS_CENT_MEMORY_CD4_TCELL_DN
                                                                                      GSE43955_10H_VS_60H_ACT_CD4_TCELL_UP, GSE43955_10H_VS_60H_ACT_CD4_TCELL_UP
                                                                                      GSE26928 NAIVE VS_CXCR5_POS_CD4_TCELL_UP, GSE26928_NAIVE_VS_CXCR5_POS_CD4_TCELL_UP
                                                                                      GSE33374_CD8_ALPHAALPHA_VS_ALPHABETA_CD161_HIGH_TCELL_DN, GSE33374_CD8_ALPHAALPHA_VS_ALPHABETA_CD161_HIGH_TCELL_DN
                                                                                      GSE5542_UNTREATED_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_24H_DN, GSE5542_UNTREATED_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_24H_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
                                                                                      GSE360_L_MAJOR_VS_B_MALAYI_LOW_DOSE_DC_DN, GSE360_L_MAJOR_VS_B_MALAYI_LOW_DOSE_DC_DN
                                                                                      GSE29618_BCELL_VS_MONOCYTE_UP, GSE29618_BCELL_VS_MONOCYTE_UP
                                                                                      GSE10325_LUPUS_CD4_TCELL_VS_LUPUS_BCELL_UP, GSE10325_LUPUS_CD4_TCELL_VS_LUPUS_BCELL_UP
                                                                                      GSE37416_CTRL_VS_48H_F_TULARENSIS_LVS_NEUTROPHIL_UP, GSE37416_CTRL_VS_48H_F_TULARENSIS_LVS_NEUTROPHIL_UP
                                                                                      GSE21670_IL6_VS_TGFB_AND_IL6_TREATED_CD4_TCELL_UP, GSE21670_IL6_VS_TGFB_AND_IL6_TREATED_CD4_TCELL_UP
                                                                                      GSE17721_LPS_VS_CPG_12H_BMDC_DN, GSE17721_LPS_VS_CPG_12H_BMDC_DN
                                                                                      GSE17721_CTRL_VS_CPG_6H_BMDC_DN, GSE17721_CTRL_VS_CPG_6H_BMDC_DN
                                                                                      GSE3982_BCELL_VS_TH1_UP, GSE3982_BCELL_VS_TH1_UP
                                                                                      GSE7852_TREG_VS_TCONV_LN_DN, GSE7852_TREG_VS_TCONV_LN_DN
                                                                                      GSE3203_HEALTHY_VS_INFLUENZA_INFECTED_LN_BCELL_UP, GSE3203_HEALTHY_VS_INFLUENZA_INFECTED_LN_BCELL_UP
                                                                                      GSE23568 CTRL TRANSDUCED VS_WT_CD8_TCELL_DN, GSE23568 CTRL_TRANSDUCED_VS_WT_CD8_TCELL_DN
                                                                                      GSE27786_CD8_TCELL_VS_NKCELL_UP, GSE27786_CD8_TCELL_VS_NKCELL_UP
                                                                                      GSE13547_CTRL_VS_ANTI_IGM_STIM_ZFX_KO_BCELL_12H_DN, GSE13547_CTRL_VS_ANTI_IGM_STIM_ZFX_KO_BCELL_12H_DN
                                                                                      GSE22611_NOD2_VS_MUTANT_NOD2_TRANSDUCED_HEK293T_CELL_DN, GSE22611_NOD2_VS_MUTANT_NOD2_TRANSDUCED_HEK293T_CELL_DN
                                                                                      GSE21033_CTRL_VS_POLYIC_STIM_DC_24H_DN, GSE21033_CTRL_VS_POLYIC_STIM_DC_24H_DN
                                                                                      GSE339_EX_VIVO_VS_IN_CULTURE_CD8POS_DC_DN, GSE339_EX_VIVO_VS_IN_CULTURE_CD8POS_DC_DN
                                                                                      GSE29618_BCELL_VS_MONOCYTE_DAY7_FLU_VACCINE_UP, GSE29618_BCELL_VS_MONOCYTE_DAY7_FLU_VACCINE_UP
                                                                                      GSE3982 DC VS_NKCELL_DN, GSE3982_DC_VS_NKCELL_DN
                                                                                      GSE360 LOW DOSE B MALAYI VS M TUBERCULOSIS MAC DN, GSE360 LOW DOSE B MALAYI VS M TUBERCULOSIS MAC DN
                                                                                      GSE22611_UNSTIM_VS_6H_MDP_STIM_NOD2_TRANSDUCED_HEK293T_CELL_DN, GSE22611_UNSTIM_VS_6H_MDP_STIM_NOD2_TRANSDUCED_HEK293T_CELL_DN
                                                                                      ZAK_PBMC_MRKAD5_HIV_1_GAG_POL_NEF_AGE_20_50YO_AD5_NAB_TITERS_GTE_200_VS_LTE_200_1DY_UP, ZAK_PBMC_MRKAD5_HIV_1_GAG_POL_NEF_AGE_20_50YO_AD5_NAB_TITERS_GTE_200_VS_LTE_200_1DY_UP
                                                                                      GSE10325_CD4_TCELL_VS_LUPUS_CD4_TCELL_UP, GSE10325_CD4_TCELL_VS_LUPUS_CD4_TCELL_UP
                                                                                      GSE369_PRE_VS_POST_IL6_INJECTION_IFNG_KO_LIVER_DN, GSE369_PRE_VS_POST_IL6_INJECTION_IFNG_KO_LIVER_DN
                                                                                      GSE11961_PLASMA_CELL_DAY7_VS_MEMORY_BCELL_DAY40_DN, GSE11961_PLASMA_CELL_DAY7_VS_MEMORY_BCELL_DAY40_DN
                                                                                      GSE1112 OT1_CD8AB_VS_HY_CD8AA_THYMOCYTE_RTOC_CULTURE_DN, GSE1112_OT1_CD8AB_VS_HY_CD8AA_THYMOCYTE_RTOC_CULTURE_DN
                                                                                      GSE7764_NKCELL_VS_SPLENOCYTE_DN, GSE7764_NKCELL_VS_SPLENOCYTE_DN
                                                                                      GSE41176_UNSTIM_VS_ANTI_IGM_STIM_BCELL_1H_UP, GSE41176_UNSTIM_VS_ANTI_IGM_STIM_BCELL_1H_UP
                                                                                      GSE16385_MONOCYTE_VS_12H_ROSIGLITAZONE_TREATED_MACROPHAGE_UP, GSE16385_MONOCYTE_VS_12H_ROSIGLITAZONE_TREATED_MACROPHAGE_UP
                                                                                      GSE24574_BCL6_HIGH_TFH_VS_TFH_CD4_TCELL_UP, GSE24574_BCL6_HIGH_TFH_VS_TFH_CD4_TCELL_UP
                                                                                      GSE32034_LY6C_HIGH_VS_LOW_MONOCYTE_UP, GSE32034_LY6C_HIGH_VS_LOW_MONOCYTE_UP
                                                                                      GSE15930_NAIVE_VS_48H_IN_VITRO_STIM_IFNAB_CD8_TCELL_UP, GSE15930_NAIVE_VS_48H_IN_VITRO_STIM_IFNAB_CD8_TCELL_UP
                                                                                      GSE40274_LEF1_VS_FOXP3_AND_LEF1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN, GSE40274_LEF1_VS_FOXP3_AND_LEF1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN
                                                                                      GSE40184_HEALTHY_VS_HCV_INFECTED_DONOR_PBMC_UP, GSE40184_HEALTHY_VS_HCV_INFECTED_DONOR_PBMC_UP
                                                                                      GSE18281 PERIMEDULLARY_CORTICAL_REGION_VS_WHOLE_CORTEX_THYMUS_DN, GSE18281_PERIMEDULLARY_CORTICAL_REGION_VS_WHOLE_CORTEX_THYMUS_DN
                                                                                      GSE40274_FOXP3_VS_FOXP3_AND_HELIOS_TRANSDUCED_ACTIVATED_CD4_TCELL_UP, GSE40274_FOXP3_VS_FOXP3_AND_HELIOS_TRANSDUCED_ACTIVATED_CD4_TCELL_UP
                                                                                      GSE36527_CD62L_HIGH_CD69_NEG_VS_CD62L_LOW_CD69_POS_TREG_KLRG1_NEG_DN, GSE36527_CD62L_HIGH_CD69_NEG_VS_CD62L_LOW_CD69_POS_TREG_KLRG1_NEG_DN
                                                                                      KAZMIN_PBMC_P_FALCIPARUM_RTSS_AS01_AGE_UNKNOWN_CORRELATED_WITH_PROTECTION_56DY_POSITIVE, KAZMIN_PBMC_P_FALCIPARUM_RTSS_AS01_AGE_UNKNOWN_CORRELATED_WITH_PROTECTION_56DY_POSITIVE
                                                                                      GSE3982_CTRL_VS_LPS_48H_DC_UP, GSE3982_CTRL_VS_LPS_48H_DC_UP
                                                                                      GSE45365_NK_CELL_VS_CD8A_DC_MCMV_INFECTION_UP, GSE45365_NK_CELL_VS_CD8A_DC_MCMV_INFECTION_UP
                                                                                      GSE21033_3H_VS_12H_POLYIC_STIM_DC_DN, GSE21033_3H_VS_12H_POLYIC_STIM_DC_DN
                                                                                      GSE39820_IL1B_IL6_VS_IL1B_IL6_IL23A_TREATED_CD4_TCELL_DN, GSE39820_IL1B_IL6_VS_IL1B_IL6_IL23A_TREATED_CD4_TCELL_DN
                                                                                      SCHERER_PBMC_APSV_WETVAX_AGE_18_40YO_5_TO_7DY_DN, SCHERER_PBMC_APSV_WETVAX_AGE_18_40YO_5_TO_7DY_DN
                                                                                      GSE21927_SPLENIC_VS_TUMOR_MONOCYTES_FROM_C26GM_TUMOROUS_MICE_BALBC_UP, GSE21927_SPLENIC_VS_TUMOR_MONOCYTES_FROM_C26GM_TUMOROUS_MICE_BALBC_UP
                                                                                      GSE15330 HSC VS MEGAKARYOCYTE ERYTHROID PROGENITOR IKAROS KO DN, GSE15330 HSC VS MEGAKARYOCYTE ERYTHROID PROGENITOR IKAROS KO DN
                                                                                      GSE2770_UNTREATED_VS_TGFB_AND_IL12_TREATED_ACT_CD4_TCELL_2H_UP, GSE2770_UNTREATED_VS_TGFB_AND_IL12_TREATED_ACT_CD4_TCELL_2H_UP
                                                                                      GSE22886_CD8_TCELL_VS_BCELL_NAIVE_DN, GSE22886_CD8_TCELL_VS_BCELL_NAIVE_DN
                                                                                      GSE22443_NAIVE_VS_ACT_AND_IL12_TREATED_CD8_TCELL_DN, GSE22443_NAIVE_VS_ACT_AND_IL12_TREATED_CD8_TCELL_DN
                                                                                      GSE2770_UNTREATED_VS_TGFB_AND_IL12_TREATED_ACT_CD4_TCELL_6H_DN, GSE2770_UNTREATED_VS_TGFB_AND_IL12_TREATED_ACT_CD4_TCELL_6H_DN
                                                                                      GSE360_L_MAJOR_VS_M_TUBERCULOSIS_MAC_DN, GSE360_L_MAJOR_VS_M_TUBERCULOSIS_MAC_DN
                                                                                      GSE21927 UNTREATED VS GMCSF IL6 TREATED BONE MARROW UP, GSE21927 UNTREATED VS GMCSF IL6 TREATED BONE MARROW UP
                                                                                      GSE13887_HEALTHY_VS_LUPUS_RESTING_CD4_TCELL_DN, GSE13887_HEALTHY_VS_LUPUS_RESTING_CD4_TCELL_DN
                                                                                      GSE42088_2H_VS_24H_LEISHMANIA_INF_DC_DN, GSE42088_2H_VS_24H_LEISHMANIA_INF_DC_DN
                                                                                      GSE3982 MAST CELL VS EFF MEMORY CD4 TCELL DN, GSE3982 MAST CELL VS EFF MEMORY CD4 TCELL DN
                                                                                      HARALAMBIEVA_PBMC_FLUARIX_AGE_50_74YO_CORR_WITH_28D_MEM_B_CELL_RESPONSE_AT_28DY_LEUK_MIGR_MAPK_ACT_CYTOK_SIG_DIAB_OF_THE_YNG_NEGATIVE, HARALAMBIEVA_PBMC_FLUARIX_AGE_50_74YO_CORR_WITH_28D_MEM_B_CELL_RESPONSE_AT_28DY_LEUK_MIGR_MAPK_ACT_CYTOK_SIG_DIAB_OF_THE_YNG_NEGATIVE, HARALAMBIEVA_PBMC_FLUARIX_AGE_50_74YO_CORR_WITH_28D_MEM_B_CELL_RESPONSE_AT_28DY_LEUK_MIGR_MAPK_ACT_CYTOK_SIG_DIAB_OF_THE_YNG_NEGATIVE, HARALAMBIEVA_PBMC_FLUARIX_AGE_50_74YO_CORR_WITH_28D_MEM_B_CELL_RESPONSE_AT_28DY_LEUK_MIGR_MAPK_ACT_CYTOK_SIG_DIAB_OF_THE_YNG_NEGATIVE, HARALAMBIEVA_PBMC_FLUARIX_AGE_50_74YO_CORR_WITH_28D_MEM_B_CELL_RESPONSE_AT_28DY_LEUK_MIGR_MAPK_ACT_CYTOK_SIG_DIAB_OF_THE_YNG_NEGATIVE, HARALAMBIEVA_PBMC_FLUARIX_AGE_50_74YO_CORR_WITH_28D_MEM_B_CELL_RESPONSE_AT_28DY_LEUK_MIGR_MAPK_ACT_CYTOK_SIG_DIAB_OF_THE_YNG_NEGATIVE, HARALAMBIEVA_PBMC_FLUARIX_AGE_50_74YO_CORR_WITH_28D_MEM_B_CELL_RESPONSE_AT_28DY_LEUK_MIGR_MAPK_ACT_CYTOK_SIG_DIAB_OF_THE_YNG_NEGATIVE, HARALAMBIEVA_PBMC_FLUARIX_AGE_50_74YO_CORR_WITH_28D_MEM_B_CELL_RESPONSE_AT_28DY_LEUK_MIGR_MAPK_ACT_CYTOK_SIG_DIAB_OF_THE_YNG_NEGATIVE, HARALAMBIEVA_PBMC_FLUARIX_AGE_50_74YO_CORR_WITH_28D_MEM_B_CELL_RESPONSE_AT_28DY_LEUK_MIGR_MAPK_ACT_CYTOK_SIG_DIAB
                                                                                      GSE26290 CTRL VS AKT INHIBITOR TREATED ANTI CD3 AND IL2 STIM CD8 TCELL UP, GSE26290 CTRL VS AKT INHIBITOR TREATED ANTI CD3 AND IL2 STIM CD8 TCELL UP
                                                                                      GSE26928_EFF_MEMORY_VS_CXCR5_POS_CD4_TCELL_UP, GSE26928_EFF_MEMORY_VS_CXCR5_POS_CD4_TCELL_UP
                                                                                      FULLER_PBMC_F_TULARENSIS_VACCINE_LVS_AGE_22_54YO_18HR_TO_48HR_EARLY_DN, FULLER_PBMC_F_TULARENSIS_VACCINE_LVS_AGE_22_54YO_18HR_TO_48HR_EARLY_DN
                                                                                      GSE37319_WT_VS_RC3H1_KO_CD44LOW_CD8_TCELL_UP, GSE37319_WT_VS_RC3H1_KO_CD44LOW_CD8_TCELL_UP
                                                                                       GSE17721_CPG_VS_GARDIQUIMOD_16H_BMDC_UP, GSE17721_CPG_VS_GARDIQUIMOD_16H_BMDC_UP
                                                                                       GSE37301_COMMON_LYMPHOID_PROGENITOR_VS_GRAN_MONO_PROGENITOR_DN, GSE37301_COMMON_LYMPHOID_PROGENITOR_VS_GRAN_MONO_PROGENITOR_DN
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GSE22935\_UNSTIM\_VS\_12H\_MBOVIS\_BCG\_STIM\_MYD88\_KO\_MACROPHAGE\_UP, GSE22935\_UNSTIM\_VS\_12H\_MBOVIS\_BCG\_STIM\_MYD88\_KO\_MACROPHAGE\_UP