## GSE37532\_TREG\_VS\_TCONV\_PPARG\_KO\_CD4\_TCELL\_FROM\_LN\_UP, GSE37532\_TREG\_VS\_TCONV\_PPARG\_KO\_CD4\_TCELL\_FROM\_LN\_UP GSE17186\_BLOOD\_VS\_CORD\_BLOOD\_CD21HIGH\_TRANSITIONAL\_BCELL\_UP, GSE17186\_BLOOD\_VS\_CORD\_BLOOD\_CD21HIGH\_TRANSITIONAL\_BCELL\_UP GSE31082\_DP\_VS\_CD8\_SP\_THYMOCYTE\_UP, GSE31082\_DP\_VS\_CD8\_SP\_THYMOCYTE\_UP GSE22601 CD4 SINGLE POSITIVE VS CD8 SINGLE POSITIVE THYMOCYTE UP, GSE22601 CD4 SINGLE POSITIVE VS CD8 SINGLE POSITIVE THYMOCYTE UP GSE17974\_2H\_VS\_72H\_UNTREATED\_IN\_VITRO\_CD4\_TCELL\_DN, GSE17974\_2H\_VS\_72H\_UNTREATED\_IN\_VITRO\_CD4\_TCELL\_DN GSE10239 MEMORY\_VS\_KLRG1INT\_EFF\_CD8\_TCELL\_DN, GSE10239\_MEMORY\_VS\_KLRG1INT\_EFF\_CD8\_TCELL\_DN O\_VISCERAL\_ADIPOSE\_TISSUE\_TREG\_UP, GSE37532\_WT\_VS\_PPARG\_KO\_VISCERAL\_ADIPOSE\_TISSUE\_TREG\_UP

```
GSE27241_WT_VS_RORGT_KO_TH17_POLARIZED_CD4_TCELL_UP, GSE27241_WT_VS_RORGT_KO_TH17_POLARIZED_CD4_TCELL_UP
GSE6674_ANTI_IGM_VS_PL2_3_STIM_BCELL_UP, GSE6674_ANTI_IGM_VS_PL2_3_STIM_BCELL_UP
GSE7218_UNSTIM_VS_ANTIGEN_STIM_THROUGH_IGG_BCELL_UP, GSE7218_UNSTIM_VS_ANTIGEN_STIM_THROUGH_IGG_BCELL_UP
GSE3920_UNTREATED_VS_IFNB_TREATED_ENDOTHELIAL_CELL_DN, GSE3920_UNTREATED_VS_IFNB_TREATED_ENDOTHELIAL_CELL_DN
GSE37532 TREG VS_TCONV_CD4_TCELL_FROM_VISCERAL_ADIPOSE_TISSUE_DN, GSE37532_TREG_VS_TCONV_CD4_TCELL_FROM_VISCERAL_ADIPOSE_TISSUE_DN
GSE11386_NAIVE_VS_MEMORY_BCELL_UP, GSE11386_NAIVE_VS_MEMORY_BCELL_UP
GSE24726_WT_VS_E2_2_KO_PDC_UP, GSE24726_WT_VS_E2_2_KO_PDC_UP
GSE19923_WT_VS_HEB_AND_E2A_KO_DP_THYMOCYTE_UP, GSE19923_WT_VS_HEB_AND_E2A_KO_DP_THYMOCYTE_UP
GSE21670_IL6_VS_TGFB_AND_IL6_TREATED_STAT3_KO_CD4_TCELL_UP, GSE21670_IL6_VS_TGFB_AND_IL6_TREATED_STAT3_KO_CD4_TCELL_UP
GSE37301 COMMON LYMPHOID PROGENITOR VS PRO BCELL DN, GSE37301 COMMON LYMPHOID PROGENITOR VS PRO BCELL DN
GSE4984_GALECTIN1_VS_VEHICLE_CTRL_TREATED_DC_DN, GSE4984_GALECTIN1_VS_VEHICLE_CTRL_TREATED_DC_DN
GSE19941 UNSTIM VS LPS AND IL10 STIM IL10 KO MACROPHAGE DN, GSE19941 UNSTIM VS LPS AND IL10 STIM IL10 KO MACROPHAGE DN
GSE36888_STAT5_AB_KNOCKIN_VS_WT_TCELL_IL2_TREATED_6H_DN, GSE36888_STAT5_AB_KNOCKIN_VS_WT_TCELL_IL2_TREATED_6H_DN
GSE5589_WT_VS_IL6_KO_LPS_AND_IL10_STIM_MACROPHAGE_45MIN_UP, GSE5589_WT_VS_IL6_KO_LPS_AND_IL10_STIM_MACROPHAGE_45MIN_UP
GSE35543 IN VITRO ITREG VS CONVERTED EX ITREG UP, GSE35543 IN VITRO ITREG VS CONVERTED EX ITREG UP
GSE17301_CTRL_VS_48H_ACD3_ACD28_IFNA5_STIM_CD8_TCELL_DN, GSE17301_CTRL_VS_48H_ACD3_ACD28_IFNA5_STIM_CD8_TCELL_DN
KAECH_DAY8_EFF_VS_MEMORY_CD8_TCELL_UP, KAECH_DAY8_EFF_VS_MEMORY_CD8_TCELL_UP
GSE20754_WT_VS_TCF1_KO_MEMORY_CD8_TCELL_DN, GSE20754_WT_VS_TCF1_KO_MEMORY_CD8_TCELL_DN
GSE30962_ACUTE_VS_CHRONIC_LCMV_SECONDARY_INF_CD8_TCELL_DN, GSE30962_ACUTE_VS_CHRONIC_LCMV_SECONDARY_INF_CD8_TCELL_DN
GSE9650_EFFECTOR_VS_MEMORY_CD8_TCELL_UP, GSE9650_EFFECTOR_VS_MEMORY_CD8_TCELL_UP
GSE7509_UNSTIM_VS_IFNA_STIM_IMMATURE_DC_UP, GSE7509_UNSTIM_VS_IFNA_STIM_IMMATURE_DC_UP
GSE7218_IGM_VS_IGG_SIGNAL_THGOUGH_ANTIGEN_BCELL_UP, GSE7218_IGM_VS_IGG_SIGNAL_THGOUGH_ANTIGEN_BCELL_UP
GSE32901_NAIVE_VS_TH17_NEG_CD4_TCELL_UP, GSE32901_NAIVE_VS_TH17_NEG_CD4_TCELL_UP
GSE13547_2H_VS_12_H_ANTI_IGM_STIM_BCELL_UP, GSE13547_2H_VS_12_H_ANTI_IGM_STIM_BCELL_UP
GSE8685_IL2_STARVED_VS_IL2_ACT_IL2_STARVED_CD4_TCELL_DN, GSE8685_IL2_STARVED_VS_IL2_ACT_IL2_STARVED_CD4_TCELL_DN
GSE6674_UNSTIM_VS_ANTI_IGM_AND_CPG_STIM_BCELL_UP, GSE6674_UNSTIM_VS_ANTI_IGM_AND_CPG_STIM_BCELL_UP
GSE39110_DAY3_VS_DAY6_POST_IMMUNIZATION_CD8_TCELL_WITH_IL2_TREATMENT_UP, GSE39110_DAY3_VS_DAY6_POST_IMMUNIZATION_CD8_TCELL_WITH_IL2_TREATMENT_UP
GSE17186_CD21LOW_VS_CD21HIGH_TRANSITIONAL_BCELL_UP, GSE17186_CD21LOW_VS_CD21HIGH_TRANSITIONAL_BCELL_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
GSE22229_RENAL_TRANSPLANT_VS_HEALTHY_PBMC_UP, GSE22229_RENAL_TRANSPLANT_VS_HEALTHY_PBMC_UP
GSE2770_IL12_ACT_VS_ACT_CD4_TCELL_48H_DN, GSE2770_IL12_ACT_VS_ACT_CD4_TCELL_48H_DN
GSE1460_INTRATHYMIC_T_PROGENITOR_VS_CD4_THYMOCYTE_UP, GSE1460_INTRATHYMIC_T_PROGENITOR_VS_CD4_THYMOCYTE_UP
GSE5589_WT_VS_IL10_KO_LPS_STIM_MACROPHAGE_45MIN_UP, GSE5589_WT_VS_IL10_KO_LPS_STIM_MACROPHAGE_45MIN_UP
GSE2770_IL12_VS_IL4_TREATED_ACT_CD4_TCELL_48H_UP, GSE2770_IL12_VS_IL4_TREATED_ACT_CD4_TCELL_48H_UP
GSE3720_VD1_VS_VD2_GAMMADELTA_TCELL_WITH_LPS_STIM_DN, GSE3720_VD1_VS_VD2_GAMMADELTA_TCELL_WITH_LPS_STIM_DN
GSE10240_CTRL_VS_IL17_AND_IL22_STIM_PRIMARY_BRONCHIAL_EPITHELIAL_CELLS_UP, GSE10240_CTRL_VS_IL17_AND_IL22_STIM_PRIMARY_BRONCHIAL_EPITHELIAL_CELLS_UP
GSE27786 LIN_NEG_VS_BCELL_UP, GSE27786 LIN_NEG_VS_BCELL_UP
GSE40274_CTRL_VS_FOXP3_AND_LEF1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN, GSE40274_CTRL_VS_FOXP3_AND_LEF1_TRANSDUCED_ACTIVATED_CD4_TCELL_DN
GSE17301_CTRL_VS_48H_ACD3_ACD28_IFNA2_STIM_CD8_TCELL_DN, GSE17301_CTRL_VS_48H_ACD3_ACD28_IFNA2_STIM_CD8_TCELL_DN
GSE40274_CTRL_VS_EOS_TRANSDUCED_ACTIVATED_CD4_TCELL_UP, GSE40274_CTRL_VS_EOS_TRANSDUCED_ACTIVATED_CD4_TCELL_UP
GSE14308 TH1 VS TH17 UP, GSE14308 TH1 VS TH17 UP
GSE21546_SAP1A_KO_VS_SAP1A_KO_AND_ELK1_KO_DP_THYMOCYTES_DN, GSE21546_SAP1A_KO_VS_SAP1A_KO_AND_ELK1_KO_DP_THYMOCYTES_DN
GSE17812_WT_VS_THPOK_KO_MEMORY_CD8_TCELL_DN, GSE17812_WT_VS_THPOK_KO_MEMORY_CD8_TCELL_DN
GSE21063_CTRL_VS_ANTI_IGM_STIM_BCELL_16H_UP, GSE21063_CTRL_VS_ANTI_IGM_STIM_BCELL_16H_UP
GSE28237_FOLLICULAR_VS_LATE_GC_BCELL_DN, GSE28237_FOLLICULAR_VS_LATE_GC_BCELL_DN
GSE22033_WT_VS_PPARG_KO_MEF_DN, GSE22033_WT_VS_PPARG_KO_MEF_DN
GSE12507_PDC_CELL_LINE_VS_IMMATUE_T_CELL_LINE_UP, GSE12507_PDC_CELL_LINE_VS_IMMATUE_T_CELL_LINE_UP
GSE27786_CD8_TCELL_VS_MONO_MAC_DN, GSE27786_CD8_TCELL_VS_MONO_MAC_DN
GSE39556_UNTREATED_VS_3H_POLYIC_INJ_MOUSE_NK_CELL_UP, GSE39556_UNTREATED_VS_3H_POLYIC_INJ_MOUSE_NK_CELL_UP
GSE17186_NAIVE_VS_CD21LOW_TRANSITIONAL_BCELL_CORD_BLOOD_DN, GSE17186_NAIVE_VS_CD21LOW_TRANSITIONAL_BCELL_CORD_BLOOD_DN
GSE27241_CTRL_VS_DIGOXIN_TREATED_RORGT_KO_CD4_TCELL_IN_TH17_POLARIZING_CONDITIONS_UP, GSE27241_CTRL_VS_DIGOXIN_TREATED_RORGT_KO_CD4_TCELL_IN_TH17_POLARIZING_TCELL_IN_TH17_POLARIZING_TCELL_IN_TH17_POLARIZING_TCELL_IN_TH17_POLARIZING_TCELL_IN_TH17_POLARIZING_TCELL_IN_TH17_POLARIZING_TCELL_IN_TH17_POLARIZING_TCELL_IN_TH17_POLARIZING_TCELL_IN_TH17_POLARIZING_TCELL_IN_TH17_POLARIZING_TCELL_IN_TH17_POLARIZING_TCELL_IN_TH17_POLARIZING_TCELL_IN_TH17_POLARIZING_TCELL_IN_TH17_POLARIZING_TCELL_IN_TH17_PO
GSE21379_WT_VS_SAP_KO_CD4_TCELL_DN, GSE21379_WT_VS_SAP_KO_CD4_TCELL_DN
GSE6259_BCELL_VS_CD4_TCELL_UP, GSE6259_BCELL_VS_CD4_TCELL_UP
GSE6259_33D1_POS_DC_VS_BCELL_DN, GSE6259_33D1_POS_DC_VS_BCELL_DN
GSE9509_LPS_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_30MIN_DN, GSE9509_LPS_VS_LPS_AND_IL10_STIM_IL10_KO_MACROPHAGE_30MIN_DN
GSE7219_WT_VS_NIK_NFKB2_KO_LPS_AND_ANTI_CD40_STIM_DC_UP, GSE7219_WT_VS_NIK_NFKB2_KO_LPS_AND_ANTI_CD40_STIM_DC_UP
GSE12963_UNINF_VS_ENV_AND_NEF_DEFICIENT_HIV1_INF_CD4_TCELL_DN, GSE12963_UNINF_VS_ENV_AND_NEF_DEFICIENT_HIV1_INF_CD4_TCELL_DN
GSE5542_IFNG_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_6H_UP, GSE5542_IFNG_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_6H_UP
GSE2405_0H_VS_24H_A_PHAGOCYTOPHILUM_STIM_NEUTROPHIL_DN, GSE2405_0H_VS_24H_A_PHAGOCYTOPHILUM_STIM_NEUTROPHIL_DN
GSE21546_WT_VS_SAP1A_KO_AND_ELK1_KO_ANTI_CD3_STIM_DP_THYMOCYTES_DN, GSE21546_WT_VS_SAP1A_KO_AND_ELK1_KO_ANTI_CD3_STIM_DP_THYMOCYTES_DN
GSE15735_2H_VS_12H_HDAC_INHIBITOR_TREATED_CD4_TCELL_DN, GSE15735_2H_VS_12H_HDAC_INHIBITOR_TREATED_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
GSE8921_UNSTIM_VS_TLR1_2_STIM_MONOCYTE_6H_DN, GSE8921_UNSTIM_VS_TLR1_2_STIM_MONOCYTE_6H_DN
GSE3920_UNTREATED_VS_IFNB_TREATED_ENDOTHELIAL_CELL_UP, GSE3920_UNTREATED_VS_IFNB_TREATED_ENDOTHELIAL_CELL_UP
GSE21670_TGFB_VS_TGFB_AND_IL6_TREATED_CD4_TCELL_UP, GSE21670_TGFB_VS_TGFB_AND_IL6_TREATED_CD4_TCELL_UP
GSE23505_IL6_IL1_VS_IL6_IL1_IL23_TREATED_CD4_TCELL_UP, GSE23505_IL6_IL1_VS_IL6_IL1_IL23_TREATED_CD4_TCELL_UP
GSE27786_LIN_NEG_VS_MONO_MAC_DN, GSE27786_LIN_NEG_VS_MONO_MAC_DN
GSE42021_CD24HI_VS_CD24LOW_TCONV_THYMUS_UP, GSE42021_CD24HI_VS_CD24LOW_TCONV_THYMUS_UP
GSE369_SOCS3_KO_VS_IFNG_KO_LIVER_DN, GSE369_SOCS3_KO_VS_IFNG_KO_LIVER_DN
GSE40274_FOXP3_VS_FOXP3_AND_HELIOS_TRANSDUCED_ACTIVATED_CD4_TCELL_DN, GSE40274_FOXP3_VS_FOXP3_AND_HELIOS_TRANSDUCED_ACTIVATED_CD4_TCELL_DN
GSE8685_IL2_STARVED_VS_IL15_ACT_IL2_STARVED_CD4_TCELL_DN, GSE8685_IL2_STARVED_VS_IL15_ACT_IL2_STARVED_CD4_TCELL_DN
GSE32901_NAIVE_VS_TH1_CD4_TCELL_DN, GSE32901_NAIVE_VS_TH1_CD4_TCELL_DN
GSE10239_KLRG1INT_VS_KLRG1HIGH_EFF_CD8_TCELL_DN, GSE10239_KLRG1INT_VS_KLRG1HIGH_EFF_CD8_TCELL_DN
GSE2405_HEAT_KILLED_VS_LIVE_A_PHAGOCYTOPHILUM_STIM_NEUTROPHIL_9H_DN, GSE2405_HEAT_KILLED_VS_LIVE_A_PHAGOCYTOPHILUM_STIM_NEUTROPHIL_9H_DN
GSE32034 LY6C HIGH VS LOW ROSIGLIZATONE TREATED MONOCYTE DN, GSE32034 LY6C HIGH VS LOW ROSIGLIZATONE TREATED MONOCYTE DN
GSE45365_WT_VS_IFNAR_KO_BCELL_DN, GSE45365_WT_VS_IFNAR_KO_BCELL_DN
GSE29164_DAY3_VS_DAY7_CD8_TCELL_TREATED_MELANOMA_UP, GSE29164_DAY3_VS_DAY7_CD8_TCELL_TREATED_MELANOMA_UP
GSE41978_WT_VS_ID2_KO_AND_BIM_KO_KLRG1_LOW_EFFECTOR_CD8_TCELL_UP, GSE41978_WT_VS_ID2_KO_AND_BIM_KO_KLRG1_LOW_EFFECTOR_CD8_TCELL_UP
GSE40274_FOXP3_VS_FOXP3_AND_XBP1_TRANSDUCED_ACTIVATED_CD4_TCELL_UP, GSE40274_FOXP3_VS_FOXP3_AND_XBP1_TRANSDUCED_ACTIVATED_CD4_TCELL_UP
GSE45365 WT VS IFNAR KO BCELL_UP, GSE45365_WT_VS_IFNAR_KO_BCELL_UP
GSE17721_12H_VS_24H_CPG_BMDC_UP, GSE17721_12H_VS_24H_CPG_BMDC_UP
GSE36476 CTRL VS TSST ACT 72H MEMORY CD4 TCELL OLD UP, GSE36476 CTRL VS TSST ACT 72H MEMORY CD4 TCELL OLD UP
GSE26488_WT_VS_VP16_TRANSGENIC_HDAC7_KO_DOUBLE_POSITIVE_THYMOCYTE_UP, GSE26488_WT_VS_VP16_TRANSGENIC_HDAC7_KO_DOUBLE_POSITIVE_THYMOCYTE_UP
GSE25123_IL4_VS_IL4_AND_ROSIGLITAZONE_STIM_PPARG_KO_MACROPHAGE_DAY10_UP, GSE25123_IL4_VS_IL4_AND_ROSIGLITAZONE_STIM_PPARG_KO_MACROPHAGE_DAY10_UP
GSE23308_CTRL_VS_CORTICOSTERONE_TREATED_MACROPHAGE_UP, GSE23308_CTRL_VS_CORTICOSTERONE_TREATED_MACROPHAGE_UP
GSE32901_TH1_VS_TH17_NEG_CD4_TCELL_DN, GSE32901_TH1_VS_TH17_NEG_CD4_TCELL_DN
GSE10147_IL3_VS_IL3_AND_CPG_STIM_PDC_UP, GSE10147_IL3_VS_IL3_AND_CPG_STIM_PDC_UP
GSE22886_IGA_VS_IGM_MEMORY_BCELL_DN, GSE22886_IGA_VS_IGM_MEMORY_BCELL_DN
GSE7218 UNSTIM VS ANTIGEN STIM THROUGH IGM BCELL DN, GSE7218 UNSTIM VS ANTIGEN STIM THROUGH IGM BCELL DN
GSE36476_YOUNG_VS_OLD_DONOR_MEMORY_CD4_TCELL_16H_TSST_ACT_DN, GSE36476_YOUNG_VS_OLD_DONOR_MEMORY_CD4_TCELL_16H_TSST_ACT_DN
GSE360 CTRL VS B MALAYI HIGH DOSE DC DN, GSE360 CTRL VS B MALAYI HIGH DOSE DC DN
GSE29164 CD8 TCELL VS CD8 TCELL AND IL12 TREATED MELANOMA DAY7 DN, GSE29164 CD8 TCELL VS CD8 TCELL AND IL12 TREATED MELANOMA DAY7 DN
GSE26912_TUMORICIDAL_VS_CTRL_MACROPHAGE_UP, GSE26912_TUMORICIDAL_VS_CTRL_MACROPHAGE_UP
GSE8921_UNSTIM_0H_VS_TLR1_2_STIM_MONOCYTE_3H_UP, GSE8921_UNSTIM_0H_VS_TLR1_2_STIM_MONOCYTE_3H_UP
GSE22601_DOUBLE_NEGATIVE_VS_CD8_SINGLE_POSITIVE_THYMOCYTE_DN, GSE22601_DOUBLE_NEGATIVE_VS_CD8_SINGLE_POSITIVE_THYMOCYTE_DN
GSE23925_DARK_ZONE_VS_NAIVE_BCELL_DN, GSE23925_DARK_ZONE_VS_NAIVE_BCELL_DN
GSE17721_LPS_VS_GARDIQUIMOD_1H_BMDC_UP, GSE17721_LPS_VS_GARDIQUIMOD_1H_BMDC_UP
GSE37301_COMMON_LYMPHOID_PROGENITOR_VS_RAG2_KO_NK_CELL_UP, GSE37301_COMMON_LYMPHOID_PROGENITOR_VS_RAG2_KO_NK_CELL_UP
GSE9960 GRAM POS VS GRAM NEG AND POS SEPSIS PBMC DN, GSE9960 GRAM POS VS GRAM NEG AND POS SEPSIS PBMC DN
```

GSE10239 MEMORY VS KLRG1HIGH EFF CD8 TCELL DN. GSE10239 MEMORY VS KLRG1HIGH EFF CD8 TCELL DN

GSE21063\_WT\_VS\_NFATC1\_KO\_BCELL\_DN, GSE21063\_WT\_VS\_NFATC1\_KO\_BCELL\_DN

GSE19941\_LPS\_VS\_LPS\_AND\_IL10\_STIM\_IL10\_KO\_MACROPHAGE\_UP, GSE19941\_LPS\_VS\_LPS\_AND\_IL10\_STIM\_IL10\_KO\_MACROPHAGE\_UP

GSE43863\_TH1\_VS\_LY6C\_INT\_CXCR5POS\_EFFECTOR\_CD4\_TCELL\_UP, GSE43863\_TH1\_VS\_LY6C\_INT\_CXCR5POS\_EFFECTOR\_CD4\_TCELL\_UP

GSE1460\_DP\_THYMOCYTE\_VS\_NAIVE\_CD4\_TCELL\_CORD\_BLOOD\_UP, GSE1460\_DP\_THYMOCYTE\_VS\_NAIVE\_CD4\_TCELL\_CORD\_BLOOD\_UP

GSE21670\_UNTREATED\_VS\_TGFB\_IL6\_TREATED\_CD4\_TCELL\_UP, GSE21670\_UNTREATED\_VS\_TGFB\_IL6\_TREATED\_CD4\_TCELL\_UP

GSE9878\_CTRL\_VS\_EBF\_TRANSDUCED\_PAX5\_KO\_PRO\_BCELL\_DN, GSE9878\_CTRL\_VS\_EBF\_TRANSDUCED\_PAX5\_KO\_PRO\_BCELL\_DN

GSE37534\_UNTREATED\_VS\_GW1929\_TREATED\_CD4\_TCELL\_PPARG1\_AND\_FOXP3\_TRASDUCED\_DN, GSE37534\_UNTREATED\_VS\_GW1929\_TREATED\_CD4\_TCELL\_PPARG1\_AND\_FOXP3\_TRASI