```
GSE43863_NAIVE_VS_MEMORY_TFH_CD4_TCELL_D150_LCMV_DN, GSE43863_NAIVE_VS_MEMORY_TFH_CD4_TCELL_D150_LCMV_DN
                                                                                                                       GSE22886_UNSTIM_VS_STIM_MEMORY_TCELL_DN, GSE22886_UNSTIM_VS_STIM_MEMORY_TCELL_DN
                                                                                                                       GSE2770_IL4_ACT_VS_ACT_CD4_TCELL_2H_UP, GSE2770_IL4_ACT_VS_ACT_CD4_TCELL_2H_UP
                                                                                                                       GSE22886_NAIVE_CD4_TCELL_VS_12H_ACT_TH2_DN, GSE22886_NAIVE_CD4_TCELL_VS_12H_ACT_TH2_DN
                                                                                                                       GSE46606_UNSTIM_VS_CD40L_IL2_IL5_DAY1_STIMULATED_BCELL_DN, GSE46606_UNSTIM_VS_CD40L_IL2_IL5_DAY1_STIMULATED_BCELL_DN
                                                                                                                       GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_24H_CD4_TCELL_DN, GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_24H_CD4_TCELL_DN
                                                                                                                       GSE24634_TREG_VS_TCONV_POST_DAY5_IL4_CONVERSION_UP, GSE24634_TREG_VS_TCONV_POST_DAY5_IL4_CONVERSION_UP
                                                                                                                       GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_12H_CD4_TCELL_DN, GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_12H_CD4_TCELL_DN
                                                                                                                       GSE22935_24H_VS_48H_MBOVIS_BCG_STIM_MACROPHAGE_DN, GSE22935_24H_VS_48H_MBOVIS_BCG_STIM_MACROPHAGE_DN
                                                                                                                       GSE36476_CTRL_VS_TSST_ACT_72H_MEMORY_CD4_TCELL_OLD_DN, GSE36476_CTRL_VS_TSST_ACT_72H_MEMORY_CD4_TCELL_OLD_DN
                                                                                                                       GSE19825 CD24LOW VS IL2RA HIGH DAY3 EFF CD8 TCELL DN, GSE19825 CD24LOW VS IL2RA HIGH DAY3 EFF CD8 TCELL DN
                                                                                                                       GSE17974 OH VS_12H IN_VITRO_ACT_CD4_TCELL_DN, GSE17974 OH VS_12H IN_VITRO_ACT_CD4_TCELL_DN
                                                                                                                       GSE41867_DAY8_VS_DAY15_LCMV_CLONE13_EFFECTOR_CD8_TCELL_DN, GSE41867_DAY8_VS_DAY15_LCMV_CLONE13_EFFECTOR_CD8_TCELL_DN
                                                                                                                       GSE17974_0H_VS_6H_IN_VITRO_ACT_CD4_TCELL_DN, GSE17974_0H_VS_6H_IN_VITRO_ACT_CD4_TCELL_DN
                                                                                                                       GSE15330_MEGAKARYOCYTE_ERYTHROID_VS_GRANULOCYTE_MONOCYTE_PROGENITOR_IKAROS_KO_UP, GSE15330_MEGAKARYOCYTE_ERYTHROID_VS_GRANULOCYTE_MONOCYTE_PROGENITOR_IKAROS_KO_UP
                                                                                                                       GSE23321_EFFECTOR_MEMORY_VS_NAIVE_CD8_TCELL_DN, GSE23321_EFFECTOR_MEMORY_VS_NAIVE_CD8_TCELL_DN
                                                                                                                       GSE27786_CD8_TCELL_VS_MONO_MAC_UP, GSE27786_CD8_TCELL_VS_MONO_MAC_UP
                                                                                                                       GSE2770_UNTREATED_VS_IL12_TREATED_ACT_CD4_TCELL_2H_DN, GSE2770_UNTREATED_VS_IL12_TREATED_ACT_CD4_TCELL_2H_DN
                                                                                                                       GSE3982_MEMORY_CD4_TCELL_VS_TH2_DN, GSE3982_MEMORY_CD4_TCELL_VS_TH2_DN
                                                                                                                       GSE4142_NAIVE_VS_GC_BCELL_DN, GSE4142_NAIVE_VS_GC_BCELL_DN
                                                                                                                       GSE2770_UNTREATED_VS_IL4_TREATED_ACT_CD4_TCELL_48H_DN, GSE2770_UNTREATED_VS_IL4_TREATED_ACT_CD4_TCELL_48H_DN
                                                                                                                       GSE41867_DAY6_EFFECTOR_VS_DAY30_EXHAUSTED_CD8_TCELL_LCMV_CLONE13_DN, GSE41867_DAY6_EFFECTOR_VS_DAY30_EXHAUSTED_CD8_TCELL_LCMV_CLONE13_DN
                                                                                                                       GSE27786_LIN_NEG_VS_NEUTROPHIL_UP, GSE27786_LIN_NEG_VS_NEUTROPHIL_UP
                                                                                                                       GSE17974 1H VS_72H_UNTREATED_IN_VITRO_CD4_TCELL_DN, GSE17974_1H_VS_72H_UNTREATED_IN_VITRO_CD4_TCELL_DN
                                                                                                                       GSE41867_DAY15_EFFECTOR_VS_DAY30_EXHAUSTED_CD8_TCELL_LCMV_CLONE13_DN, GSE41867_DAY15_EFFECTOR_VS_DAY30_EXHAUSTED_CD8_TCELL_LCMV_CLONE13_DN
                                                                                                                       GSE23114 WT VS SLE2C1 MOUSE SPLEEN_B1A_BCELL_UP, GSE23114 WT_VS_SLE2C1_MOUSE SPLEEN_B1A_BCELL_UP
                                                                                                                       GSE17721_LPS_VS_GARDIQUIMOD_2H_BMDC_DN, GSE17721_LPS_VS_GARDIQUIMOD_2H_BMDC_DN
                                                                                                                       GSE45739_NRAS_KO_VS_WT_UNSTIM_CD4_TCELL_UP, GSE45739_NRAS_KO_VS_WT_UNSTIM_CD4_TCELL_UP
                                                                                                                       GSE45739_NRAS_KO_VS_WT_ACD3_ACD28_STIM_CD4_TCELL_UP, GSE45739_NRAS_KO_VS_WT_ACD3_ACD28_STIM_CD4_TCELL_UP
                                                                                                                       GSE17721_CTRL_VS_POLYIC_6H_BMDC_UP, GSE17721_CTRL_VS_POLYIC_6H_BMDC_UP
                                                                                                                       GSE32423_MEMORY_VS_NAIVE_CD8_TCELL_IL7_IL4_DN, GSE32423_MEMORY_VS_NAIVE_CD8_TCELL_IL7_IL4_DN
                                                                                                                       GSE14769_20MIN_VS_360MIN_LPS_BMDM_UP, GSE14769_20MIN_VS_360MIN_LPS_BMDM_UP
                                                                                                                       GSE1460_NAIVE_CD4_TCELL_CORD_BLOOD_VS_THYMIC_STROMAL_CELL_DN, GSE1460_NAIVE_CD4_TCELL_CORD_BLOOD_VS_THYMIC_STROMAL_CELL_DN
                                                                                                                       GSE17721_LPS_VS_PAM3CSK4_8H_BMDC_DN, GSE17721_LPS_VS_PAM3CSK4_8H_BMDC_DN
                                                                                                                       GSE3982_NEUTROPHIL_VS_EFF_MEMORY_CD4_TCELL_DN, GSE3982_NEUTROPHIL_VS_EFF_MEMORY_CD4_TCELL_DN
                                                                                                                       GSE27786_LIN_NEG_VS_ERYTHROBLAST_UP, GSE27786_LIN_NEG_VS_ERYTHROBLAST_UP
                                                                                                                       GSE3982 CENT_MEMORY_CD4_TCELL_VS_TH2_DN, GSE3982_CENT_MEMORY_CD4_TCELL_VS_TH2_DN
                                                                                                                       GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_12H_UP, GSE18791_CTRL_VS_NEWCASTLE_VIRUS_DC_12H_UP
                                                                                                                       GSE5503_LIVER_DC_VS_SPLEEN_DC_ACTIVATED_ALLOGENIC_TCELL_DN, GSE5503_LIVER_DC_VS_SPLEEN_DC_ACTIVATED_ALLOGENIC_TCELL_DN
                                                                                                                       GSE17721_LPS_VS_PAM3CSK4_24H_BMDC_UP, GSE17721_LPS_VS_PAM3CSK4_24H_BMDC_UP
                                                                                                                       GSE3982_CENT_MEMORY_CD4_TCELL_VS_TH1_DN, GSE3982_CENT_MEMORY_CD4_TCELL_VS_TH1_DN
                                                                                                                       GSE17721_LPS_VS_CPG_1H_BMDC_UP, GSE17721_LPS_VS_CPG_1H_BMDC_UP
                                                                                                                       GSE39556_CD8A_DC_VS_NK_CELL_MOUSE_3H_POST_POLYIC_INJ_UP, GSE39556_CD8A_DC_VS_NK_CELL_MOUSE_3H_POST_POLYIC_INJ_UP
                                                                                                                       GSE360_CTRL_VS_L_DONOVANI_DC_UP, GSE360_CTRL_VS_L_DONOVANI_DC_UP
                                                                                                                       GSE27786_LSK_VS_NKTCELL_UP, GSE27786_LSK_VS_NKTCELL_UP
                                                                                                                       GSE18893_TCONV_VS_TREG_24H_TNF_STIM_DN, GSE18893_TCONV_VS_TREG_24H_TNF_STIM_DN
                                                                                                                       GSE20198_IL12_VS_IL12_IL18_TREATED_ACT_CD4_TCELL_UP, GSE20198_IL12_VS_IL12_IL18_TREATED_ACT_CD4_TCELL_UP
                                                                                                                       GSE41176_WT_VS_TAK1_KO_ANTI_IGM_STIM_BCELL_24H_DN, GSE41176_WT_VS_TAK1_KO_ANTI_IGM_STIM_BCELL_24H_DN
                                                                                                                       GSE11961_MARGINAL_ZONE_BCELL_VS_MEMORY_BCELL_DAY40_DN, GSE11961_MARGINAL_ZONE_BCELL_VS_MEMORY_BCELL_DAY40_DN
                                                                                                                       GSE5589_UNSTIM_VS_45MIN_LPS_AND_IL6_STIM_MACROPHAGE_DN, GSE5589_UNSTIM_VS_45MIN_LPS_AND_IL6_STIM_MACROPHAGE_DN
                                                                                                                       GSE22103_UNSTIM_VS_LPS_STIM_NEUTROPHIL_UP, GSE22103_UNSTIM_VS_LPS_STIM_NEUTROPHIL_UP
                                                                                                                       GSE28726 NAIVE CD4 TCELL VS NAIVE NKTCELL UP, GSE28726 NAIVE CD4 TCELL VS NAIVE NKTCELL UP
                                                                                                                      GSE39022_LN_VS_SPLEEN_DC_DN, GSE39022_LN_VS_SPLEEN_DC_DN
                                                                                                                      GSE35543_IN_VIVO_NTREG_VS_CONVERTED_EX_ITREG_UP, GSE35543_IN_VIVO_NTREG_VS_CONVERTED_EX_ITREG_UP
                                                                                                                       GSE23308_WT_VS_MINERALCORTICOID_REC_KO_MACROPHAGE_CORTICOSTERONE_TREATED_DN, GSE23308_WT_VS_MINERALCORTICOID_REC_KO_MACROPHAGE_CORTICOSTERONE_TREATED_DN
                                                                                                                      GSE26351_UNSTIM_VS_WNT_PATHWAY_STIM_HEMATOPOIETIC_PROGENITORS_DN, GSE26351_UNSTIM_VS_WNT_PATHWAY_STIM_HEMATOPOIETIC_PROGENITORS_DN
                                                                                                                      GSE1460_DP_THYMOCYTE_VS_NAIVE_CD4_TCELL_ADULT_BLOOD_UP, GSE1460_DP_THYMOCYTE_VS_NAIVE_CD4_TCELL_ADULT_BLOOD_UP
                                                                                                                      GSE360_CTRL_VS_M_TUBERCULOSIS_MAC_UP, GSE360_CTRL_VS_M_TUBERCULOSIS_MAC_UP
                                                                                                                      GSE36392_EOSINOPHIL_VS_NEUTROPHIL_IL25_TREATED_LUNG_DN, GSE36392_EOSINOPHIL_VS_NEUTROPHIL_IL25_TREATED_LUNG_DN
                                                                                                                      GSE3982_MAC_VS_TH1_DN, GSE3982_MAC_VS_TH1_DN
                                                                                                                      GSE11924_TFH_VS_TH17_CD4_TCELL_DN, GSE11924_TFH_VS_TH17_CD4_TCELL_DN
                                                                                                                      GSE4984_GALECTIN1_VS_VEHICLE_CTRL_TREATED_DC_DN, GSE4984_GALECTIN1_VS_VEHICLE_CTRL_TREATED_DC_DN
                                                                                                                      GSE43955_1H_VS_10H_ACT_CD4_TCELL_UP, GSE43955_1H_VS_10H_ACT_CD4_TCELL_UP
                                                                                                                       GSE19888_NO_PRETREAT_VS_ADENOSINE_A3R_INHIBITOR_PRETREATED_MAST_CELL_TCELL_MEMBRANES_ACT_UP, GSE19888_NO_PRETREAT_VS_ADENOSINE_A3R_INHIBITOR_PRETREATED_MAST_CELL_TCELL_MEMBRANES_ACT_UP
                                                                                                                       GSE2770_TGFB_AND_IL4_VS_TGFB_AND_IL12_TREATED_ACT_CD4_TCELL_2H_DN, GSE2770_TGFB_AND_IL4_VS_TGFB_AND_IL12_TREATED_ACT_CD4_TCELL_2H_DN
                                                                                                                      GSE17721_0.5H_VS_24H_POLYIC_BMDC_UP, GSE17721_0.5H_VS_24H_POLYIC_BMDC_UP
                                                                                                                       GSE3982_EOSINOPHIL_VS_MAC_DN, GSE3982_EOSINOPHIL_VS_MAC_DN
                                                                                                                       GSE43955_1H_VS_20H_ACT_CD4_TCELL_UP, GSE43955_1H_VS_20H_ACT_CD4_TCELL_UP
                                                                                                                      GSE360_CTRL_VS_L_DONOVANI_MAC_UP, GSE360_CTRL_VS_L_DONOVANI_MAC_UP
                                                                                                                       GSE13485_DAY3_VS_DAY7_YF17D_VACCINE_PBMC_UP, GSE13485_DAY3_VS_DAY7_YF17D_VACCINE_PBMC_UP
                                                                                                                       GSE40277_EOS_AND_LEF1_TRANSDUCED_VS_CTRL_CD4_TCELL_DN, GSE40277_EOS_AND_LEF1_TRANSDUCED_VS_CTRL_CD4_TCELL_DN
                                                                                                                       GSE20198_IL12_IL18_VS_IFNA_TREATED_ACT_CD4_TCELL_DN, GSE20198_IL12_IL18_VS_IFNA_TREATED_ACT_CD4_TCELL_DN
                                                                                                                       GSE19888_NO_PRETREAT_VS_ADENOSINE_A3R_INHIBITOR_PRETREATED_MAST_CELL_TCELL_MEMBRANES_ACT_DN, GSE19888_NO_PRETREAT_VS_ADENOSINE_A3R_INHIBITOR_PRETREATED_MAST_CELL_TCELL_MEMBRANES_ACT_DN
                                                                                                                       GSE14308_TH1_VS_NATURAL_TREG_UP, GSE14308_TH1_VS_NATURAL_TREG_UP
                                                                                                                       GSE5589_LPS_AND_IL10_VS_LPS_AND_IL6_STIM_MACROPHAGE_45MIN_DN, GSE5589_LPS_AND_IL10_VS_LPS_AND_IL6_STIM_MACROPHAGE_45MIN_DN
                                                                                                                       GSE14308_TH1_VS_TH17_UP, GSE14308_TH1_VS_TH17_UP
                                                                                                                       GSE17721_CTRL_VS_LPS_12H_BMDC_UP, GSE17721_CTRL_VS_LPS_12H_BMDC_UP
                                                                                                                       GSE8685_IL2_STARVED_VS_IL21_ACT_IL2_STARVED_CD4_TCELL_UP, GSE8685_IL2_STARVED_VS_IL21_ACT_IL2_STARVED_CD4_TCELL_UP
                                                                                                                       GSE40274_EOS_VS_FOXP3_AND_EOS_TRANSDUCED_ACTIVATED_CD4_TCELL_UP, GSE40274_EOS_VS_FOXP3_AND_EOS_TRANSDUCED_ACTIVATED_CD4_TCELL_UP
                                                                                                                       GSE8921_UNSTIM_VS_TLR1_2_STIM_MONOCYTE_12H_DN, GSE8921_UNSTIM_VS_TLR1_2_STIM_MONOCYTE_12H_DN
                                                                                                                       GSE17721_CTRL_VS_LPS_24H_BMDC_DN, GSE17721_CTRL_VS_LPS_24H_BMDC_DN
                                                                                                                       GSE7460 CTRL VS TGFB TREATED ACT FOXP3 HET TCONV UP, GSE7460 CTRL VS TGFB TREATED ACT FOXP3 HET TCONV UP
                                                                                                                       GSE5589_IL6_KO_VS_IL10_KO_LPS_AND_IL6_STIM_MACROPHAGE_45MIN_UP, GSE5589_IL6_KO_VS_IL10_KO_LPS_AND_IL6_STIM_MACROPHAGE_45MIN_UP
                                                                                                                       GSE33425_CD8_ALPHAALPHA_VS_ALPHABETA_CD161_HIGH_TCELL_DN, GSE33425_CD8_ALPHAALPHA_VS_ALPHABETA_CD161_HIGH_TCELL_DN
                                                                                                                       GSE17812_WT_VS_THPOK_KO_MEMORY_CD8_TCELL_UP, GSE17812_WT_VS_THPOK_KO_MEMORY_CD8_TCELL_UP
                                                                                                                       GSE17721_LPS_VS_POLYIC_6H_BMDC_UP, GSE17721_LPS_VS_POLYIC_6H_BMDC_UP
                                                                                                                       GSE37301_HEMATOPOIETIC_STEM_CELL_VS_PRO_BCELL_DN, GSE37301_HEMATOPOIETIC_STEM_CELL_VS_PRO_BCELL_DN
                                                                                                                       GSE13547_WT_VS_ZFX_KO_BCELL_DN, GSE13547_WT_VS_ZFX_KO_BCELL_DN
                                                                                                                       GSE17974_0H_VS_2H_IN_VITRO_ACT_CD4_TCELL_DN, GSE17974_0H_VS_2H_IN_VITRO_ACT_CD4_TCELL_DN
                                                                                                                       GSE360 L DONOVANI VS B MALAYI LOW DOSE DC DN, GSE360 L DONOVANI VS B MALAYI LOW DOSE DC DN
                                                                                                                       GSE23505_UNTREATED_VS_4DAY_IL6_IL1_TGFB_TREATED_CD4_TCELL_UP, GSE23505_UNTREATED_VS_4DAY_IL6_IL1_TGFB_TREATED_CD4_TCELL_UP
                                                                                                                       GSE17721_CTRL_VS_PAM3CSK4_0.5H_BMDC_UP, GSE17721_CTRL_VS_PAM3CSK4_0.5H_BMDC_UP
                                                                                                                       GSE5099_DAY3_VS_DAY7_MCSF_TREATED_MACROPHAGE_DN, GSE5099_DAY3_VS_DAY7_MCSF_TREATED_MACROPHAGE_DN
                                                                                                                       GSE14308_TH17_VS_NATURAL_TREG_UP, GSE14308_TH17_VS_NATURAL_TREG_UP
                                                                                                                       GSE1460_CORD_VS_ADULT_BLOOD_NAIVE_CD4_TCELL_UP, GSE1460_CORD_VS_ADULT_BLOOD_NAIVE_CD4_TCELL_UP
                                                                                                                       GSE11961_MEMORY_BCELL_DAY7_VS_PLASMA_CELL_DAY7_DN, GSE11961_MEMORY_BCELL_DAY7_VS_PLASMA_CELL_DAY7_DN
                                                                                                                       GSE360_CTRL_VS_L_MAJOR_DC_UP, GSE360_CTRL_VS_L_MAJOR_DC_UP
                                                                                                                       GSE360_HIGH_DOSE_B_MALAYI_VS_M_TUBERCULOSIS_MAC_UP, GSE360_HIGH_DOSE_B_MALAYI_VS_M_TUBERCULOSIS_MAC_UP
                                                                                                                       GSE42088_UNINF_VS_LEISHMANIA_INF_DC_8H_UP, GSE42088_UNINF_VS_LEISHMANIA_INF_DC_8H_UP
                                                                                                                       GSE43955_10H_VS_60H_ACT_CD4_TCELL_UP, GSE43955_10H_VS_60H_ACT_CD4_TCELL_UP
                                                                                                                       GSE24574_BCL6_LOW_TFH_VS_NAIVE_CD4_TCELL_UP, GSE24574_BCL6_LOW_TFH_VS_NAIVE_CD4_TCELL_UP
                                                                                                                       GSE21033_3H_VS_12H_POLYIC_STIM_DC_UP, GSE21033_3H_VS_12H_POLYIC_STIM_DC_UP
                                                                                                                       GSE12198_CTRL_VS_HIGH_IL2_STIM_NK_CELL_DN, GSE12198_CTRL_VS_HIGH_IL2_STIM_NK_CELL_DN
                                                                                                                       GSE24634_TREG_VS_TCONV_POST_DAY10_IL4_CONVERSION_UP, GSE24634_TREG_VS_TCONV_POST_DAY10_IL4_CONVERSION_UP
                                                                                                                       GSE5589_LPS_VS_LPS_AND_IL10_STIM_IL6_KO_MACROPHAGE_180MIN_DN, GSE5589_LPS_VS_LPS_AND_IL10_STIM_IL6_KO_MACROPHAGE_180MIN_DN
                                                                                                                       GSE22886_NAIVE_BCELL_VS_BM_PLASMA_CELL_DN, GSE22886_NAIVE_BCELL_VS_BM_PLASMA_CELL_DN
                                                                                                                       GSE17721_CTRL_VS_PAM3CSK4_6H_BMDC_DN, GSE17721_CTRL_VS_PAM3CSK4_6H_BMDC_DN
                                                                                                                       GSE39820 TGFBETA1 VS TGFBETA3 IN IL6 IL23A TREATED CD4 TCELL UP, GSE39820 TGFBETA1 VS TGFBETA3 IN IL6 IL23A TREATED CD4 TCELL UP
                                                                                                                       GSE1432_6H_VS_24H_IFNG_MICROGLIA_UP, GSE1432_6H_VS_24H_IFNG_MICROGLIA_UP
                                                                                                                       GSE5589_IL6_KO_VS_IL10_KO_LPS_AND_IL10_STIM_MACROPHAGE_180MIN_DN, GSE5589_IL6_KO_VS_IL10_KO_LPS_AND_IL10_STIM_MACROPHAGE_180MIN_DN
                                                                                                                       GSE24634_IL4_VS_CTRL_TREATED_NAIVE_CD4_TCELL_DAY7_UP, GSE24634_IL4_VS_CTRL_TREATED_NAIVE_CD4_TCELL_DAY7_UP
                                                                                                                       GSE36527_CD69_NEG_VS_POS_TREG_CD62L_LOS_KLRG1_NEG_UP, GSE36527_CD69_NEG_VS_POS_TREG_CD62L_LOS_KLRG1_NEG_UP
                                                                                                                       GSE360 DC VS MAC L DONOVANI UP, GSE360 DC VS MAC L DONOVANI UP
                                                                                                                       GSE2770_IL12_AND_TGFB_VS_IL4_TREATED_ACT_CD4_TCELL_6H_DN, GSE2770_IL12_AND_TGFB_VS_IL4_TREATED_ACT_CD4_TCELL_6H_DN
                                                                                                                       GSE23505_UNTREATED_VS_4DAY_IL6_IL1_IL23_TREATED_CD4_TCELL_DN, GSE23505_UNTREATED_VS_4DAY_IL6_IL1_IL23_TREATED_CD4_TCELL_DN
                                                                                                                       GSE40666_WT_VS_STAT4_KO_CD8_TCELL_WITH_IFNA_STIM_90MIN_DN, GSE40666_WT_VS_STAT4_KO_CD8_TCELL_WITH_IFNA_STIM_90MIN_DN
                                                                                                                       GSE2706_UNSTIM_VS_8H_R848_DC_UP, GSE2706_UNSTIM_VS_8H_R848_DC_UP
                                                                                                                       GSE19888_ADENOSINE_A3R_INH_VS_ACT_WITH_INHIBITOR_PRETREATMENT_IN_MAST_CELL_DN, GSE19888_ADENOSINE_A3R_INH_VS_ACT_WITH_INHIBITOR_PRETREATMENT_IN_MAST_CELL_DN
                                                                                                                       GSE11924_TFH_VS_TH1_CD4_TCELL_DN, GSE11924_TFH_VS_TH1_CD4_TCELL_DN
                                                                                                                       GSE20366_TREG_VS_NAIVE_CD4_TCELL_DEC205_CONVERSION_DN, GSE20366_TREG_VS_NAIVE_CD4_TCELL_DEC205_CONVERSION_DN
                                                                                                                       SCHERER_PBMC_YF_VAX_AGE_18_40YO_ANYD_DN, SCHERER_PBMC_YF_VAX_AGE_18_40YO_ANYD_DN
                                                                                                                       GSE3720_UNSTIM_VS_LPS_STIM_VD1_GAMMADELTA_TCELL_UP, GSE3720_UNSTIM_VS_LPS_STIM_VD1_GAMMADELTA_TCELL_UP
                                                                                                                       GSE29615_CTRL_VS_LAIV_FLU_VACCINE_PBMC_UP, GSE29615_CTRL_VS_LAIV_FLU_VACCINE_PBMC_UP
                                                                                                                       GSE17721_LPS_VS_CPG_2H_BMDC_DN, GSE17721_LPS_VS_CPG_2H_BMDC_DN
                                                                                                                       GSE26030_UNSTIM_VS_RESTIM_TH17_DAY15_POST_POLARIZATION_UP, GSE26030_UNSTIM_VS_RESTIM_TH17_DAY15_POST_POLARIZATION_UP
                                                                                                                       GSE46606_IRF4_KO_VS_WT_CD40L_IL2_IL5_1DAY_STIMULATED_BCELL_UP, GSE46606_IRF4_KO_VS_WT_CD40L_IL2_IL5_1DAY_STIMULATED_BCELL_UP
                                                                                                                       GSE23505_UNTREATED_VS_4DAY_IL6_IL1_TREATED_CD4_TCELL_DN, GSE23505_UNTREATED_VS_4DAY_IL6_IL1_TREATED_CD4_TCELL_DN
                                                                                                                       GSE21063_WT_VS_NFATC1_KO_3H_ANTI_IGM_STIM_BCELL_UP, GSE21063_WT_VS_NFATC1_KO_3H_ANTI_IGM_STIM_BCELL_UP
                                                                                                                       GSE42021_TREG_PLN_VS_TREG_PRECURSORS_THYMUS_UP, GSE42021_TREG_PLN_VS_TREG_PRECURSORS_THYMUS_UP
                                                                                                                       GSE22886_CD8_TCELL_VS_BCELL_NAIVE_UP, GSE22886_CD8_TCELL_VS_BCELL_NAIVE_UP
                                                                                                                       GSE37605_C57BL6_VS_NOD_FOXP3_IRES_GFP_TREG_DN, GSE37605_C57BL6_VS_NOD_FOXP3_IRES_GFP_TREG_DN
                                                                                                                       GSE360 T GONDII VS B MALAYI HIGH DOSE DC DN, GSE360 T GONDII VS B MALAYI HIGH DOSE DC DN
                                                                                                                       GSE3982_MEMORY_CD4_TCELL_VS_BCELL_UP, GSE3982_MEMORY_CD4_TCELL_VS_BCELL_UP
                                                                                                                       GSE30153_LUPUS_VS_HEALTHY_DONOR_BCELL_DN, GSE30153_LUPUS_VS_HEALTHY_DONOR_BCELL_DN
                                                                                                                       GSE22886_DC_VS_MONOCYTE_UP, GSE22886_DC_VS_MONOCYTE_UP
                                                                                                                       GSE11924_TH1_VS_TH17_CD4_TCELL_DN, GSE11924_TH1_VS_TH17_CD4_TCELL_DN
                                                                                                                       GSE29618_LAIV_VS_TIV_FLU_VACCINE_DAY7_BCELL_UP, GSE29618_LAIV_VS_TIV_FLU_VACCINE_DAY7_BCELL_UP
                                                                                                                       GSE3337_4H_VS_16H_IFNG_IN_CD8POS_DC_DN, GSE3337_4H_VS_16H_IFNG_IN_CD8POS_DC_DN
                                                                                                                       GSE5589_WT_VS_IL10_KO_LPS_AND_IL6_STIM_MACROPHAGE_45MIN_UP, GSE5589_WT_VS_IL10_KO_LPS_AND_IL6_STIM_MACROPHAGE_45MIN_UP
                                                                                                                       GSE14415_INDUCED_TREG_VS_FOXP3_KO_INDUCED_TREG_UP, GSE14415_INDUCED_TREG_VS_FOXP3_KO_INDUCED_TREG_UP
                                                                                                                       GSE17721_CPG_VS_GARDIQUIMOD_8H_BMDC_UP, GSE17721_CPG_VS_GARDIQUIMOD_8H_BMDC_UP
                                                                                                                       GSE360_DC_VS_MAC_T_GONDII_UP, GSE360_DC_VS_MAC_T_GONDII_UP
                                                                                                                       GSE21670_STAT3_KO_VS_WT_CD4_TCELL_IL6_TREATED_DN, GSE21670_STAT3_KO_VS_WT_CD4_TCELL_IL6_TREATED_DN
                                                                                                                       GSE5503_LIVER_DC_VS_PLN_DC_ACTIVATED_ALLOGENIC_TCELL_UP, GSE5503_LIVER_DC_VS_PLN_DC_ACTIVATED_ALLOGENIC_TCELL_UP
                                                                                                                        GSE22589_HEALTHY_VS_SIV_INFECTED_DC_DN, GSE22589_HEALTHY_VS_SIV_INFECTED_DC_DN
                                                                                                                       GSE14308_TH1_VS_NAIVE_CD4_TCELL_DN, GSE14308_TH1_VS_NAIVE_CD4_TCELL_DN
                                                                                                                        GSE2826_WT_VS_XID_BCELL_DN, GSE2826_WT_VS_XID_BCELL_DN
                                                                                                                       GSE41176_UNSTIM_VS_ANTI_IGM_STIM_TAK1_KO_BCELL_24H_DN, GSE41176_UNSTIM_VS_ANTI_IGM_STIM_TAK1_KO_BCELL_24H_DN
                                                                                                                        GSE19888_CTRL_VS_A3R_ACTIVATION_MAST_CELL_DN, GSE19888_CTRL_VS_A3R_ACTIVATION_MAST_CELL_DN
                                                                                                                       GSE9239_CTRL_VS_TNF_INHIBITOR_TREATED_DC_UP, GSE9239_CTRL_VS_TNF_INHIBITOR_TREATED_DC_UP
                                                                                                                        GSE3982_BCELL_VS_CENT_MEMORY_CD4_TCELL_DN, GSE3982_BCELL_VS_CENT_MEMORY_CD4_TCELL_DN
                                                                                                                       GSE22589 HEALTHY VS HIV INFECTED DC DN, GSE22589 HEALTHY VS HIV INFECTED DC DN
                                                                                                                       GSE36078_UNTREATED_VS_AD5_INF_MOUSE_LUNG_DC_UP, GSE36078_UNTREATED_VS_AD5_INF_MOUSE_LUNG_DC_UP
                                                                                                                       GSE29615_CTRL_VS_DAY3_LAIV_IFLU_VACCINE_PBMC_UP, GSE29615_CTRL_VS_DAY3_LAIV_IFLU_VACCINE_PBMC_UP
                                                                                                                       GSE41176_UNSTIM_VS_ANTI_IGM_STIM_TAK1_KO_BCELL_6H_UP, GSE41176_UNSTIM_VS_ANTI_IGM_STIM_TAK1_KO_BCELL_6H_UP
                                                                                                                       GSE43863_NAIVE_VS_MEMORY_TH1_CD4_TCELL_D150_LCMV_DN, GSE43863_NAIVE_VS_MEMORY_TH1_CD4_TCELL_D150_LCMV_DN
                                                                                                                       GSE17721_CTRL_VS_GARDIQUIMOD_6H_BMDC_DN, GSE17721_CTRL_VS_GARDIQUIMOD_6H_BMDC_DN
                                                                                                                       GSE22140_GERMFREE_VS_SPF_ARTHRITIC_MOUSE_CD4_TCELL_UP, GSE22140_GERMFREE_VS_SPF_ARTHRITIC_MOUSE_CD4_TCELL_UP
FEDCOMMON_DC_PROGENITOR_UP, GSE22432_PDC_VS_TGFB1_TREATEDCOMMON_DC_PROGENITOR_UP
                                                                                                                       GSE4748_CTRL_VS_LPS_STIM_DC_3H_UP, GSE4748_CTRL_VS_LPS_STIM_DC_3H_UP
                                                                                                                       GSE4590_LARGE_PRE_BCELL_VS_VPREB_POS_LARGE_PRE_BCELL_UP, GSE4590_LARGE_PRE_BCELL_VS_VPREB_POS_LARGE_PRE_BCELL_UP
                                                                                                                       GSE3982_MAST_CELL_VS_TH1_UP, GSE3982_MAST_CELL_VS_TH1_UP
                                                                                                                       GSE24671_CTRL_VS_BAKIMULC_INFECTED_MOUSE_SPLENOCYTES_DN, GSE24671_CTRL_VS_BAKIMULC_INFECTED_MOUSE_SPLENOCYTES_DN
                                                                                                                       GSE19923_E2A_KO_VS_HEB_AND_E2A_KO_DP_THYMOCYTE_UP, GSE19923_E2A_KO_VS_HEB_AND_E2A_KO_DP_THYMOCYTE_UP
                                                                                                                       GSE36476_YOUNG_VS_OLD_DONOR_MEMORY_CD4_TCELL_DN, GSE36476_YOUNG_VS_OLD_DONOR_MEMORY_CD4_TCELL_DN
                                                                                                                       GSE10240 CTRL VS IL17 AND IL22 STIM PRIMARY BRONCHIAL EPITHELIAL CELLS DN, GSE10240 CTRL VS IL17 AND IL22 STIM PRIMARY BRONCHIAL EPITHELIAL CELLS DN
                                                                                                                        GSE24634_TEFF_VS_TCONV_DAY5_IN_CULTURE_DN, GSE24634_TEFF_VS_TCONV_DAY5_IN_CULTURE_DN
                                                                                                                        GSE360_L_DONOVANI_VS_M_TUBERCULOSIS_MAC_UP, GSE360_L_DONOVANI_VS_M_TUBERCULOSIS_MAC_UP
                                                                                                                        GSE11057_EFF_MEM_VS_CENT_MEM_CD4_TCELL_UP, GSE11057_EFF_MEM_VS_CENT_MEM_CD4_TCELL_UP
                                                                                                                        GSE27786_NKCELL_VS_MONO_MAC_DN, GSE27786_NKCELL_VS_MONO_MAC_DN
                                                                                                                       GSE19941_UNSTIM_VS_LPS_AND_IL10_STIM_IL10_KO_NFKBP50_KO_MACROPHAGE_UP, GSE19941_UNSTIM_VS_LPS_AND_IL10_STIM_IL10_KO_NFKBP50_KO_MACROPHAGE_UP
                                                                                                                        GSE360_L_MAJOR_VS_M_TUBERCULOSIS_DC_UP, GSE360_L_MAJOR_VS_M_TUBERCULOSIS_DC_UP
                                                                                                                       GSE11961_GERMINAL_CENTER_BCELL_DAY7_VS_MEMORY_BCELL_DAY40_DN, GSE11961_GERMINAL_CENTER_BCELL_DAY7_VS_MEMORY_BCELL_DAY40_DN
                                                                                                                       GSE43863 NAIVE VS TH1 EFF CD4 TCELL D6 LCMV DN, GSE43863 NAIVE VS TH1 EFF CD4 TCELL D6 LCMV DN
                                                                                                                        GSE12003 MIR223 KO VS WT BM PROGENITOR 4D CULTURE DN, GSE12003 MIR223 KO VS WT BM PROGENITOR 4D CULTURE DN
                                                                                                                        GSE17721 CTRL VS GARDIQUIMOD 4H BMDC DN, GSE17721 CTRL VS GARDIQUIMOD 4H BMDC DN
                                                                                                                        GSE43955_1H_VS_10H_ACT_CD4_TCELL_WITH_TGFB_IL6_DN, GSE43955_1H_VS_10H_ACT_CD4_TCELL_WITH_TGFB_IL6_DN
                                                                                                                       GSE6092_UNSTIM_VS_IFNG_STIM_AND_B_BURGDORFERI_INF_ENDOTHELIAL_CELL_DN, GSE6092_UNSTIM_VS_IFNG_STIM_AND_B_BURGDORFERI_INF_ENDOTHELIAL_CELL_DN
                                                                                                                       GSE13522_CTRL_VS_T_CRUZI_BRAZIL_STRAIN_INF_SKIN_DN, GSE13522_CTRL_VS_T_CRUZI_BRAZIL_STRAIN_INF_SKIN_DN
                                                                                                                       GSE17721_CTRL_VS_PAM3CSK4_1H_BMDC_DN, GSE17721_CTRL_VS_PAM3CSK4_1H_BMDC_DN
                                                                                                                       GSE3982_EFF_MEMORY_CD4_TCELL_VS_TH2_UP, GSE3982_EFF_MEMORY_CD4_TCELL_VS_TH2_UP
                                                                                                                       GSE8621_UNSTIM_VS_LPS_STIM_MACROPHAGE_UP, GSE8621_UNSTIM_VS_LPS_STIM_MACROPHAGE_UP
                                                                                                                       GSE29618_LAIV_VS_TIV_FLU_VACCINE_DAY7_MONOCYTE_DN, GSE29618_LAIV_VS_TIV_FLU_VACCINE_DAY7_MONOCYTE_DN
                                                                                                                       GSE12366_NAIVE_VS_MEMORY_BCELL_UP, GSE12366_NAIVE_VS_MEMORY_BCELL_UP
                                                                                                                       GSE40685_NAIVE_CD4_TCELL_VS_FOXP3_KO_TREG_PRECURSOR_DN, GSE40685_NAIVE_CD4_TCELL_VS_FOXP3_KO_TREG_PRECURSOR_DN
                                                                                                                       GSE7831_UNSTIM_VS_INFLUENZA_STIM_PDC_4H_UP, GSE7831_UNSTIM_VS_INFLUENZA_STIM_PDC_4H_UP
                                                                                                                       GSE40666_WT_VS_STAT4_KO_CD8_TCELL_WITH_IFNA_STIM_90MIN_UP, GSE40666_WT_VS_STAT4_KO_CD8_TCELL_WITH_IFNA_STIM_90MIN_UP
                                                                                                                       GSE6259 FLT3L INDUCED DEC205 POS DC VS BCELL UP, GSE6259 FLT3L INDUCED DEC205 POS DC VS BCELL UP
                                                                                                                       GSE17721_LPS_VS_CPG_4H_BMDC_UP, GSE17721_LPS_VS_CPG_4H_BMDC_UP
                                                                                                                       GSE17580_TREG_VS_TEFF_S_MANSONI_INF_DN, GSE17580_TREG_VS_TEFF_S_MANSONI_INF_DN
                                                                                                                       GSE3982_NEUTROPHIL_VS_TH1_UP, GSE3982_NEUTROPHIL_VS_TH1_UP
                                                                                                                       GSE37301 GRANULOCYTE MONOCYTE PROGENITOR VS RAG2 KO NK CELL DN, GSE37301 GRANULOCYTE MONOCYTE PROGENITOR VS RAG2 KO NK CELL DN
                                                                                                                       GSE22886_NAIVE_VS_MEMORY_TCELL_UP, GSE22886_NAIVE_VS_MEMORY_TCELL_UP
                                                                                                                       GSE28737_WT_VS_BCL6_KO_MARGINAL_ZONE_BCELL_UP, GSE28737_WT_VS_BCL6_KO_MARGINAL_ZONE_BCELL_UP
                                                                                                                       GSE23925_DARK_ZONE_VS_NAIVE_BCELL_DN, GSE23925_DARK_ZONE_VS_NAIVE_BCELL_DN
                                                                                                                       GSE20715_0H_VS_48H_OZONE_LUNG_UP, GSE20715_0H_VS_48H_OZONE_LUNG_UP
                                                                                                                       GSE5589_WT_VS_IL6_KO_LPS_AND_IL6_STIM_MACROPHAGE_45MIN_UP, GSE5589_WT_VS_IL6_KO_LPS_AND_IL6_STIM_MACROPHAGE_45MIN_UP
                                                                                                                       GSE25088 CTRL VS IL4 STIM MACROPHAGE DN, GSE25088 CTRL VS IL4 STIM MACROPHAGE DN
                                                                                                                       GSE13547_CTRL_VS_ANTI_IGM_STIM_ZFX_KO_BCELL_12H_DN, GSE13547_CTRL_VS_ANTI_IGM_STIM_ZFX_KO_BCELL_12H_DN
                                                                                                                       GSE17721_LPS_VS_PAM3CSK4_16H_BMDC_UP, GSE17721_LPS_VS_PAM3CSK4_16H_BMDC_UP
                                                                                                                       GSE25123 WT_VS_PPARG_KO_MACROPHAGE_IL4_AND_ROSIGLITAZONE_STIM_UP, GSE25123 WT_VS_PPARG_KO_MACROPHAGE_IL4_AND_ROSIGLITAZONE_STIM_UP
                                                                                                                       GSE19941_UNSTIM_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_UP, GSE19941_UNSTIM_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_UP
                                                                                                                       GSE7460_TCONV_VS_TREG_LN_UP, GSE7460_TCONV_VS_TREG_LN_UP
                                                                                                                       GSE13485_CTRL_VS_DAY3_YF17D_VACCINE_PBMC_UP, GSE13485_CTRL_VS_DAY3_YF17D_VACCINE_PBMC_UP
                                                                                                                       GSE28783_ANTI_MIR33_VS_CTRL_ATHEROSCLEROSIS_MACROPHAGE_UP, GSE28783_ANTI_MIR33_VS_CTRL_ATHEROSCLEROSIS_MACROPHAGE_UP
                                                                                                                       GSE36392_MAC_VS_NEUTROPHIL_IL25_TREATED_LUNG_DN, GSE36392_MAC_VS_NEUTROPHIL_IL25_TREATED_LUNG_DN
                                                                                                                       GSE17721 CTRL VS POLYIC 0.5H BMDC DN, GSE17721 CTRL VS POLYIC 0.5H BMDC DN
                                                                                                                       GSE20500_RETINOIC_ACID_VS_RARA_ANTAGONIST_TREATED_CD4_TCELL_UP, GSE20500_RETINOIC_ACID_VS_RARA_ANTAGONIST_TREATED_CD4_TCELL_UP
                                                                                                                       GSE17721_POLYIC_VS_PAM3CSK4_0.5H_BMDC_UP, GSE17721_POLYIC_VS_PAM3CSK4_0.5H_BMDC_UP
                                                                                                                       GSE37301_PRO_BCELL_VS_GRANULOCYTE_MONOCYTE_PROGENITOR_DN, GSE37301_PRO_BCELL_VS_GRANULOCYTE_MONOCYTE_PROGENITOR_DN
                                                                                                                       GSE28783_ANTI_MIR33_VS_CTRL_ATHEROSCLEROSIS_MACROPHAGE_DN, GSE28783_ANTI_MIR33_VS_CTRL_ATHEROSCLEROSIS_MACROPHAGE_DN
                                                                                                                       GSE43957_UNTREATED_VS_NACL_TREATED_ANTI_CD3_CD28_STIM_CD4_TCELL_UP, GSE43957_UNTREATED_VS_NACL_TREATED_ANTI_CD3_CD28_STIM_CD4_TCELL_UP
                                                                                                                       GSE2770 UNTREATED VS TGFB AND IL12 TREATED ACT CD4 TCELL 2H UP, GSE2770 UNTREATED VS TGFB AND IL12 TREATED ACT CD4 TCELL 2H UP
                                                                                                                       GSE24574_BCL6_HIGH_TFH_VS_TCONV_CD4_TCELL_DN, GSE24574_BCL6_HIGH_TFH_VS_TCONV_CD4_TCELL_DN
                                                                                                                       GSE10239_MEMORY_VS_KLRG1INT_EFF_CD8_TCELL_UP, GSE10239_MEMORY_VS_KLRG1INT_EFF_CD8_TCELL_UP
                                                                                                                       GSE29949 MICROGLIA BRAIN VS CD8 NEG DC SPLEEN DN, GSE29949 MICROGLIA BRAIN VS CD8 NEG DC SPLEEN DN
                                                                                                                       GSE11961_FOLLICULAR_BCELL_VS_MARGINAL_ZONE_BCELL_UP, GSE11961_FOLLICULAR_BCELL_VS_MARGINAL_ZONE_BCELL_UP
                                                                                                                       GSE21033_CTRL_VS_POLYIC_STIM_DC_6H_DN, GSE21033_CTRL_VS_POLYIC_STIM_DC_6H_DN
                                                                                                                      GSE5542_UNTREATED_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_6H_UP, GSE5542_UNTREATED_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_6H_UP
                                                                                                                       GSE25087_FETAL_VS_ADULT_TREG_DN, GSE25087_FETAL_VS_ADULT_TREG_DN
                                                                                                                       GARCIA_PINERES_PBMC_HPV_16_L1_VLP_AGE_18_25YO_STIMULATED_VS_UNSTIMULATED_0DY_VACCINATION_INDEPENDENT_DN, GARCIA_PINERES_PBMC_HPV_16_L1_VLP_AGE_18_25YO_STIMULATED_VS_UNSTIMULATED_0DY_VACCINATION_INDEPENDENT_DN
                                                                                                                       GSE37336_LY6C_POS_VS_NEG_NAIVE_CD4_TCELL_DN, GSE37336_LY6C POS VS NEG NAIVE CD4 TCELL DN
                                                                                                                       GSE9878_CTRL_VS_EBF_TRANSDUCED_PAX5_KO_PRO_BCELL_UP, GSE9878_CTRL_VS_EBF_TRANSDUCED_PAX5_KO_PRO_BCELL_UP
                                                                                                                       GSE5455_HEALTHY_VS_TUMOR_BEARING_MOUSE_SPLEEN_MONOCYTE_UP, GSE5455_HEALTHY_VS_TUMOR_BEARING_MOUSE_SPLEEN_MONOCYTE_UP
                                                                                                                       GSE4590 SMALL VS VPREB POS LARGE PRE BCELL DN, GSE4590 SMALL VS VPREB POS LARGE PRE BCELL DN
                                                                                                                       GSE22601_DOUBLE_NEGATIVE_VS_DOUBLE_POSITIVE_THYMOCYTE_UP, GSE22601_DOUBLE_NEGATIVE_VS_DOUBLE_POSITIVE_THYMOCYTE_UP
                                                                                                                       GSE18281 SUBCAPSULAR CORTICAL REGION VS WHOLE MEDULLA THYMUS DN, GSE18281 SUBCAPSULAR CORTICAL REGION VS WHOLE MEDULLA THYMUS DN
                                                                                                                       GSE22886_NAIVE_TCELL_VS_MONOCYTE_UP, GSE22886_NAIVE_TCELL_VS_MONOCYTE_UP
                                                                                                                       GSE16385_ROSIGLITAZONE_IL4_VS_ROSIGLITAZONE_ALONE_STIM_MACROPHAGE_UP, GSE16385_ROSIGLITAZONE_IL4_VS_ROSIGLITAZONE_ALONE_STIM_MACROPHAGE_UP
                                                                                                                       GSE5542_IFNG_VS_IFNA_TREATED_EPITHELIAL_CELLS_24H_DN, GSE5542_IFNG_VS_IFNA_TREATED_EPITHELIAL_CELLS_24H_DN
                                                                                                                       GSE3982_EOSINOPHIL_VS_MAST_CELL_UP, GSE3982_EOSINOPHIL_VS_MAST_CELL_UP
                                                                                                                       GSE1925_CTRL_VS_IFNG_PRIMED_MACROPHAGE_24H_IFNG_STIM_UP, GSE1925_CTRL_VS_IFNG_PRIMED_MACROPHAGE_24H_IFNG_STIM_UP
                                                                                                                       GSE8515 CTRL VS IL6 4H STIM MAC DN, GSE8515 CTRL VS IL6 4H STIM MAC DN
                                                                                                                       GSE40274_LEF1_VS_FOXP3_AND_LEF1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN, GSE40274_LEF1_VS_FOXP3_AND_LEF1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN
                                                                                                                       GSE13306_TREG_VS_TCONV_UP, GSE13306_TREG_VS_TCONV_UP
                                                                                                                       GSE15930_NAIVE_VS_24H_IN_VITRO_STIM_INFAB_CD8_TCELL_UP, GSE15930_NAIVE_VS_24H_IN_VITRO_STIM_INFAB_CD8_TCELL_UP
                                                                                                                       GSE16385_UNTREATED_VS_12H_IFNG_TNF_TREATED_MACROPHAGE_UP, GSE16385_UNTREATED_VS_12H_IFNG_TNF_TREATED_MACROPHAGE_UP
                                                                                                                       GSE3982_MAST_CELL_VS_CENT_MEMORY_CD4_TCELL_DN, GSE3982_MAST_CELL_VS_CENT_MEMORY_CD4_TCELL_DN
                                                                                                                       GSE13522_CTRL_VS_T_CRUZI_G_STRAIN_INF_SKIN_DN, GSE13522_CTRL_VS_T_CRUZI_G_STRAIN_INF_SKIN_DN
                                                                                                                       GSE41176_UNSTIM_VS_ANTI_IGM_STIM_TAK1_KO_BCELL_1H_DN, GSE41176_UNSTIM_VS_ANTI_IGM_STIM_TAK1_KO_BCELL_1H_DN
                                                                                                                       GSE34156_NOD2_LIGAND_VS_NOD2_AND_TLR1_TLR2_LIGAND_6H_TREATED_MONOCYTE_DN, GSE34156_NOD2_LIGAND_VS_NOD2_AND_TLR1_TLR2_LIGAND_6H_TREATED_MONOCYTE_DN
                                                                                                                       GSE16450 CTRL VS IFNA 12H STIM MATURE NEURON CELL LINE UP, GSE16450 CTRL VS IFNA 12H STIM MATURE NEURON CELL LINE UP
                                                                                                                       GSE46242_CTRL_VS_EGR2_DELETED_TH1_CD4_TCELL_DN, GSE46242_CTRL_VS_EGR2_DELETED_TH1_CD4_TCELL_DN
                                                                                                                       GSE41867_LCMV_ARMSTRONG_VS_CLONE13_DAY15_EFFECTOR_CD8_TCELL_DN, GSE41867_LCMV_ARMSTRONG_VS_CLONE13_DAY15_EFFECTOR_CD8_TCELL_DN
                                                                                                                       GSE3982_MAC_VS_EFF_MEMORY_CD4_TCELL_DN, GSE3982_MAC_VS_EFF_MEMORY_CD4_TCELL_DN
                                                                                                                       GSE22935_UNSTIM_VS_24H_MBOVIS_BCG_STIM_MACROPHAGE_UP, GSE22935_UNSTIM_VS_24H_MBOVIS_BCG_STIM_MACROPHAGE_UP
                                                                                                                       GSE3720_VD1_VS_VD2_GAMMADELTA_TCELL_UP, GSE3720_VD1_VS_VD2_GAMMADELTA_TCELL_UP
                                                                                                                       GSE20727_DNFB_ALLERGEN_VS_ROS_INH_AND_DNFB_ALLERGEN_TREATED_DC_UP, GSE20727_DNFB_ALLERGEN_VS_ROS_INH_AND_DNFB_ALLERGEN_TREATED_DC_UP
                                                                                                                       GSE43955_1H_VS_10H_ACT_CD4_TCELL_WITH_TGFB_IL6_UP, GSE43955_1H_VS_10H_ACT_CD4_TCELL_WITH_TGFB_IL6_UP
                                                                                                                       GSE27786_NKCELL_VS_NEUTROPHIL_DN, GSE27786_NKCELL_VS_NEUTROPHIL_DN
                                                                                                                       GSE7459 UNTREATED VS IL6 TREATED ACT CD4 TCELL UP, GSE7459 UNTREATED VS IL6 TREATED ACT CD4 TCELL UP
                                                                                                                      GSE1460_DP_THYMOCYTE_VS_NAIVE_CD4_TCELL_CORD_BLOOD_DN, GSE1460_DP_THYMOCYTE_VS_NAIVE_CD4_TCELL_CORD_BLOOD_DN
                                                                                                                       GSE22886_UNSTIM_VS_IL15_STIM_NKCELL_UP, GSE22886_UNSTIM_VS_IL15_STIM_NKCELL_UP
                                                                                                                      GSE2585_THYMIC_DC_VS_MTEC_DN, GSE2585_THYMIC_DC_VS_MTEC_DN
                                                                                                                       GSE4142_NAIVE_VS_MEMORY_BCELL_DN, GSE4142_NAIVE_VS_MEMORY_BCELL_DN
                                                                                                                       GSE12707_AT16L1_HYPOMORPH_VS_WT_THYMUS_DN, GSE12707_AT16L1_HYPOMORPH_VS_WT_THYMUS_DN
                                                                                                                       GSE22025_UNTREATED_VS_TGFB1_AND_PROGESTERONE_TREATED_CD4_TCELL_UP, GSE22025_UNTREATED_VS_TGFB1_AND_PROGESTERONE_TREATED_CD4_TCELL_UP
                                                                                                                       GSE29618_PRE_VS_DAY7_FLU_VACCINE_BCELL_UP, GSE29618_PRE_VS_DAY7_FLU_VACCINE_BCELL_UP
                                                                                                                       BUCASAS_PBMC_FLUARIX_FLUVIRIN_CAUCASIAN_MALE_AGE_18_40YO_LOW_RESPONDERS_1DY_POSITIVE_PREDICTIVE_OF_TITER, BUCASAS_PBMC_FLUARIX_FLUVIRIN_CAUCASIAN_MALE_AGE_18_40YO_LOW_RESPONDERS_1DY_POSITIVE_PREDICTIVE_OF_TITER
                                                                                                                      GSE17721_LPS_VS_GARDIQUIMOD_12H_BMDC_UP, GSE17721_LPS_VS_GARDIQUIMOD_12H_BMDC_UP
                                                                                                                       GSE45365_WT_VS_IFNAR_KO_BCELL_MCMV_INFECTION_DN, GSE45365_WT_VS_IFNAR_KO_BCELL_MCMV_INFECTION_DN
                                                                                                                       GSE36078_UNTREATED_VS_AD5_INF_IL1R_KO_MOUSE_LUNG_DC_UP, GSE36078_UNTREATED_VS_AD5_INF_IL1R_KO_MOUSE_LUNG_DC_UP
                                                                                                                       GSE28783_CTRL_ANTI_MIR_VS_UNTREATED_ATHEROSCLEROSIS_MACROPHAGE_UP, GSE28783_CTRL_ANTI_MIR_VS_UNTREATED_ATHEROSCLEROSIS_MACROPHAGE_UP
                                                                                                                       GSE1448_ANTI_VALPHA2_VS_VBETA5_DP_THYMOCYTE_DN, GSE1448_ANTI_VALPHA2_VS_VBETA5_DP_THYMOCYTE_DN
                                                                                                                       GSE25088_CTRL_VS_ROSIGLITAZONE_STIM_STAT6_KO_MACROPHAGE_UP, GSE25088_CTRL_VS_ROSIGLITAZONE_STIM_STAT6_KO_MACROPHAGE_UP
                                                                                                                       GSE42021_CD24HI_VS_CD24INT_TCONV_THYMUS_UP, GSE42021_CD24HI_VS_CD24INT_TCONV_THYMUS_UP
                                                                                                                       GSE27786_LIN_NEG_VS_ERYTHROBLAST_DN, GSE27786_LIN_NEG_VS_ERYTHROBLAST_DN
                                                                                                                       GSE17721_PAM3CSK4_VS_GADIQUIMOD_4H_BMDC_DN, GSE17721_PAM3CSK4_VS_GADIQUIMOD_4H_BMDC_DN
                                                                                                                       GSE43955_TH0_VS_TGFB_IL6_TH17_ACT_CD4_TCELL_42H_DN, GSE43955_TH0_VS_TGFB_IL6_TH17_ACT_CD4_TCELL_42H_DN
                                                                                                                       OVSYANNIKOVA PBMC FLUARIX AGE 50 74YO COMMON_WITH_BOTH_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_RESPONSE_MODELS_UP, OVSYANNIKOVA_PBMC_FLUARIX_AGE 50 74YO COMMON_WITH_BOTH_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_28DY_VS_3DY_USED_IN_HAI_AND_VNA_4
                                                                                                                       GSE12505_WT_VS_E2_2_HET_PDC_UP, GSE12505_WT_VS_E2_2_HET_PDC_UP
                                                                                                                       GSE22527_ANTI_CD3_INVIVO_VS_UNTREATED_MOUSE_TREG_UP, GSE22527_ANTI_CD3_INVIVO_VS_UNTREATED_MOUSE_TREG_UP
                                                                                                                       GSE13306_TREG_VS_TCONV_SPLEEN_UP, GSE13306_TREG_VS_TCONV_SPLEEN_UP
                                                                                                                       GSE29615_CTRL_VS_LAIV_FLU_VACCINE_PBMC_DN, GSE29615_CTRL_VS_LAIV_FLU_VACCINE_PBMC_DN
                                                                                                                       GSE2826_XID_VS_BTK_KO_BCELL_DN, GSE2826_XID_VS_BTK_KO_BCELL_DN
                                                                                                                       GSE12839_CTRL_VS_IL12_TREATED_PBMC_DN, GSE12839_CTRL_VS_IL12_TREATED_PBMC_DN
                                                                                                                       GSE7596_AKT_TRANSD_VS_CTRL_CD4_TCONV_WITH_TGFB_DN, GSE7596_AKT_TRANSD_VS_CTRL_CD4_TCONV_WITH_TGFB_DN
                                                                                                                       GSE45365_NK_CELL_VS_CD8A_DC_UP, GSE45365_NK_CELL_VS_CD8A_DC_UP
                                                                                                                       GSE2585_AIRE_KO_VS_WT_CD80_LOW_MTEC_UP, GSE2585_AIRE_KO_VS_WT_CD80_LOW_MTEC_UP
                                                                                                                      GSE19888_ADENOSINE_A3R_ACT_VS_TCELL_MEMBRANES_ACT_IN_MAST_CELL_UP, GSE19888_ADENOSINE_A3R_ACT_VS_TCELL_MEMBRANES_ACT_IN_MAST_CELL_UP
                                                                                                                       GSE13522_CTRL_VS_T_CRUZI_BRAZIL_STRAIN_INF_SKIN_UP, GSE13522_CTRL_VS_T_CRUZI_BRAZIL_STRAIN_INF_SKIN_UP
                                                                                                                       GSE4590_PRE_BCELL_VS_VPREB_POS_LARGE_PRE_BCELL_UP, GSE4590_PRE_BCELL_VS_VPREB_POS_LARGE_PRE_BCELL_UP
                                                                                                                       GSE10422_WT_VS_BAFF_TRANSGENIC_LN_BCELL_DN, GSE10422_WT_VS_BAFF_TRANSGENIC_LN_BCELL_DN
                                                                                                                       GSE15659_NAIVE_CD4_TCELL_VS_ACTIVATED_TREG_DN, GSE15659_NAIVE_CD4_TCELL_VS_ACTIVATED_TREG_DN
                                                                                                                       GSE26488_WT_VS_HDAC7_DELTAP_TG_OT2_THYMOCYTE_WITH_PEPTIDE_INJECTION_UP, GSE26488_WT_VS_HDAC7_DELTAP_TG_OT2_THYMOCYTE_WITH_PEPTIDE_INJECTION_UP
                                                                                                                       GSE8515_CTRL_VS_IL1_4H_STIM_MAC_UP, GSE8515_CTRL_VS_IL1_4H_STIM_MAC_UP
                                                                                                                       GSE43955_1H_VS_20H_ACT_CD4_TCELL_DN, GSE43955_1H_VS_20H_ACT_CD4_TCELL_DN
                                                                                                                       GSE37605_C57BL6_VS_NOD_FOXP3_IRES_GFP_TCONV_UP, GSE37605_C57BL6_VS_NOD_FOXP3_IRES_GFP_TCONV_UP
                                                                                                                       GSE29949 DC BRAIN_VS_MONOCYTE_BONE_MARROW_DN, GSE29949_DC_BRAIN_VS_MONOCYTE_BONE_MARROW_DN
                                                                                                                       GSE12963_UNINF_VS_ENV_AND_NEF_DEFICIENT_HIV1_INF_CD4_TCELL_DN, GSE12963_UNINF_VS_ENV_AND_NEF_DEFICIENT_HIV1_INF_CD4_TCELL_DN
                                                                                                                       GSE21063_CTRL_VS_ANTI_IGM_STIM_BCELL_8H_DN, GSE21063_CTRL_VS_ANTI_IGM_STIM_BCELL_8H_DN
                                                                                                                       GSE18148_CBFB_KO_VS_WT_TREG_DN, GSE18148_CBFB_KO_VS_WT_TREG_DN
                                                                                                                       GSE2585_CTEC_VS_THYMIC_DC_DN, GSE2585_CTEC_VS_THYMIC_DC_DN
                                                                                                                       GSE9006_HEALTHY_VS_TYPE_1_DIABETES_PBMC_1MONTH_POST_DX_DN, GSE9006_HEALTHY_VS_TYPE_1_DIABETES_PBMC_1MONTH_POST_DX_DN
                                                                                                                       GSE21033_3H_VS_12H_POLYIC_STIM_DC_DN, GSE21033_3H_VS_12H_POLYIC_STIM_DC_DN
                                                                                                                       GSE1566_WT_VS_EZH2_KO_LN_TCELL_DN, GSE1566_WT_VS_EZH2_KO_LN_TCELL_DN
                                                                                                                       GSE20715_0H_VS_48H_OZONE_TLR4_KO_LUNG_UP, GSE20715_0H_VS_48H_OZONE_TLR4_KO_LUNG_UP
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GSE41867_NAIVE_VS_EFFECTOR_CD8_TCELL_DN, GSE41867_NAIVE_VS_EFFECTOR_CD8_TCELL_DN

GSE31082_DN_VS_DP_THYMOCYTE_UP, GSE31082_DN_VS_DP_THYMOCYTE_UP

GSE10239_KLRG1INT_VS_KLRG1HIGH_EFF_CD8_TCELL_UP, GSE10239_KLRG1INT_VS_KLRG1HIGH_EFF_CD8_TCELL_UP

THAKAR_PBMC_INACTIVATED_INFLUENZA_AGE_21_30YO_VS_70PLS_0DY_UP, THAKAR_PBMC_INACTIVATED_INFLUENZA_AGE_21_30YO_VS_70PLS_0DY_UP GSE43955_TH0_VS_TGFB_IL6_TH17_ACT_CD4_TCELL_1H_DN GSE43955_TH0_VS_TGFB_IL6_TH17_ACT_CD4_TCELL_1H_DN GSE19941_LPS_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_DN, GSE19941_LPS_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_DN GSE15930_NAIVE_VS_48H_IN_VITRO_STIM_IFNAB_CD8_TCELL_UP, GSE15930_NAIVE_VS_48H_IN_VITRO_STIM_IFNAB_CD8_TCELL_UP, GSE5542_IFNG_VS_IFNA_TREATED_EPITHELIAL_CELLS_6H_DN GSE5542_IFNG_VS_IFNA_TREATED_EPITHELIAL_CELLS_6H_DN GSE19772_HCMV_INFL_VS_HCMV_INFL_VS_HCMV_INF_MONOCYTES_AND_PI3K_INHIBITION_UP, GSE19772_HCMV_INFL_VS_HCMV_INF_MONOCYTES_AND_PI3K_INHIBITION_UP GSE40274_CTRL_VS_FOXP3_AND_SATB1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN GSE3982_EFF_MEMORY_CD4_TCELL_VS_NKCELL_UP GSE3982_EFF_MEMORY_CD4_TCELL_VS_NKCELL_UP GSE3982_WT_VS_IFNG_KO_SKING_T_CRUZI_Y_STRAIN_INF_DN

GSE29164_DAY3_VS_DAY7_CD8_TCELL_AND_IL12_TREATED_MELANOMA_DN, GSE29164_DAY3_VS_DAY7_CD8_TCELL_AND_IL12_TREATED_MELANOMA_DN

GSE21546_UNSTIM_VS_ANTI_CD3_STIM_SAP1A_KO_DP_THYMOCYTES_DN, GSE21546_UNSTIM_VS_ANTI_CD3_STIM_SAP1A_KO_DP_THYMOCYTES_DN

GSE5503_LIVER_DC_VS_MLN_DC_ACTIVATED_ALLOGENIC_TCELL_UP, GSE5503_LIVER_DC_VS_MLN_DC_ACTIVATED_ALLOGENIC_TCELL_UP

GSE16385 UNTREATED VS 12H IL4 TREATED MACROPHAGE DN, GSE16385 UNTREATED VS 12H IL4 TREATED MACROPHAGE DN

GSE17721_CTRL_VS_POLYIC_2H_BMDC_DN, GSE17721_CTRL_VS_POLYIC_2H_BMDC_DN

GSE19923_WT_VS_HEB_KO_DP_THYMOCYTE_UP, GSE19923_WT_VS_HEB_KO_DP_THYMOCYTE_UP

GSE45365_NK_CELL_VS_BCELL_DN, GSE45365_NK_CELL_VS_BCELL_DN

GSE22025_UNTREATED_VS_TGFB1_TREATED_CD4_TCELL_DN, GSE22025_UNTREATED_VS_TGFB1_TREATED_CD4_TCELL_DN

GSE29949_CD8_NEG_DC_SPLEEN_VS_CD8_POS_DC_SPLEEN_DN, GSE29949_CD8_NEG_DC_SPLEEN_VS_CD8_POS_DC_SPLEEN_DN

GSE26928_EFF_MEMORY_VS_CXCR5_POS_CD4_TCELL_UP, GSE26928_EFF_MEMORY_VS_CXCR5_POS_CD4_TCELL_UP

GSE29614 CTRL VS TIV FLU VACCINE PBMC 2007 DN, GSE29614 CTRL VS TIV FLU VACCINE PBMC 2007 DN

GSE45365_HEALTHY_VS_MCMV_INFECTION_CD8_TCELL_IFNAR_KO_UP, GSE45365_HEALTHY_VS_MCMV_INFECTION_CD8_TCELL_IFNAR_KO_UP

MATSUMIYA_BLOOD_MODIFIED_VACCINIA_ANKARA_VACCINE_AGE_4_6MO_VACCINATED_VS_CANDIN_PLACEBO_BCG_PRIMED_1DY_DN, MATSUMIYA_BCD_VACCINATED_VS_CANDIN_PLACEBO_BCG_PRIMED_1DY_DN, MATSUMIYA_BCD_BCG_PRIMED_1DY_DN, MATSUMIYA_BCD_BCG_PRIMED_1DY_DN, MATSUMIYA_BCD_BCG_PRIMED_1DY_DN, MATSUMIYA_BCD_BCG_PRIMED_1DY_DN, MATSUMIYA_

NAKAYA_PBMC_FLUARIX_FLUVIRIN_AGE_18_50YO_CORRELATED_WITH_HAI_28DY_RESPONSE_AT_7DY_POSITIVE, NAKAYA_PBMC_FLUARIX_FLUVIRIN_AGE_18_50YO_CORRELATED_WITH_HAI_28DY_RESPONSE_AT_7DY_POSITIVE