```
GSE21927_C26GM_VS_4T1_TUMOR_MONOCYTE_BALBC_DN, GSE21927_C26GM_VS_4T1_TUMOR_MONOCYTE_BALBC_DN
                                                                                                                   GSE16450_CTRL_VS_IFNA_6H_STIM_IMMATURE_NEURON_CELL_LINE_DN, GSE16450_CTRL_VS_IFNA_6H_STIM_IMMATURE_NEURON_CELL_LINE_DN
                                                                                                                   GO_ACETYLTRANSFERASE_COMPLEX, GO_ACETYLTRANSFERASE_COMPLEX
                                                                                                                   GSE23398_WT_VS_IL2_KO_CD4_TCELL_SCURFY_MOUSE_DN, GSE23398_WT_VS_IL2_KO_CD4_TCELL_SCURFY_MOUSE_DN
                                                                                                                   GSE41867_DAY6_EFFECTOR_VS_DAY30_MEMORY_CD8_TCELL_LCMV_ARMSTRONG_DN, GSE41867_DAY6_EFFECTOR_VS_DAY30_MEMORY_CD8_TCELL_LCMV_ARMSTRONC
                                                                                                                   GSE24574_BCL6_HIGH_TFH_VS_TFH_CD4_TCELL_DN, GSE24574_BCL6_HIGH_TFH_VS_TFH_CD4_TCELL_DN
                                                                                                                   GSE32986_UNSTIM_VS_CURDLAN_HIGHDOSE_STIM_DC_DN, GSE32986_UNSTIM_VS_CURDLAN_HIGHDOSE_STIM_DC_DN
                                                                                                                   GSE45881_CXCR6HI_VS_CXCR1LO_COLONIC_LAMINA_PROPRIA_UP, GSE45881_CXCR6HI_VS_CXCR1LO_COLONIC_LAMINA_PROPRIA_UP
                                                                                                                   GSE32986_UNSTIM_VS_GMCSF_AND_CURDLAN_LOWDOSE_STIM_DC_DN, GSE32986_UNSTIM_VS_GMCSF_AND_CURDLAN_LOWDOSE_STIM_DC_DN
                                                                                                                   GSE16450_IMMATURE_VS_MATURE_NEURON_CELL_LINE_UP, GSE16450_IMMATURE_VS_MATURE_NEURON_CELL_LINE_UP
                                                                                                                   GSE22886 NAIVE CD4_TCELL_VS_48H_ACT_TH1_UP, GSE22886_NAIVE_CD4_TCELL_VS_48H_ACT_TH1_UP
                                                                                                                   GSE31082_DN_VS_CD4_SP_THYMOCYTE_DN, GSE31082_DN_VS_CD4_SP_THYMOCYTE_DN
                                                                                                                   GSE28726_ACT_CD4_TCELL_VS_ACT_VA24NEG_NKTCELL_DN, GSE28726_ACT_CD4_TCELL_VS_ACT_VA24NEG_NKTCELL_DN
                                                                                                                   GSE28408_LY6G_POS_VS_NEG_DC_UP, GSE28408_LY6G_POS_VS_NEG_DC_UP
                                                                                                                   GSE16385_IFNG_TNF_VS_UNSTIM_MACROPHAGE_ROSIGLITAZONE_TREATED_DN, GSE16385_IFNG_TNF_VS_UNSTIM_MACROPHAGE_ROSIGLITAZONE_TREATED_DN
                                                                                                                   GSE28726_ACT_CD4_TCELL_VS_ACT_NKTCELL_DN, GSE28726_ACT_CD4_TCELL_VS_ACT_NKTCELL_DN
                                                                                                                   GSE15215_CD2_POS_VS_NEG_PDC_DN, GSE15215_CD2_POS_VS_NEG_PDC_DN
                                                                                                                   GSE2770 IL12 VS IL4 TREATED ACT CD4 TCELL 6H DN, GSE2770 IL12 VS IL4 TREATED ACT CD4 TCELL 6H DN
                                                                                                                   GSE7852_THYMUS_VS_FAT_TCONV_UP, GSE7852_THYMUS_VS_FAT_TCONV_UP
                                                                                                                   GSE22886_IGG_IGA_MEMORY_BCELL_VS_BM_PLASMA_CELL_UP, GSE22886_IGG_IGA_MEMORY_BCELL_VS_BM_PLASMA_CELL_UP
                                                                                                                   GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_24H_CD4_TCELL_UP, GSE17974_CTRL_VS_ACT_IL4_AND_ANTI_IL12_24H_CD4_TCELL_UP
                                                                                                                   GSE2770_TGFB_AND_IL4_VS_IL12_TREATED_ACT_CD4_TCELL_6H_UP, GSE2770_TGFB_AND_IL4_VS_IL12_TREATED_ACT_CD4_TCELL_6H_UP
                                                                                                                   GSE30971_WBP7_HET_VS_KO_MACROPHAGE_4H_LPS_STIM_DN, GSE30971_WBP7_HET_VS_KO_MACROPHAGE_4H_LPS_STIM_DN
                                                                                                                   GSE22886_IGM_MEMORY_BCELL_VS_BM_PLASMA_CELL_UP, GSE22886_IGM_MEMORY_BCELL_VS_BM_PLASMA_CELL_UP
                                                                                                                   GSE17301 IFNA2_VS IFNA2_AND_ACD3_ACD28_STIM_CD8_TCELL_UP, GSE17301_IFNA2_VS_IFNA2_AND_ACD3_ACD28_STIM_CD8_TCELL_UP
                                                                                                                   GSE22886_DAY1_VS_DAY7_MONOCYTE_IN_CULTURE_UP, GSE22886_DAY1_VS_DAY7_MONOCYTE_IN_CULTURE_UP
                                                                                                                   GSE22886 NAIVE CD4 TCELL VS 12H ACT TH1 UP, GSE22886 NAIVE CD4 TCELL VS 12H ACT TH1 UP
                                                                                                                   GSE21063_CTRL_VS_ANTI_IGM_STIM_BCELL_NFATC1_KO_3H_DN, GSE21063_CTRL_VS_ANTI_IGM_STIM_BCELL_NFATC1_KO_3H_DN
                                                                                                                   GSE11057_CD4_CENT_MEM_VS_PBMC_UP, GSE11057_CD4_CENT_MEM_VS_PBMC_UP
                                                                                                                   LEE_DIFFERENTIATING_T_LYMPHOCYTE, LEE_DIFFERENTIATING_T_LYMPHOCYTE
                                                                                                                   GSE16385_ROSIGLITAZONE_IL4_VS_IFNG_TNF_STIM_MACROPHAGE_UP, GSE16385_ROSIGLITAZONE_IL4_VS_IFNG_TNF_STIM_MACROPHAGE_UP
                                                                                                                   GSE36476_CTRL_VS_TSST_ACT_72H_MEMORY_CD4_TCELL_YOUNG_UP, GSE36476_CTRL_VS_TSST_ACT_72H_MEMORY_CD4_TCELL_YOUNG_UP
                                                                                                                   GSE24634_TEFF_VS_TCONV_DAY5_IN_CULTURE_DN, GSE24634_TEFF_VS_TCONV_DAY5_IN_CULTURE_DN
                                                                                                                   GOLDRATH_EFF_VS_MEMORY_CD8_TCELL_DN, GOLDRATH_EFF_VS_MEMORY_CD8_TCELL_DN
                                                                                                                   GSE11057_PBMC_VS_MEM_CD4_TCELL_DN, GSE11057_PBMC_VS_MEM_CD4_TCELL_DN
                                                                                                                   GO_PROTEIN_ACETYLATION, GO_PROTEIN_ACETYLATION
                                                                                                                   GSE7568_CTRL_VS_3H_TGFB_TREATED_MACROPHAGES_WITH_IL4_AND_DEXAMETHASONE_DN, GSE7568_CTRL_VS_3H_TGFB_TREATED_MACROPHAGES_WITH_IL4_AND
                                                                                                                   GSE22886_UNSTIM_VS_IL2_STIM_NKCELL_UP, GSE22886_UNSTIM_VS_IL2_STIM_NKCELL_UP
                                                                                                                   GSE11057_CD4_EFF_MEM_VS_PBMC_UP, GSE11057_CD4_EFF_MEM_VS_PBMC_UP
                                                                                                                   GNF2_DDX5, GNF2_DDX5
                                                                                                                   GSE21063_CTRL_VS_ANTI_IGM_STIM_BCELL_NFATC1_KO_8H_UP, GSE21063_CTRL_VS_ANTI_IGM_STIM_BCELL_NFATC1_KO_8H_UP
                                                                                                                   GSE4984_GALECTIN1_VS_VEHICLE_CTRL_TREATED_DC_UP, GSE4984_GALECTIN1_VS_VEHICLE_CTRL_TREATED_DC_UP
                                                                                                                   GSE39820_TGFBETA3_IL6_VS_TGFBETA3_IL6_IL23A_TREATED_CD4_TCELL_UP, GSE39820_TGFBETA3_IL6_VS_TGFBETA3_IL6_IL23A_TREATED_CD4_TCELL_UP
                                                                                                                   GSE10325_LUPUS_CD4_TCELL_VS_LUPUS_BCELL_UP, GSE10325_LUPUS_CD4_TCELL_VS_LUPUS_BCELL_UP
                                                                                                                   GSE6259_BCELL_VS_CD8_TCELL_DN, GSE6259_BCELL_VS_CD8_TCELL_DN
                                                                                                                   GSE36476_CTRL_VS_TSST_ACT_16H_MEMORY_CD4_TCELL_YOUNG_UP, GSE36476_CTRL_VS_TSST_ACT_16H_MEMORY_CD4_TCELL_YOUNG_UP
                                                                                                                   GSE27786 CD4 VS CD8 TCELL UP, GSE27786 CD4 VS CD8 TCELL UP
                                                                                                                   GSE29618_BCELL_VS_MDC_UP, GSE29618_BCELL_VS_MDC_UP
                                                                                                                   GSE36826_WT_VS_IL1R_KO_SKIN_UP, GSE36826_WT_VS_IL1R_KO_SKIN_UP
                                                                                                                   GSE6269_HEALTHY_VS_E_COLI_INF_PBMC_UP, GSE6269_HEALTHY_VS_E_COLI_INF_PBMC_UP
                                                                                                                   GSE24634_NAIVE_CD4_TCELL_VS_DAY5_IL4_CONV_TREG_UP, GSE24634_NAIVE_CD4_TCELL_VS_DAY5_IL4_CONV_TREG_UP
                                                                                                                   GSE17974_0H_VS_12H_IN_VITRO_ACT_CD4_TCELL_UP, GSE17974_0H_VS_12H_IN_VITRO_ACT_CD4_TCELL_UP
                                                                                                                   GSE22886_NAIVE_TCELL_VS_MONOCYTE_UP, GSE22886_NAIVE_TCELL_VS_MONOCYTE_UP
                                                                                                                   GSE24634_NAIVE_CD4_TCELL_VS_DAY3_IL4_CONV_TREG_UP, GSE24634_NAIVE_CD4_TCELL_VS_DAY3_IL4_CONV_TREG_UP
                                                                                                                   GSE20727_H2O2_VS_ROS_INHIBITOR_TREATED_DC_DN, GSE20727_H2O2_VS_ROS_INHIBITOR_TREATED_DC_DN
                                                                                                                   GSE22886_NAIVE_CD4_TCELL_VS_12H_ACT_TH2_UP, GSE22886_NAIVE_CD4_TCELL_VS_12H_ACT_TH2_UP
                                                                                                                   GSE22886_NAIVE_CD4_TCELL_VS_DC_UP, GSE22886_NAIVE_CD4_TCELL_VS_DC_UP
                                                                                                                   GSE36476_YOUNG_VS_OLD_DONOR_MEMORY_CD4_TCELL_72H_TSST_ACT_DN, GSE36476_YOUNG_VS_OLD_DONOR_MEMORY_CD4_TCELL_72H_TSST_ACT_DN
                                                                                                                   GSE36476_CTRL_VS_TSST_ACT_40H_MEMORY_CD4_TCELL_OLD_UP, GSE36476_CTRL_VS_TSST_ACT_40H_MEMORY_CD4_TCELL_OLD_UP
                                                                                                                   GSE10325_CD4_TCELL_VS_BCELL_UP, GSE10325_CD4_TCELL_VS_BCELL_UP
                                                                                                                   GSE12003_MIR223_KO_VS_WT_BM_PROGENITOR_4D_CULTURE_UP, GSE12003_MIR223_KO_VS_WT_BM_PROGENITOR_4D_CULTURE_UP
                                                                                                                   STEARMAN_LUNG_CANCER_EARLY_VS_LATE_UP, STEARMAN_LUNG_CANCER_EARLY_VS_LATE_UP
                                                                                                                   GSE5099_CLASSICAL_M1_VS_ALTERNATIVE_M2_MACROPHAGE_UP, GSE5099_CLASSICAL_M1_VS_ALTERNATIVE_M2_MACROPHAGE_UP
                                                                                                                   BROWNE_HCMV_INFECTION_18HR_UP, BROWNE_HCMV_INFECTION_18HR_UP
                                                                                                                   MTOR_UP.N4.V1_DN, MTOR_UP.N4.V1_DN
                                                                                                                   GSE3982_MAST_CELL_VS_BASOPHIL_DN, GSE3982_MAST_CELL_VS_BASOPHIL_DN
                                                                                                                   PODAR_RESPONSE_TO_ADAPHOSTIN_UP, PODAR_RESPONSE_TO_ADAPHOSTIN_UP
                                                                                                                   GSE26156_DOUBLE_POSITIVE_VS_CD4_SINGLE_POSITIVE_THYMOCYTE_UP, GSE26156_DOUBLE_POSITIVE_VS_CD4_SINGLE_POSITIVE_THYMOCYTE_UP
                                                                                                                   GSE30962_ACUTE_VS_CHRONIC_LCMV_PRIMARY_INF_CD8_TCELL_UP, GSE30962_ACUTE_VS_CHRONIC_LCMV_PRIMARY_INF_CD8_TCELL_UP
                                                                                                                   GSE40068_BCL6_POS_VS_NEG_CXCR5_POS_TFH_DN, GSE40068_BCL6_POS_VS_NEG_CXCR5_POS_TFH_DN
                                                                                                                   GSE37534_GW1929_VS_ROSIGLITAZONE_TREATED_CD4_TCELL_PPARG1_FOXP3_TRANSDUCED_DN, GSE37534_GW1929_VS_ROSIGLITAZONE_TREATED_CD4_TCELL_PPARG1
                                                                                                                   GSE26928_NAIVE_VS_EFF_MEMORY_CD4_TCELL_UP, GSE26928_NAIVE_VS_EFF_MEMORY_CD4_TCELL_UP
                                                                                                                   GSE10325_LUPUS_CD4_TCELL_VS_LUPUS_MYELOID_UP, GSE10325_LUPUS_CD4_TCELL_VS_LUPUS_MYELOID_UP
                                                                                                                   GSE3982_EOSINOPHIL_VS_MAC_UP, GSE3982_EOSINOPHIL_VS_MAC_UP
                                                                                                                   GSE34156_UNTREATED_VS_24H_TLR1_TLR2_LIGAND_TREATED_MONOCYTE_DN, GSE34156_UNTREATED_VS_24H_TLR1_TLR2_LIGAND_TREATED_MONOCYTE_DN
                                                                                                                   GSE17974_0H_VS_24H_IN_VITRO_ACT_CD4_TCELL_UP, GSE17974_0H_VS_24H_IN_VITRO_ACT_CD4_TCELL_UP
                                                                                                                   GSE18281 CORTICAL THYMOCYTE VS WHOLE CORTEX THYMUS DN, GSE18281 CORTICAL THYMOCYTE VS WHOLE CORTEX THYMUS DN
                                                                                                                   GSE3982_BASOPHIL_VS_TH1_UP, GSE3982_BASOPHIL_VS_TH1_UP
                                                                                                                   GSE25677_R848_VS_MPL_AND_R848_STIM_BCELL_DN, GSE25677_R848_VS_MPL_AND_R848_STIM_BCELL_DN
                                                                                                                   GSE29618_BCELL_VS_MONOCYTE_DAY7_FLU_VACCINE_UP, GSE29618_BCELL_VS_MONOCYTE_DAY7_FLU_VACCINE_UP
                                                                                                                   GSE15330 WT_VS_IKAROS_KO_MEGAKARYOCYTE_ERYTHROID_PROGENITOR_DN, GSE15330 WT_VS_IKAROS_KO_MEGAKARYOCYTE_ERYTHROID_PROGENITOR_DN
                                                                                                                   ODONNELL_TARGETS_OF_MYC_AND_TFRC_UP, ODONNELL_TARGETS_OF_MYC_AND_TFRC_UP
                                                                                                                   GSE16450 IMMATURE VS MATURE NEURON CELL LINE 12H IFNA STIM UP, GSE16450 IMMATURE VS MATURE NEURON CELL LINE 12H IFNA STIM UP
                                                                                                                   GSE12845 IGD NEG BLOOD VS NAIVE TONSIL BCELL DN, GSE12845 IGD NEG BLOOD VS NAIVE TONSIL BCELL DN
                                                                                                                   GSE27786_CD4_TCELL_VS_NKCELL_UP, GSE27786_CD4_TCELL_VS_NKCELL_UP
                                                                                                                   GSE1460_INTRATHYMIC_T_PROGENITOR_VS_NAIVE_CD4_TCELL_ADULT_BLOOD_DN, GSE1460_INTRATHYMIC_T_PROGENITOR_VS_NAIVE_CD4_TCELL_ADULT_BLOOD_D
                                                                                                                   MODULE_119, MODULE_119
                                                                                                                   GSE22886_NAIVE_BCELL_VS_BLOOD_PLASMA_CELL_UP, GSE22886_NAIVE_BCELL_VS_BLOOD_PLASMA_CELL_UP
                                                                                                                   GSE1460 NAIVE CD4 TCELL ADULT BLOOD VS THYMIC STROMAL CELL UP, GSE1460 NAIVE CD4 TCELL ADULT BLOOD VS THYMIC STROMAL CELL UP
                                                                                                                   GSE3982_MAC_VS_BCELL_DN, GSE3982_MAC_VS_BCELL_DN
                                                                                                                   GSE1460_DP_THYMOCYTE_VS_NAIVE_CD4_TCELL_ADULT_BLOOD_DN, GSE1460_DP_THYMOCYTE_VS_NAIVE_CD4_TCELL_ADULT_BLOOD_DN
                                                                                                                   GSE12845 NAIVE VS PRE GC TONSIL BCELL UP, GSE12845 NAIVE VS PRE GC TONSIL BCELL UP
                                                                                                                   GSE21670_IL6_VS_TGFB_AND_IL6_TREATED_STAT3_KO_CD4_TCELL_DN, GSE21670_IL6_VS_TGFB_AND_IL6_TREATED_STAT3_KO_CD4_TCELL_DN
                                                                                                                   GSE13547_2H_VS_12_H_ANTI_IGM_STIM_ZFX_KO_BCELL_UP, GSE13547_2H_VS_12_H_ANTI_IGM_STIM_ZFX_KO_BCELL_UP
                                                                                                                   GSE17580_UNINFECTED_VS_S_MANSONI_INF_TEFF_UP, GSE17580_UNINFECTED_VS_S_MANSONI_INF_TEFF_UP
                                                                                                                   GSE14415_NATURAL_TREG_VS_TCONV_UP, GSE14415_NATURAL_TREG_VS_TCONV_UP
                                                                                                                   GSE12845_NAIVE_VS_DARKZONE_GC_TONSIL_BCELL_UP, GSE12845_NAIVE_VS_DARKZONE_GC_TONSIL_BCELL_UP
                                                                                                                   GSE3994 WT VS PAC1 KO ACTIVATED MAST CELL DN, GSE3994 WT VS PAC1 KO ACTIVATED MAST CELL DN
                                                                                                                   GSE17301_CTRL_VS_48H_IFNA2_STIM_CD8_TCELL_DN, GSE17301_CTRL_VS_48H_IFNA2_STIM_CD8_TCELL_DN
                                                                                                                   GSE17974 CTRL VS ACT IL4 AND ANTI IL12 4H CD4 TCELL UP, GSE17974 CTRL VS ACT IL4 AND ANTI IL12 4H CD4 TCELL UP
                                                                                                                   GSE7219_UNSTIM_VS_LPS_AND_ANTI_CD40_STIM_NIK_NFKB2_KO_DC_UP, GSE7219_UNSTIM_VS_LPS_AND_ANTI_CD40_STIM_NIK_NFKB2_KO_DC_UP
                                                                                                                   GSE29618_BCELL_VS_MDC_DAY7_FLU_VACCINE_UP, GSE29618_BCELL_VS_MDC_DAY7_FLU_VACCINE_UP
                                                                                                                   GSE21033_CTRL_VS_POLYIC_STIM_DC_12H_UP, GSE21033_CTRL_VS_POLYIC_STIM_DC_12H_UP
                                                                                                                   GSE2770_IL12_AND_TGFB_ACT_VS_ACT_CD4_TCELL_6H_UP, GSE2770_IL12_AND_TGFB_ACT_VS_ACT_CD4_TCELL_6H_UP
                                                                                                                   GSE42021 TCONV PLN VS TREG PRECURSORS THYMUS UP, GSE42021 TCONV PLN VS TREG PRECURSORS THYMUS UP
                                                                                                                   GSE3982_MAC_VS_BASOPHIL_DN, GSE3982_MAC_VS_BASOPHIL_DN
                                                                                                                   GCACCTT_MIR18A_MIR18B, GCACCTT_MIR18A_MIR18B
                                                                                                                   GSE25123_IL4_VS_IL4_AND_ROSIGLITAZONE_STIM_MACROPHAGE_DAY10_DN, GSE25123_IL4_VS_IL4_AND_ROSIGLITAZONE_STIM_MACROPHAGE_DAY10_DN
                                                                                                                   GSE1460_CD4_THYMOCYTE_VS_NAIVE_CD4_TCELL_ADULT_BLOOD_DN, GSE1460_CD4_THYMOCYTE_VS_NAIVE_CD4_TCELL_ADULT_BLOOD_DN
                                                                                                                   GSE40274_FOXP3_VS_FOXP3_AND_LEF1_TRANSDUCED_ACTIVATED_CD4_TCELL_UP, GSE40274_FOXP3_VS_FOXP3_AND_LEF1_TRANSDUCED_ACTIVATED_CD4_TCELL_UP
                                                                                                                   GSE3982 CENT_MEMORY_CD4_TCELL_VS_TH2_UP, GSE3982_CENT_MEMORY_CD4_TCELL_VS_TH2_UP
                                                                                                                   TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_UP, TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_UP
                                                                                                                   AGGAGTG_MIR483, AGGAGTG_MIR483
                                                                                                                   GSE22886_NAIVE_CD4_TCELL_VS_MONOCYTE_UP, GSE22886_NAIVE_CD4_TCELL_VS_MONOCYTE_UP
                                                                                                                   GSE22886_UNSTIM_VS_IL15_STIM_NKCELL_UP, GSE22886_UNSTIM_VS_IL15_STIM_NKCELL_UP
                                                                                                                   RODRIGUES_DCC_TARGETS_DN, RODRIGUES_DCC_TARGETS_DN
                                                                                                                   GSE11961_MEMORY_BCELL_DAY7_VS_GERMINAL_CENTER_BCELL_DAY40_DN, GSE11961_MEMORY_BCELL_DAY7_VS_GERMINAL_CENTER_BCELL_DAY40_DN
                                                                                                                   GSE25087_FETAL_VS_ADULT_TCONV_DN, GSE25087_FETAL_VS_ADULT_TCONV_DN
                                                                                                                   GSE12845_IGD_POS_BLOOD_VS_PRE_GC_TONSIL_BCELL_UP, GSE12845_IGD_POS_BLOOD_VS_PRE_GC_TONSIL_BCELL_UP
                                                                                                                   GSE3691_CONVENTIONAL_VS_PLASMACYTOID_DC_SPLEEN_UP, GSE3691_CONVENTIONAL_VS_PLASMACYTOID_DC_SPLEEN_UP
                                                                                                                   LIU_SOX4_TARGETS_UP, LIU_SOX4_TARGETS_UP
                                                                                                                   KAECH_DAY8_EFF_VS_MEMORY_CD8_TCELL_DN, KAECH_DAY8_EFF_VS_MEMORY_CD8_TCELL_DN
                                                                                                                   LAIHO_COLORECTAL_CANCER_SERRATED_DN, LAIHO_COLORECTAL_CANCER_SERRATED_DN
                                                                                                                   GSE19401_UNSTIM_VS_PAM2CSK4_STIM_FOLLICULAR_DC_UP, GSE19401_UNSTIM_VS_PAM2CSK4_STIM_FOLLICULAR_DC_UP
                                                                                                                   GSE15930_NAIVE_VS_72H_IN_VITRO_STIM_TRICHOSTATINA_CD8_TCELL_UP, GSE15930_NAIVE_VS_72H_IN_VITRO_STIM_TRICHOSTATINA_CD8_TCELL_UP
                                                                                                                   GSE23925_LIGHT_ZONE_VS_DARK_ZONE_BCELL_DN, GSE23925_LIGHT_ZONE_VS_DARK_ZONE_BCELL_DN
                                                                                                                   JUBAN_TARGETS_OF_SPI1_AND_FLI1_UP, JUBAN_TARGETS_OF_SPI1_AND_FLI1_UP
                                                                                                                   GSE3982_BCELL_VS_TH2_UP, GSE3982_BCELL_VS_TH2_UP
                                                                                                                   GSE22886_NAIVE_CD8_TCELL_VS_MONOCYTE_UP, GSE22886_NAIVE_CD8_TCELL_VS_MONOCYTE_UP
                                                                                                                   CATGTAA_MIR496, CATGTAA_MIR496
                                                                                                                   GSE42021_TREG_PLN_VS_TREG_PRECURSORS_THYMUS_UP, GSE42021_TREG_PLN_VS_TREG_PRECURSORS_THYMUS_UP
                                                                                                                   GSE13547_WT_VS_ZFX_KO_BCELL_UP, GSE13547_WT_VS_ZFX_KO_BCELL_UP
                                                                                                                   GSE3982_NEUTROPHIL_VS_TH1_UP, GSE3982_NEUTROPHIL_VS_TH1_UP
                                                                                                                   GSE5542_UNTREATED_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_24H_DN, GSE5542_UNTREATED_VS_IFNA_AND_IFNG_TREATED_EPITHELIAL_CELLS_24H_DN
S_EL4_TUMOR_BALBC_MONOCYTES_UP, GSE21927_SPLEEN_C57BL6_VS_EL4_TUMOR_BALBC_MONOCYTES_UP
                                                                                                                   WATANABE_RECTAL_CANCER_RADIOTHERAPY_RESPONSIVE_UP, WATANABE_RECTAL_CANCER_RADIOTHERAPY_RESPONSIVE_UP
                                                                                                                   GSE3982_DC_VS_CENT_MEMORY_CD4_TCELL_DN, GSE3982_DC_VS_CENT_MEMORY_CD4_TCELL_DN
                                                                                                                   GSE22886_NAIVE_VS_MEMORY_TCELL_UP, GSE22886_NAIVE_VS_MEMORY_TCELL_UP
                                                                                                                    GSE20715_0H_VS_48H_OZONE_LUNG_UP, GSE20715_0H_VS_48H_OZONE_LUNG_UP
                                                                                                                    GSE12845_IGD_POS_BLOOD_VS_DARKZONE_GC_TONSIL_BCELL_UP, GSE12845_IGD_POS_BLOOD_VS_DARKZONE_GC_TONSIL_BCELL_UP
                                                                                                                    GSE3982_EFF_MEMORY_VS_CENT_MEMORY_CD4_TCELL_DN, GSE3982_EFF_MEMORY_VS_CENT_MEMORY_CD4_TCELL_DN
                                                                                                                    GSE2935_UV_INACTIVATED_VS_LIVE_SENDAI_VIRUS_INF_MACROPHAGE_DN, GSE2935_UV_INACTIVATED_VS_LIVE_SENDAI_VIRUS_INF_MACROPHAGE_DN
                                                                                                                    GSE21063_3H_VS_16H_ANTI_IGM_STIM_BCELL_UP, GSE21063_3H_VS_16H_ANTI_IGM_STIM_BCELL_UP
                                                                                                                   KEGG_APOPTOSIS, KEGG_APOPTOSIS
                                                                                                                   GSE14415_INDUCED_VS_NATURAL_TREG_UP, GSE14415_INDUCED_VS_NATURAL_TREG_UP
                                                                                                                   GO_VASCULAR_ENDOTHELIAL_GROWTH_FACTOR_RECEPTOR_SIGNALING_PATHWAY, GO_VASCULAR_ENDOTHELIAL_GROWTH_FACTOR_RECEPTOR_SIGNALING_PAT
                                                                                                                   GSE22886_IGM_MEMORY_BCELL_VS_BLOOD_PLASMA_CELL_UP, GSE22886_IGM_MEMORY_BCELL_VS_BLOOD_PLASMA_CELL_UP
                                                                                                                    GSE9006_TYPE_1_DIABETES_AT_DX_VS_1MONTH_POST_DX_PBMC_DN, GSE9006_TYPE_1_DIABETES_AT_DX_VS_1MONTH_POST_DX_PBMC_DN
                                                                                                                   GSE36476_CTRL_VS_TSST_ACT_72H_MEMORY_CD4_TCELL_OLD_UP, GSE36476_CTRL_VS_TSST_ACT_72H_MEMORY_CD4_TCELL_OLD_UP
                                                                                                                    ATGCTGG_MIR338, ATGCTGG_MIR338
                                                                                                                   GSE7568_IL4_VS_IL4_AND_DEXAMETHASONE_TREATED_MACROPHAGE_DN, GSE7568_IL4_VS_IL4_AND_DEXAMETHASONE_TREATED_MACROPHAGE_DN
                                                                                                                   GSE22025_TGFB1_VS_TGFB1_AND_PROGESTERONE_TREATED_CD4_TCELL_UP, GSE22025_TGFB1_VS_TGFB1_AND_PROGESTERONE_TREATED_CD4_TCELL_UP
                                                                                                                   MORI_MATURE_B_LYMPHOCYTE_UP, MORI_MATURE_B_LYMPHOCYTE_UP
                                                                                                                   HOEBEKE LYMPHOID STEM CELL UP, HOEBEKE LYMPHOID STEM CELL UP
                                                                                                                   GSE3982_MAC_VS_NEUTROPHIL_DN, GSE3982_MAC_VS_NEUTROPHIL_DN
                                                                                                                   ATAGGAA_MIR202, ATAGGAA_MIR202
                                                                                                                   GSE12003_MIR223_KO_VS_WT_BM_PROGENITOR_8D_CULTURE_UP, GSE12003_MIR223_KO_VS_WT_BM_PROGENITOR_8D_CULTURE_UP
                                                                                                                   GGCACTT_MIR519E, GGCACTT_MIR519E
                                                                                                                   RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATELY_UP, RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATELY_UP
                                                                                                                   GSE3982 EFF MEMORY CD4 TCELL VS TH1 UP, GSE3982 EFF MEMORY CD4 TCELL VS TH1 UP
                                                                                                                   GNF2_ITGAL, GNF2_ITGAL
                                                                                                                   GSE3982_EFF_MEMORY_CD4_TCELL_VS_TH2_UP, GSE3982_EFF_MEMORY_CD4_TCELL_VS_TH2_UP
                                                                                                                   GSE5455_EX_VIVO_VS_POST_24H_INCUBATION_MONOCYTES_FROM_TUMOR_BEARING_MOUSE_DN, GSE5455_EX_VIVO_VS_POST_24H_INCUBATION_MONOCYTES_FROM_
                                                                                                                   GSE3982_MAST_CELL_VS_CENT_MEMORY_CD4_TCELL_DN, GSE3982_MAST_CELL_VS_CENT_MEMORY_CD4_TCELL_DN
                                                                                                                   GO ESTABLISHMENT OF PROTEIN LOCALIZATION TO PLASMA MEMBRANE, GO ESTABLISHMENT OF PROTEIN LOCALIZATION TO PLASMA MEMBRANE
                                                                                                                   GO_METHYLATED_HISTONE_BINDING, GO_METHYLATED_HISTONE_BINDING
                                                                                                                   KYNG_ENVIRONMENTAL_STRESS_RESPONSE_NOT_BY_GAMMA_IN_WS, KYNG_ENVIRONMENTAL_STRESS_RESPONSE_NOT_BY_GAMMA_IN_WS
                                                                                                                   TCCAGAT_MIR5165P, TCCAGAT_MIR5165P
                                                                                                                   GSE20715_0H_VS_48H_OZONE_TLR4_KO_LUNG_UP, GSE20715_0H_VS_48H_OZONE_TLR4_KO_LUNG_UP
                                                                                                                   CREBP1_01, CREBP1_01
                                                                                                                   ATF_B, ATF_B
                                                                                                                   BROWNE_HCMV_INFECTION_24HR_UP, BROWNE_HCMV_INFECTION_24HR_UP
                                                                                                                   GSE21063_WT_VS_NFATC1_KO_3H_ANTI_IGM_STIM_BCELL_UP, GSE21063_WT_VS_NFATC1_KO_3H_ANTI_IGM_STIM_BCELL_UP
                                                                                                                   MODULE_237, MODULE_237
                                                                                                                   GNF2_SNRK, GNF2_SNRK
                                                                                                                   PID_BCR_5PATHWAY, PID_BCR_5PATHWAY
                                                                                                                   TGFB_UP.V1_DN, TGFB_UP.V1_DN
                                                                                                                   GSE6875_TCONV_VS_FOXP3_KO_TREG_UP, GSE6875_TCONV_VS_FOXP3_KO_TREG_UP
                                                                                                                   INGRAM_SHH_TARGETS_UP, INGRAM_SHH_TARGETS_UP
                                                                                                                   BROWNE_HCMV_INFECTION_12HR_DN, BROWNE_HCMV_INFECTION_12HR_DN
                                                                                                                   TGCAAAC_MIR452, TGCAAAC_MIR452
                                                                                                                   GSE15930_NAIVE_VS_48H_IN_VITRO_STIM_IFNAB_CD8_TCELL_UP, GSE15930_NAIVE_VS_48H_IN_VITRO_STIM_IFNAB_CD8_TCELL_UP
                                                                                                                   TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_DN, TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_DN
                                                                                                                   NAKAYAMA_FRA2_TARGETS, NAKAYAMA_FRA2_TARGETS
                                                                                                                   KEGG_NEUROTROPHIN_SIGNALING_PATHWAY, KEGG_NEUROTROPHIN_SIGNALING_PATHWAY
                                                                                                                   GSE32901_NAIVE_VS_TH17_ENRICHED_CD4_TCELL_UP, GSE32901_NAIVE_VS_TH17_ENRICHED_CD4_TCELL_UP
                                                                                                                   GSE17721_LPS_VS_GARDIQUIMOD_2H_BMDC_UP, GSE17721_LPS_VS_GARDIQUIMOD_2H_BMDC_UP
                                                                                                                   GSE3982_BCELL_VS_CENT_MEMORY_CD4_TCELL_DN, GSE3982_BCELL_VS_CENT_MEMORY_CD4_TCELL_DN
                                                                                                                   BROWNE_HCMV_INFECTION_10HR_DN, BROWNE_HCMV_INFECTION_10HR_DN
                                                                                                                   ZHU_CMV_8_HR_DN, ZHU_CMV_8_HR_DN
                                                                                                                   GSE1460_NAIVE_CD4_TCELL_CORD_BLOOD_VS_THYMIC_STROMAL_CELL_UP, GSE1460_NAIVE_CD4_TCELL_CORD_BLOOD_VS_THYMIC_STROMAL_CELL_UP
                                                                                                                   SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN, SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN
                                                                                                                   LEE NEURAL CREST STEM CELL DN, LEE NEURAL CREST STEM CELL DN
                                                                                                                   CHEBOTAEV GR TARGETS DN, CHEBOTAEV GR TARGETS DN
                                                                                                                   KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY, KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY
                                                                                                                   GO REGULATION OF PLATELET ACTIVATION, GO REGULATION OF PLATELET ACTIVATION
                                                                                                                   GUO_HEX_TARGETS_UP, GUO_HEX_TARGETS_UP
                                                                                                                   KEGG_ENDOMETRIAL_CANCER, KEGG_ENDOMETRIAL_CANCER
                                                                                                                   FARDIN_HYPOXIA_11, FARDIN_HYPOXIA_11
                                                                                                                   GO_REGULATION_OF_WOUND_HEALING, GO_REGULATION_OF_WOUND_HEALING
                                                                                                                   GSE16385 MONOCYTE VS MACROPHAGE DN, GSE16385 MONOCYTE VS MACROPHAGE DN
                                                                                                                   GO_ENDOCYTIC_RECYCLING, GO_ENDOCYTIC_RECYCLING
                                                                                                                   GO_POSITIVE_REGULATION_OF_DEVELOPMENTAL_GROWTH, GO_POSITIVE_REGULATION_OF_DEVELOPMENTAL_GROWTH
                                                                                                                   SPIELMAN LYMPHOBLAST EUROPEAN_VS_ASIAN_2FC_DN, SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_2FC_DN
                                                                                                                   GNF2_JAK1, GNF2_JAK1
                                                                                                                   MORF_BNIP1, MORF_BNIP1
                                                                                                                   BHAT ESR1 TARGETS VIA AKT1 DN, BHAT ESR1 TARGETS VIA AKT1 DN
                                                                                                                   WALLACE PROSTATE CANCER RACE DN, WALLACE PROSTATE CANCER RACE DN
                                                                                                                   GO_PROTEIN_SERINE_THREONINE_TYROSINE_KINASE_ACTIVITY, GO_PROTEIN_SERINE_THREONINE_TYROSINE_KINASE_ACTIVITY
                                                                                                                   GGCACAT MIR455, GGCACAT MIR455
                                                                                                                   REACTOME_SIGNALING_BY_ERBB4, REACTOME_SIGNALING_BY_ERBB4
                                                                                                                   GCTCTTG_MIR335, GCTCTTG_MIR335
                                                                                                                   YAO TEMPORAL RESPONSE TO PROGESTERONE CLUSTER 0, YAO TEMPORAL RESPONSE TO PROGESTERONE CLUSTER 0
                                                                                                                   DAVICIONI_RHABDOMYOSARCOMA_PAX_FOXO1_FUSION_DN, DAVICIONI_RHABDOMYOSARCOMA_PAX_FOXO1_FUSION_DN
                                                                                                                   MODULE_456, MODULE_456
                                                                                                                   GO_POSITIVE_REGULATION_OF_MYELOID_CELL_DIFFERENTIATION, GO_POSITIVE_REGULATION_OF_MYELOID_CELL_DIFFERENTIATION
                                                                                                                   FERRANDO T ALL WITH MLL ENL FUSION UP, FERRANDO T ALL WITH MLL ENL FUSION UP
                                                                                                                   GO_REGULATION_OF_MYOBLAST_FUSION, GO_REGULATION_OF_MYOBLAST_FUSION
                                                                                                                   HOSHIDA_LIVER_CANCER_LATE_RECURRENCE_UP, HOSHIDA_LIVER_CANCER_LATE_RECURRENCE_UP
                                                                                                                   MORF PPP2R5B, MORF PPP2R5B
                                                                                                                   WANG METASTASIS OF BREAST CANCER ESR1 DN, WANG METASTASIS OF BREAST CANCER ESR1 DN
                                                                                                                   GO NAD ADP RIBOSYLTRANSFERASE ACTIVITY, GO NAD ADP RIBOSYLTRANSFERASE ACTIVITY
                                                                                                                   NIKOLSKY_OVERCONNECTED_IN_BREAST_CANCER, NIKOLSKY_OVERCONNECTED_IN_BREAST_CANCER
                                                                                                                   REACTOME GAB1 SIGNALOSOME, REACTOME GAB1 SIGNALOSOME
                                                                                                                   PID_TCPTP_PATHWAY, PID_TCPTP_PATHWAY
                                                                                                                   NCX 01, NCX 01
                                                                                                                   GSE360_L_DONOVANI_VS_L_MAJOR_MAC_DN, GSE360_L_DONOVANI_VS_L_MAJOR_MAC_DN
                                                                                                                   KEGG_VEGF_SIGNALING_PATHWAY, KEGG_VEGF_SIGNALING_PATHWAY
                                                                                                                   PID_CD40_PATHWAY, PID_CD40_PATHWAY
                                                                                                                   VALK_AML_CLUSTER_4, VALK_AML_CLUSTER_4
                                                                                                                   GO_REGULATION_OF_SYNCYTIUM_FORMATION_BY_PLASMA_MEMBRANE_FUSION, GO_REGULATION_OF_SYNCYTIUM_FORMATION_BY_PLASMA_MEMBRANE_FUSION
                                                                                                                   YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_1, YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_1
                                                                                                                   WINZEN_DEGRADED_VIA_KHSRP, WINZEN_DEGRADED_VIA_KHSRP
                                                                                                                   GO_ESTABLISHMENT_OF_NUCLEUS_LOCALIZATION, GO_ESTABLISHMENT_OF_NUCLEUS_LOCALIZATION
                                                                                                                   GO_MACROPHAGE_CHEMOTAXIS, GO_MACROPHAGE_CHEMOTAXIS
                                                                                                                   GO_BONE_CELL_DEVELOPMENT, GO_BONE_CELL_DEVELOPMENT
                                                                                                                   GO_GOLGI_RIBBON_FORMATION, GO_GOLGI_RIBBON_FORMATION
                                                                                                                   FERREIRA_EWINGS_SARCOMA_UNSTABLE_VS_STABLE_DN, FERREIRA_EWINGS_SARCOMA_UNSTABLE_VS_STABLE_DN
                                                                                                                   BIOCARTA_LONGEVITY_PATHWAY, BIOCARTA_LONGEVITY_PATHWAY
                                                                                                                   GO_POSITIVE_REGULATION_OF_DENDRITIC_SPINE_DEVELOPMENT, GO_POSITIVE_REGULATION_OF_DENDRITIC_SPINE_DEVELOPMENT
                                                                                                                   HAHTOLA_SEZARY_SYNDROM_DN, HAHTOLA_SEZARY_SYNDROM_DN
                                                                                                                   FREAC7_01, FREAC7_01
                                                                                                                   chr3p13, chr3p13
                                                                                                                   GO_NEGATIVE_REGULATION_OF_PLATELET_ACTIVATION, GO_NEGATIVE_REGULATION_OF_PLATELET_ACTIVATION
                                                                                                                   GO_CHONDROCYTE_DIFFERENTIATION, GO_CHONDROCYTE_DIFFERENTIATION
                                                                                                                   GO_POSITIVE_REGULATION_OF_MYOTUBE_DIFFERENTIATION, GO_POSITIVE_REGULATION_OF_MYOTUBE_DIFFERENTIATION
                                                                                                                   BIOCARTA_ACH_PATHWAY, BIOCARTA_ACH_PATHWAY
                                                                                                                   GO_PEROXISOME_PROLIFERATOR_ACTIVATED_RECEPTOR_BINDING, GO_PEROXISOME_PROLIFERATOR_ACTIVATED_RECEPTOR_BINDING
                                                                                                                   GO_PEPTIDYL_LYSINE_DIMETHYLATION, GO_PEPTIDYL_LYSINE_DIMETHYLATION
                                                                                                                   SA_PTEN_PATHWAY, SA_PTEN_PATHWAY
                                                                                                                   WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_2_DN, WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_2_DN
                                                                                                                   GO_BONE_DEVELOPMENT, GO_BONE_DEVELOPMENT
                                                                                                                   GO_REGULATION_OF_PLATELET_AGGREGATION, GO_REGULATION_OF_PLATELET_AGGREGATION
                                                                                                                   GO_POSITIVE_REGULATION_OF_LIPID_TRANSPORT, GO_POSITIVE_REGULATION_OF_LIPID_TRANSPORT
                                                                                                                   FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_UP, FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_UP
                                                                                                                   GO_HISTONE_H3_K4_TRIMETHYLATION, GO_HISTONE_H3_K4_TRIMETHYLATION
                                                                                                                   GO_NEGATIVE_REGULATION_OF_SYSTEMIC_ARTERIAL_BLOOD_PRESSURE, GO_NEGATIVE_REGULATION_OF_SYSTEMIC_ARTERIAL_BLOOD_PRESSURE
                                                                                                                   GO_NUCLEUS_LOCALIZATION, GO_NUCLEUS_LOCALIZATION
                                                                                                                   GO_NEGATIVE_REGULATION_OF_BLOOD_PRESSURE, GO_NEGATIVE_REGULATION_OF_BLOOD_PRESSURE
                                                                                                                   GO_FILOPODIUM, GO_FILOPODIUM
                                                                                                                   MORF_STK17A, MORF_STK17A
                                                                                                                   BIOCARTA_HCMV_PATHWAY, BIOCARTA_HCMV_PATHWAY
                                                                                                                   GNF2_ZAP70, GNF2_ZAP70
                                                                                                                   GSE18791_UNSTIM_VS_NEWCATSLE_VIRUS_DC_2H_DN, GSE18791_UNSTIM_VS_NEWCATSLE_VIRUS_DC_2H_DN
                                                                                                                   ODONNELL_METASTASIS_UP, ODONNELL_METASTASIS_UP
                                                                                                                   GO_T_CELL_PROLIFERATION, GO_T_CELL_PROLIFERATION
                                                                                                                   ROPERO_HDAC2_TARGETS, ROPERO_HDAC2_TARGETS
                                                                                                                   WILCOX_RESPONSE_TO_PROGESTERONE_DN, WILCOX_RESPONSE_TO_PROGESTERONE_DN
                                                                                                                   CCTGAGT_MIR510, CCTGAGT_MIR510
                                                                                                                   GO_LUNG_ALVEOLUS_DEVELOPMENT, GO_LUNG_ALVEOLUS_DEVELOPMENT
                                                                                                                   GO_COLUMNAR_CUBOIDAL_EPITHELIAL_CELL_DEVELOPMENT, GO_COLUMNAR_CUBOIDAL_EPITHELIAL_CELL_DEVELOPMENT
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GSE21927_SPLENIC_VS_TUMOR_MONOCYTES_FROM_C26GM_TUMOROUS_MICE_BALBC_DN, GSE21927_SPLENIC_VS_TUMOR_MONOCYTES_FROM_C26GM_TUMOR_C26GM_TUMOR_MONOCYTES_FROM_C26GM_TUMOR_C26GM_TUMOR_C26GM_TUMOR_C26GM_TUMOR_C26GM_TUMOR_C26GM_TUMOR_C26GM_TUMOR_C26GM_TUMOR_C26GM_TUMOR_C26GM_TUMOR_C26GM_TUMOR_C26GM_TUMOR_C26GM_TUMOR_C26GM_TUM

GSE25123_CTRL_VS_ROSIGLITAZONE_STIM_MACROPHAGE_UP, GSE25123_CTRL_VS_ROSIGLITAZONE_STIM_MACROPHAGE_UP