

OD\_CD21HIGH\_TRANSITIONAL\_BCELL\_UP, GSE17186\_BLOOD\_VS\_CORD\_BLOOD\_CD21HIGH\_TRANSITIONAL\_BCELL\_UP

GSE22886\_NAIVE\_TCELL\_VS\_MONOCYTE\_DN, GSE22886\_NAIVE\_TCELL\_VS\_MONOCYTE\_DN  
GSE31082\_DP\_VS\_CD8\_SP\_THYMOCYTE\_UP, GSE31082\_DP\_VS\_CD8\_SP\_THYMOCYTE\_UP  
GSE17186\_BLOOD\_VS\_CORD\_BLOOD\_NAIVE\_BCELL\_UP, GSE17186\_BLOOD\_VS\_CORD\_BLOOD\_NAIVE\_BCELL\_UP  
GSE17186\_NAIVE\_VS\_CD21LOW\_TRANSITIONAL\_BCELL\_CORD\_BLOOD\_DN, GSE17186\_NAIVE\_VS\_CD21LOW\_TRANSITIONAL\_BCELL\_CORD\_BLOOD\_DN  
HALLMARK\_MITOTIC\_SPINDLE, HALLMARK\_MITOTIC\_SPINDLE  
GSE36888\_STAT5\_AB\_KNOCKIN\_VS\_WT\_TCELL\_IL2\_TREATED\_6H\_DN, GSE36888\_STAT5\_AB\_KNOCKIN\_VS\_WT\_TCELL\_IL2\_TREATED\_6H\_DN  
GSE21670\_IL6\_VS\_TGFB\_AND\_IL6\_TREATED\_STAT3\_KO\_CD4\_TCELL\_UP, GSE21670\_IL6\_VS\_TGFB\_AND\_IL6\_TREATED\_STAT3\_KO\_CD4\_TCELL\_UP  
GSE22313\_HEALTHY\_VS\_SLE\_MOUSE\_CD4\_TCELL\_DN, GSE22313\_HEALTHY\_VS\_SLE\_MOUSE\_CD4\_TCELL\_DN  
GSE14769\_40MIN\_VS\_360MIN\_LPS\_BMDM\_UP, GSE14769\_40MIN\_VS\_360MIN\_LPS\_BMDM\_UP  
GSE17186\_MEMORY\_VS\_NAIVE\_BCELL\_DN, GSE17186\_MEMORY\_VS\_NAIVE\_BCELL\_DN  
GSE22935\_WT\_VS\_MYD88\_KO\_MACROPHAGE\_UP, GSE22935\_WT\_VS\_MYD88\_KO\_MACROPHAGE\_UP  
GSE40666\_WT\_VS\_STAT1\_KO\_CD8\_TCELL\_DN, GSE40666\_WT\_VS\_STAT1\_KO\_CD8\_TCELL\_DN  
HOXA9\_DN.V1\_DN, HOXA9\_DN.V1\_DN  
GSE5589\_LPS\_VS\_LPS\_AND\_IL10\_STIM\_IL6\_KO\_MACROPHAGE\_180MIN\_UP, GSE5589\_LPS\_VS\_LPS\_AND\_IL10\_STIM\_IL6\_KO\_MACROPHAGE\_180MIN\_UP  
GSE22601\_DOUBLE\_POSITIVE\_VS\_CD8\_SINGLE\_POSITIVE\_THYMOCYTE\_DN, GSE22601\_DOUBLE\_POSITIVE\_VS\_CD8\_SINGLE\_POSITIVE\_THYMOCYTE\_DN  
GSE3039\_CD4\_TCELL\_VS\_B2\_BCELL\_DN, GSE3039\_CD4\_TCELL\_VS\_B2\_BCELL\_DN  
GSE17186\_NAIVE\_VS\_CD21HIGH\_TRANSITIONAL\_BCELL\_DN, GSE17186\_NAIVE\_VS\_CD21HIGH\_TRANSITIONAL\_BCELL\_DN  
GSE41867\_DAY8\_EFFECTOR\_VS\_DAY30\_MEMORY\_CD8\_TCELL\_LCMV\_ARMSTRONG\_DN, GSE41867\_DAY8\_EFFECTOR\_VS\_DAY30\_MEMORY\_CD8\_TCELL\_LCMV\_ARMSTRONG\_DN  
GSE26030\_UNSTIM\_VS\_RESTIM\_TH1\_DAYS\_POST\_POLARIZATION\_DN, GSE26030\_UNSTIM\_VS\_RESTIM\_TH1\_DAYS\_POST\_POLARIZATION\_DN  
GSE17186\_MEMORY\_VS\_CD21LOW\_TRANSITIONAL\_BCELL\_UP, GSE17186\_MEMORY\_VS\_CD21LOW\_TRANSITIONAL\_BCELL\_UP  
GSE37563\_WT\_VS\_CTLA4\_KO\_CD4\_TCELL\_D4\_POST\_IMMUNIZATION\_DN, GSE37563\_WT\_VS\_CTLA4\_KO\_CD4\_TCELL\_D4\_POST\_IMMUNIZATION\_DN  
EPPERT\_PROGENITOR, EPPERT\_PROGENITOR  
GSE17186\_CD21LOW\_VS\_CD21HIGH\_TRANSITIONAL\_BCELL\_CORD\_BLOOD\_UP, GSE17186\_CD21LOW\_VS\_CD21HIGH\_TRANSITIONAL\_BCELL\_CORD\_BLOOD\_UP  
GSE46606\_IRF4MID\_VS\_WT\_CD40L\_IL2\_IL5\_DAY3\_STIMULATED\_BCELL\_UP, GSE46606\_IRF4MID\_VS\_WT\_CD40L\_IL2\_IL5\_DAY3\_STIMULATED\_BCELL\_UP  
GSE21670\_UNTREATED\_VS\_TGFB\_IL6\_TREATED\_CD4\_TCELL\_UP, GSE21670\_UNTREATED\_VS\_TGFB\_IL6\_TREATED\_CD4\_TCELL\_UP  
GSE21670\_TGFB\_VS\_TGFB\_AND\_IL6\_TREATED\_STAT3\_KO\_CD4\_TCELL\_DN, GSE21670\_TGFB\_VS\_TGFB\_AND\_IL6\_TREATED\_STAT3\_KO\_CD4\_TCELL\_DN  
GSE5589\_IL6\_KO\_VS\_IL10\_KO\_LPS\_AND\_IL6\_STIM\_MACROPHAGE\_45MIN\_DN, GSE5589\_IL6\_KO\_VS\_IL10\_KO\_LPS\_AND\_IL6\_STIM\_MACROPHAGE\_45MIN\_DN  
PYEON\_CANCER\_HEAD\_AND\_NECK\_VS\_CERVICAL\_UP, PYEON\_CANCER\_HEAD\_AND\_NECK\_VS\_CERVICAL\_UP  
GSE16385\_IFNG\_TNF\_VS\_IL4\_STIM\_MACROPHAGE\_UP, GSE16385\_IFNG\_TNF\_VS\_IL4\_STIM\_MACROPHAGE\_UP  
GSE30083\_SP3\_VS\_SP4\_THYMOCYTE\_DN, GSE30083\_SP3\_VS\_SP4\_THYMOCYTE\_DN  
GNF2\_CASP1, GNF2\_CASP1  
GO\_KINETOCHORE, GO\_KINETOCHORE  
GSE8921\_UNSTIM\_VS\_TLR1\_2\_STIM\_MONOCYTE\_6H\_DN, GSE8921\_UNSTIM\_VS\_TLR1\_2\_STIM\_MONOCYTE\_6H\_DN  
GSE24210\_TCONV\_VS\_TREG\_DN, GSE24210\_TCONV\_VS\_TREG\_DN  
GSE15735\_2H\_VS\_12H\_HDAC\_INHIBITOR\_TREATED\_CD4\_TCELL\_DN, GSE15735\_2H\_VS\_12H\_HDAC\_INHIBITOR\_TREATED\_CD4\_TCELL\_DN  
GSE36078\_UNTREATED\_VS\_AD5\_INF\_MOUSE\_LUNG\_DC\_DN, GSE36078\_UNTREATED\_VS\_AD5\_INF\_MOUSE\_LUNG\_DC\_DN  
PID\_P53\_REGULATION\_PATHWAY, PID\_P53\_REGULATION\_PATHWAY  
GSE45365\_WT\_VS\_IFNAR\_KO\_CD11B\_DC\_DN, GSE45365\_WT\_VS\_IFNAR\_KO\_CD11B\_DC\_DN  
GSE5589\_LPS\_AND\_IL10\_VS\_LPS\_AND\_IL6\_STIM\_IL10\_KO\_MACROPHAGE\_45MIN\_DN, GSE5589\_LPS\_AND\_IL10\_VS\_LPS\_AND\_IL6\_STIM\_IL10\_KO\_MACROPHAGE\_45MIN\_DN  
GSE21670\_STAT3\_KO\_VS\_WT\_CD4\_TCELL\_IL6\_TREATED\_UP, GSE21670\_STAT3\_KO\_VS\_WT\_CD4\_TCELL\_IL6\_TREATED\_UP  
LIU\_CMYB\_TARGETS\_UP, LIU\_CMYB\_TARGETS\_UP  
GNF2\_HCK, GNF2\_HCK  
MODULE\_397, MODULE\_397  
GSE2770\_UNTREATED\_VS\_IL12\_TREATED\_ACT\_CD4\_TCELL\_6H\_DN, GSE2770\_UNTREATED\_VS\_IL12\_TREATED\_ACT\_CD4\_TCELL\_6H\_DN  
GSE3982\_MAC\_VS\_TH1\_UP, GSE3982\_MAC\_VS\_TH1\_UP  
RICKMAN\_TUMOR\_DIFFERENTIATED\_MODERATELY\_VS\_POORLY\_UP, RICKMAN\_TUMOR\_DIFFERENTIATED\_MODERATELY\_VS\_POORLY\_UP  
GSE7852\_TREG\_VS\_TCONV\_UP, GSE7852\_TREG\_VS\_TCONV\_UP  
GSE23505\_IL6\_IL1\_VS\_IL6\_IL1\_IL23\_TREATED\_CD4\_TCELL\_UP, GSE23505\_IL6\_IL1\_VS\_IL6\_IL1\_IL23\_TREATED\_CD4\_TCELL\_UP  
GSE2405\_0H\_VS\_24H\_A\_PHAGOCYTOPHILUM\_STIM\_NEUTROPHIL\_DN, GSE2405\_0H\_VS\_24H\_A\_PHAGOCYTOPHILUM\_STIM\_NEUTROPHIL\_DN  
GSE3982\_DC\_VS\_TH2\_UP, GSE3982\_DC\_VS\_TH2\_UP  
GSE20715\_WT\_VS\_TLR4\_KO\_24H\_OZONE\_LUNG\_UP, GSE20715\_WT\_VS\_TLR4\_KO\_24H\_OZONE\_LUNG\_UP  
GO\_REGULATION\_OF\_PROTEIN\_IMPORT, GO\_REGULATION\_OF\_PROTEIN\_IMPORT  
GSE6259\_CD4\_TCELL\_VS\_CD8\_TCELL\_UP, GSE6259\_CD4\_TCELL\_VS\_CD8\_TCELL\_UP  
GNF2\_PECAM1, GNF2\_PECAM1  
GSE7219\_UNSTIM\_VS\_LPS\_AND\_ANTI\_CD40\_STIM\_DC\_DN, GSE7219\_UNSTIM\_VS\_LPS\_AND\_ANTI\_CD40\_STIM\_DC\_DN  
GO\_REGULATION\_OF\_STRESS\_ACTIVATED\_PROTEIN\_KINASE\_SIGNALING\_CASCADE, GO\_REGULATION\_OF\_STRESS\_ACTIVATED\_PROTEIN\_KINASE\_SIGNALING\_CASCADE  
GO\_MODULATION\_BY\_VIRUS\_OF\_HOST\_MORPHOLOGY\_OR\_PHYSIOLOGY, GO\_MODULATION\_BY\_VIRUS\_OF\_HOST\_MORPHOLOGY\_OR\_PHYSIOLOGY  
GO\_OXIDOREDUCTASE\_ACTIVITY\_ACTING\_ON\_THE\_CH\_NH2\_GROUP\_OF\_DONORS\_OXYGEN\_AS\_ACCEPTOR, GO\_OXIDOREDUCTASE\_ACTIVITY\_ACTING\_ON\_THE\_CH\_NH2\_GROUP\_OF\_DONORS\_OXYGEN\_AS\_ACCEPTOR  
GSE11961\_MARGINAL\_ZONE\_BCELL\_VS\_GERMINAL\_CENTER\_BCELL\_DAY40\_DN, GSE11961\_MARGINAL\_ZONE\_BCELL\_VS\_GERMINAL\_CENTER\_BCELL\_DAY40\_DN  
SCIBETTA\_KDM5B\_TARGETS\_DN, SCIBETTA\_KDM5B\_TARGETS\_DN  
GO\_REGULATION\_OF\_INTERLEUKIN\_6\_PRODUCTION, GO\_REGULATION\_OF\_INTERLEUKIN\_6\_PRODUCTION  
BIOCARTA\_P38MAPK\_PATHWAY, BIOCARTA\_P38MAPK\_PATHWAY  
TCCAGAT\_MIR5165P, TCCAGAT\_MIR5165P  
GO\_ENDOPLASMIC\_RETICULUM\_LUMEN, GO\_ENDOPLASMIC\_RETICULUM\_LUMEN  
WEIGEL\_OXIDATIVE\_STRESS\_BY\_HNE\_AND\_H2O2, WEIGEL\_OXIDATIVE\_STRESS\_BY\_HNE\_AND\_H2O2  
GO\_RESPONSE\_TO\_FLUID\_SHEAR\_STRESS, GO\_RESPONSE\_TO\_FLUID\_SHEAR\_STRESS  
GO\_POSITIVE\_REGULATION\_OF\_STRESS\_ACTIVATED\_PROTEIN\_KINASE\_SIGNALING\_CASCADE, GO\_POSITIVE\_REGULATION\_OF\_STRESS\_ACTIVATED\_PROTEIN\_KINASE\_SIGNALING\_CASCADE  
BREDEMEYER\_RAG\_SIGNALING\_NOT\_VIA\_ATM\_DN, BREDEMEYER\_RAG\_SIGNALING\_NOT\_VIA\_ATM\_DN  
HASLINGER\_B\_CLL\_WITH\_CHROMOSOME\_12\_TRISOMY, HASLINGER\_B\_CLL\_WITH\_CHROMOSOME\_12\_TRISOMY  
LEE\_NEURAL\_CREST\_STEM\_CELL\_UP, LEE\_NEURAL\_CREST\_STEM\_CELL\_UP  
GSE22886\_NAIVE\_CD4\_TCELL\_VS\_NEUTROPHIL\_DN, GSE22886\_NAIVE\_CD4\_TCELL\_VS\_NEUTROPHIL\_DN  
GSE25677\_MPL\_VS\_MPL\_AND\_R848\_STIM\_BCELL\_DN, GSE25677\_MPL\_VS\_MPL\_AND\_R848\_STIM\_BCELL\_DN  
GO\_REGULATION\_OF\_VASCULAR\_ENDOTHELIAL\_GROWTH\_FACTOR\_PRODUCTION, GO\_REGULATION\_OF\_VASCULAR\_ENDOTHELIAL\_GROWTH\_FACTOR\_PRODUCTION  
GNF2\_CD14, GNF2\_CD14  
GSE45365\_HEALTHY\_VS\_MCMV\_INFECTION\_CD8\_TCELL\_IFNAR\_KO\_UP, GSE45365\_HEALTHY\_VS\_MCMV\_INFECTION\_CD8\_TCELL\_IFNAR\_KO\_UP  
GTCTACC\_MIR379, GTCTACC\_MIR379  
GO\_CORTICAL\_CYTOSKELETON\_ORGANIZATION, GO\_CORTICAL\_CYTOSKELETON\_ORGANIZATION  
GAUSSMANN\_MLL\_AF4\_FUSION\_TARGETS\_E\_UP, GAUSSMANN\_MLL\_AF4\_FUSION\_TARGETS\_E\_UP  
GO\_SEMAPHORIN\_RECEPTOR\_BINDING, GO\_SEMAPHORIN\_RECEPTOR\_BINDING  
GO\_LIPOPOLYSACCHARIDE\_MEDIATED\_SIGNALING\_PATHWAY, GO\_LIPOPOLYSACCHARIDE\_MEDIATED\_SIGNALING\_PATHWAY  
GENTLES\_LEUKEMIC\_STEM\_CELL\_DN, GENTLES\_LEUKEMIC\_STEM\_CELL\_DN  
GO\_PHOTORECEPTOR\_CONNECTING\_CILIUUM, GO\_PHOTORECEPTOR\_CONNECTING\_CILIUUM  
GO\_CILIARY\_TRANSITION\_ZONE, GO\_CILIARY\_TRANSITION\_ZONE  
MYLLYKANGAS\_AMPLIFICATION\_HOT\_SPOT\_15, MYLLYKANGAS\_AMPLIFICATION\_HOT\_SPOT\_15  
GO\_PROTEIN\_KINASE\_B\_SIGNALING, GO\_PROTEIN\_KINASE\_B\_SIGNALING  
GSE40274\_FOXP3\_VS\_FOXP3\_AND\_SATB1\_TRANSDUCECD4\_TCELL\_UP, GSE40274\_FOXP3\_VS\_FOXP3\_AND\_SATB1\_TRANSDUCECD4\_TCELL\_UP  
GO\_REGULATION\_OF\_CALCIUM\_MEDIATED\_SIGNALING, GO\_REGULATION\_OF\_CALCIUM\_MEDIATED\_SIGNALING  
REACTOME\_DOWNREGULATION\_OF\_ERBB2\_ERBB3\_SIGNALING, REACTOME\_DOWNREGULATION\_OF\_ERBB2\_ERBB3\_SIGNALING  
GO\_RESPONSE\_TO\_LAMINAR\_FLUID\_SHEAR\_STRESS, GO\_RESPONSE\_TO\_LAMINAR\_FLUID\_SHEAR\_STRESS  
GSE32423\_MEMORY\_VS\_NAIVE\_CD8\_TCELL\_IL7\_IL4\_UP, GSE32423\_MEMORY\_VS\_NAIVE\_CD8\_TCELL\_IL7\_IL4\_UP  
PID\_ERBB2\_ERBB3\_PATHWAY, PID\_ERBB2\_ERBB3\_PATHWAY  
GO\_PROTEIN\_FOLDING\_IN\_ENDOPLASMIC\_RETICULUM, GO\_PROTEIN\_FOLDING\_IN\_ENDOPLASMIC\_RETICULUM  
REACTOME\_ACTIVATION\_OF\_CHAPERONES\_BY\_ATF6\_ALPHA, REACTOME\_ACTIVATION\_OF\_CHAPERONES\_BY\_ATF6\_ALPHA