

GSE43863\_TH1\_VS\_LY6C\_LOW\_CXCR5NEG\_EFFECTOR\_CD4\_TCELL\_DN, GSE43863\_TH1\_VS\_LY6C\_LOW\_CXCR5NEG\_EFFECTOR\_CD4\_TCELL\_DN  
GSE20151\_CTRL\_VS\_FUSOBACT\_NUCLEATUM\_NEUTROPHIL\_DN, GSE20151\_CTRL\_VS\_FUSOBACT\_NUCLEATUM\_NEUTROPHIL\_DN  
GSE6259\_FLT3L\_INDUCED\_33D1\_POS\_DC\_VS\_BCELL\_DN, GSE6259\_FLT3L\_INDUCED\_33D1\_POS\_DC\_VS\_BCELL\_DN  
GSE12392\_CD8A\_POS\_VS\_NEG\_SPLEEN\_IFNB\_KO\_DC\_DN, GSE12392\_CD8A\_POS\_VS\_NEG\_SPLEEN\_IFNB\_KO\_DC\_DN  
GSE43955\_1H\_VS\_42H\_ACT\_CD4\_TCELL\_UP, GSE43955\_1H\_VS\_42H\_ACT\_CD4\_TCELL\_UP  
GSE15930\_STIM\_VS\_STIM\_AND\_TRICHOSTATINA\_24H\_CD8\_T\_CELL\_DN, GSE15930\_STIM\_VS\_STIM\_AND\_TRICHOSTATINA\_24H\_CD8\_T\_CELL\_DN  
GSE44649\_NAIVE\_VS\_ACTIVATED\_CD8\_TCELL\_UP, GSE44649\_NAIVE\_VS\_ACTIVATED\_CD8\_TCELL\_UP  
GSE22443\_NAIVE\_VS\_ACT\_AND\_IL12\_TREATED\_CD8\_TCELL\_UP, GSE22443\_NAIVE\_VS\_ACT\_AND\_IL12\_TREATED\_CD8\_TCELL\_UP  
GSE43955\_1H\_VS\_20H\_ACT\_CD4\_TCELL\_WITH\_TGFB\_IL6\_UP, GSE43955\_1H\_VS\_20H\_ACT\_CD4\_TCELL\_WITH\_TGFB\_IL6\_UP  
GOLDRATH\_NAIVE\_VS\_MEMORY\_CD8\_TCELL\_UP, GOLDRATH\_NAIVE\_VS\_MEMORY\_CD8\_TCELL\_UP  
GSE24671\_CTRL\_VS\_SENDAI\_VIRUS\_INFECTED\_MOUSE\_SPLENOCYTES\_DN, GSE24671\_CTRL\_VS\_SENDAI\_VIRUS\_INFECTED\_MOUSE\_SPLENOCYTES\_DN  
GSE32164\_ALTERNATIVELY\_ACT\_M2\_VS\_CMYC\_INHIBITED\_MACROPHAGE\_UP, GSE32164\_ALTERNATIVELY\_ACT\_M2\_VS\_CMYC\_INHIBITED\_MACROPHAGE\_UP  
GSE23502\_WT\_VS\_HDC\_KO\_MYELOID\_DERIVED\_SUPPRESSOR\_CELL\_BM\_UP, GSE23502\_WT\_VS\_HDC\_KO\_MYELOID\_DERIVED\_SUPPRESSOR\_CELL\_BM\_UP  
GSE1925\_CTRL\_VS\_IFNG\_PRIMED\_MACROPHAGE\_DN, GSE1925\_CTRL\_VS\_IFNG\_PRIMED\_MACROPHAGE\_DN  
GSE23568\_ID3\_TRANSDUCED\_VS\_ID3\_KO\_CD8\_TCELL\_DN, GSE23568\_ID3\_TRANSDUCED\_VS\_ID3\_KO\_CD8\_TCELL\_DN  
KAECH\_NAIVE\_VS\_DAY15\_EFF\_CD8\_TCELL\_UP, KAECH\_NAIVE\_VS\_DAY15\_EFF\_CD8\_TCELL\_UP  
GSE33425\_CD161\_HIGH\_VS\_INT\_CD8\_TCELL\_UP, GSE33425\_CD161\_HIGH\_VS\_INT\_CD8\_TCELL\_UP  
GSE3982\_BASOPHIL\_VS\_TH2\_UP, GSE3982\_BASOPHIL\_VS\_TH2\_UP  
GSE339\_CD8POS\_VS\_CD4CD8DN\_DC\_DN, GSE339\_CD8POS\_VS\_CD4CD8DN\_DC\_DN  
GSE42021\_TCONV\_PLN\_VS\_CD24LO\_TCONV\_THYMUS\_UP, GSE42021\_TCONV\_PLN\_VS\_CD24LO\_TCONV\_THYMUS\_UP  
GSE7548\_DAY7\_VS\_DAY28\_PCC\_IMMUNIZATION\_CD4\_TCELL\_DN, GSE7548\_DAY7\_VS\_DAY28\_PCC\_IMMUNIZATION\_CD4\_TCELL\_DN  
GSE2706\_LPS\_VS\_R848\_AND\_LPS\_8H\_STIM\_DC\_UP, GSE2706\_LPS\_VS\_R848\_AND\_LPS\_8H\_STIM\_DC\_UP  
GSE24574\_BCL6\_LOW\_TFH\_VS\_NAIVE\_CD4\_TCELL\_UP, GSE24574\_BCL6\_LOW\_TFH\_VS\_NAIVE\_CD4\_TCELL\_UP  
GSE16451\_CTRL\_VS\_WEST\_EQUINE\_ENC\_VIRUS\_IMMATURE\_NEURON\_CELL\_LINE\_UP, GSE16451\_CTRL\_VS\_WEST\_EQUINE\_ENC\_VIRUS\_IMMATURE\_NEURON\_CELL\_LINE\_UP  
GSE3039\_ALPHABETA\_CD8\_TCELL\_VS\_B2\_BCELL\_UP, GSE3039\_ALPHABETA\_CD8\_TCELL\_VS\_B2\_BCELL\_UP  
GSE27786\_CD8\_TCELL\_VS\_NEUTROPHIL\_DN, GSE27786\_CD8\_TCELL\_VS\_NEUTROPHIL\_DN  
GSE37532\_WT\_VS\_PPARG\_KO\_VISCERAL\_ADIPOSE\_TISSUE\_TCONV\_UP, GSE37532\_WT\_VS\_PPARG\_KO\_VISCERAL\_ADIPOSE\_TISSUE\_TCONV\_UP  
GSE15330\_MEGAKARYOCYTE\_ERYTHROID\_VS GRANULOCYTE MONOCYTE PROGENITOR\_IKAROS\_KO\_DN, GSE15330\_MEGAKARYOCYTE\_ERYTHROID\_VS GRANULOCYTE MONOCYTE PROGENITOR\_IKAROS\_KO\_DN  
GSE33292\_WT\_VS\_TCF1\_KO\_DN3\_THYMOCYTE\_UP, GSE33292\_WT\_VS\_TCF1\_KO\_DN3\_THYMOCYTE\_UP  
GSE28726\_NAIVE\_VS\_ACTIVATED\_NKTCELL\_UP, GSE28726\_NAIVE\_VS\_ACTIVATED\_NKTCELL\_UP  
GSE37301\_MULTIPOTENT\_PROGENITOR\_VS\_LYMPHOID\_PRIMED\_MPP\_UP, GSE37301\_MULTIPOTENT\_PROGENITOR\_VS\_LYMPHOID\_PRIMED\_MPP\_UP  
GSE23114\_WT\_VS\_SLE2C1\_MOUSE\_SPLEEN\_B1A\_BCELL\_DN, GSE23114\_WT\_VS\_SLE2C1\_MOUSE\_SPLEEN\_B1A\_BCELL\_DN  
GSE7831\_UNSTIM\_VS\_INFLUENZA\_STIM\_PDC\_4H\_UP, GSE7831\_UNSTIM\_VS\_INFLUENZA\_STIM\_PDC\_4H\_UP  
GSE18281\_SUBCAPSULAR\_CORTICAL\_REGION\_VS\_WHOLE\_MEDULLA\_THYMUS\_UP, GSE18281\_SUBCAPSULAR\_CORTICAL\_REGION\_VS\_WHOLE\_MEDULLA\_THYMUS\_UP  
GSE21927\_SPLEEN\_VS\_TUMOR\_MONOCYTE\_BALBC\_DN, GSE21927\_SPLEEN\_VS\_TUMOR\_MONOCYTE\_BALBC\_DN  
GSE40274\_CTRL\_VS\_FOXP3\_AND\_XBP1\_TRANSDUCED\_ACTIVATED\_CD4\_TCELL\_DN, GSE40274\_CTRL\_VS\_FOXP3\_AND\_XBP1\_TRANSDUCED\_ACTIVATED\_CD4\_TCELL\_DN  
GSE18281\_PERIMEDULLARY\_CORTICAL\_REGION\_VS\_WHOLE\_CORTEX\_THYMUS\_UP, GSE18281\_PERIMEDULLARY\_CORTICAL\_REGION\_VS\_WHOLE\_CORTEX\_THYMUS\_UP  
GSE37301\_MULTIPOTENT\_PROGENITOR\_VS\_PRO\_BCELL\_UP, GSE37301\_MULTIPOTENT\_PROGENITOR\_VS\_PRO\_BCELL\_UP  
ZHENG\_CORD\_BLOOD\_C4\_PUTATIVE\_EARLY\_ERYTHROID\_COMMITMENT, ZHENG\_CORD\_BLOOD\_C4\_PUTATIVE\_EARLY\_ERYTHROID\_COMMITMENT  
GSE2826\_WT\_VS\_BTK\_KO\_BCELL\_DN, GSE2826\_WT\_VS\_BTK\_KO\_BCELL\_DN  
GSE43955\_10H\_VS\_30H\_ACT\_CD4\_TCELL\_WITH\_TGFB\_IL6\_DN, GSE43955\_10H\_VS\_30H\_ACT\_CD4\_TCELL\_WITH\_TGFB\_IL6\_DN  
GSE27241\_WT\_VS\_RORGT\_KO\_TH17\_POLARIZED\_CD4\_TCELL\_TREATED\_WITH\_DIGOXIN\_DN, GSE27241\_WT\_VS\_RORGT\_KO\_TH17\_POLARIZED\_CD4\_TCELL\_TREATED\_WITH\_DIGOXIN\_DN  
GSE24574\_BCL6\_HIGH\_TFH\_VS\_TCONV\_CD4\_TCELL\_UP, GSE24574\_BCL6\_HIGH\_TFH\_VS\_TCONV\_CD4\_TCELL\_UP  
AKT\_UP.V1\_DN, AKT\_UP.V1\_DN  
WP\_RAS\_SIGNALING, WP\_RAS\_SIGNALING  
GOCC\_MICROBODY, GOCC\_MICROBODY  
TSENG\_IRS1\_TARGETS\_DN, TSENG\_IRS1\_TARGETS\_DN  
GSE14415\_ACT\_TCONV\_VS\_ACT\_NATURAL\_TREG\_UP, GSE14415\_ACT\_TCONV\_VS\_ACT\_NATURAL\_TREG\_UP  
KEGG\_ERBB\_SIGNALING\_PATHWAY, KEGG\_ERBB\_SIGNALING\_PATHWAY  
GSE28726\_NAIVE\_CD4\_TCELL\_VS\_NAIVE\_NKTCELL\_DN, GSE28726\_NAIVE\_CD4\_TCELL\_VS\_NAIVE\_NKTCELL\_DN  
CCCNNNNNNAAGWT\_UNKNOWN, CCCNNNNNNAAGWT\_UNKNOWN  
GOBP\_NUCLEAR\_ENVELOPE\_ORGANIZATION, GOBP\_NUCLEAR\_ENVELOPE\_ORGANIZATION  
HP\_LOSS\_OF\_SPEECH, HP\_LOSS\_OF\_SPEECH  
KEGG\_PHOSPHATIDYLINOSITOL\_SIGNALING\_SYSTEM, KEGG\_PHOSPHATIDYLINOSITOL\_SIGNALING\_SYSTEM  
LINDSTEDT\_DENDRITIC\_CELL\_MATURATION\_D, LINDSTEDT\_DENDRITIC\_CELL\_MATURATION\_D  
HP\_ABNORMAL\_TISSUE\_METABOLITE\_CONCENTRATION, HP\_ABNORMAL\_TISSUE\_METABOLITE\_CONCENTRATION  
GOBP\_LONG\_CHAIN\_FATTY\_ACID\_METABOLIC\_PROCESS, GOBP\_LONG\_CHAIN\_FATTY\_ACID\_METABOLIC\_PROCESS  
GSE22501\_PERIPHERAL\_BLOOD\_VS\_CORD\_BLOOD\_TREG\_UP, GSE22501\_PERIPHERAL\_BLOOD\_VS\_CORD\_BLOOD\_TREG\_UP  
GSE28726\_NAIVE\_VS\_ACTIVATED\_VA24NEG\_NKTCELL\_DN, GSE28726\_NAIVE\_VS\_ACTIVATED\_VA24NEG\_NKTCELL\_DN  
PID\_PSI\_PATHWAY, PID\_PSI\_PATHWAY  
GSE30083\_SP2\_VS\_SP3\_THYMOCYTE\_DN, GSE30083\_SP2\_VS\_SP3\_THYMOCYTE\_DN  
MODULE\_170, MODULE\_170  
MODULE\_79, MODULE\_79  
MODULE\_128, MODULE\_128  
ROSS\_ACUTE\_MYELOID\_LEUKEMIA\_CBF, ROSS\_ACUTE\_MYELOID\_LEUKEMIA\_CBF  
HP\_HYPERINTENSITY\_OF\_CEREBRAL\_WHITE\_MATTER\_ON\_MRI, HP\_HYPERINTENSITY\_OF\_CEREBRAL\_WHITE\_MATTER\_ON\_MRI  
MIR5094, MIR5094  
YU\_MYC\_TARGETS\_DN, YU\_MYC\_TARGETS\_DN  
GSE360\_L\_DONOVANI\_VS\_T\_GONDII\_DC\_UP, GSE360\_L\_DONOVANI\_VS\_T\_GONDII\_DC\_UP  
GOBP\_REGULATION\_OF\_CATION\_CHANNEL\_ACTIVITY, GOBP\_REGULATION\_OF\_CATION\_CHANNEL\_ACTIVITY  
VALK\_AML\_CLUSTER\_9, VALK\_AML\_CLUSTER\_9  
MIR146B\_3P, MIR146B\_3P  
GOBP\_MEMBRANE\_DEPOLARIZATION, GOBP\_MEMBRANE\_DEPOLARIZATION  
GOBP\_OLEFINIC\_COMPOUND\_METABOLIC\_PROCESS, GOBP\_OLEFINIC\_COMPOUND\_METABOLIC\_PROCESS  
SUBTIL\_PROGESTIN\_TARGETS, SUBTIL\_PROGESTIN\_TARGETS  
GOMF\_ION\_CHANNEL\_REGULATOR\_ACTIVITY, GOMF\_ION\_CHANNEL\_REGULATOR\_ACTIVITY  
WP\_PHOTODYNAMIC\_THERAPYINDUCED\_NFE2L2\_NRF2\_SURVIVAL\_SIGNALING, WP\_PHOTODYNAMIC\_THERAPYINDUCED\_NFE2L2\_NRF2\_SURVIVAL\_SIGNALING  
GOBP\_UNSATURATED\_FATTY\_ACID\_METABOLIC\_PROCESS, GOBP\_UNSATURATED\_FATTY\_ACID\_METABOLIC\_PROCESS  
HMEF2\_Q6, HMEF2\_Q6  
HP\_GENERALIZED\_CLONIC\_SEIZURE, HP\_GENERALIZED\_CLONIC\_SEIZURE  
PID\_ERBB4\_PATHWAY, PID\_ERBB4\_PATHWAY  
STEARMAN\_TUMOR\_FIELD\_EFFECT\_UP, STEARMAN\_TUMOR\_FIELD\_EFFECT\_UP  
GENTLES\_LEUKEMIC\_STEM\_CELL\_DN, GENTLES\_LEUKEMIC\_STEM\_CELL\_DN  
GSE34156\_UNTREATED\_VS\_24H\_NOD2\_AND\_TLR1\_TLR2\_LIGAND\_TREATED\_MONOCYTE\_DN, GSE34156\_UNTREATED\_VS\_24H\_NOD2\_AND\_TLR1\_TLR2\_LIGAND\_TREATED\_MONOCYTE\_DN  
WP\_MAPK\_PATHWAY\_IN\_CONGENITAL\_THYROID\_CANCER, WP\_MAPK\_PATHWAY\_IN\_CONGENITAL\_THYROID\_CANCER  
YWATTWNNRGCT\_UNKNOWN, YWATTWNNRGCT\_UNKNOWN  
GOBP\_NEGATIVE\_REGULATION\_OF\_CELLULAR\_SENESCENCE, GOBP\_NEGATIVE\_REGULATION\_OF\_CELLULAR\_SENESCENCE  
HP\_PARANOIA, HP\_PARANOIA  
MADAN\_DPPA4\_TARGETS, MADAN\_DPPA4\_TARGETS  
GOBP\_MEMBRANE\_DEPOLARIZATION\_DURING\_CARDIAC\_MUSCLE\_CELL\_ACTION\_POTENTIAL, GOBP\_MEMBRANE\_DEPOLARIZATION\_DURING\_CARDIAC\_MUSCLE\_CELL\_ACTION\_POTENTIAL  
KIM\_GLI52\_TARGETS\_UP, KIM\_GLI52\_TARGETS\_UP  
REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_PLURIPOTENT\_STEM\_CELLS, REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_PLURIPOTENT\_STEM\_CELLS  
ZHENG\_GLIOBLASTOMA\_PLASTICITY\_DN, ZHENG\_GLIOBLASTOMA\_PLASTICITY\_DN  
GOBP\_NEGATIVE\_REGULATION\_OF\_VASCULAR\_ASSOCIATED\_SMOOTH\_MUSCLE\_CELL\_DIFFERENTIATION, GOBP\_NEGATIVE\_REGULATION\_OF\_VASCULAR\_ASSOCIATED\_SMOOTH\_MUSCLE\_CELL\_DIFFERENTIATION