

F\_AND\_IFNG\_STIM\_NEUTROPHIL\_UP, GSE22103\_LPS\_VS\_GMCSF\_AND\_IFNG\_STIM\_NEUTROPHIL\_UP

GSE22589\_HEALTHY\_VS\_HIV\_AND\_SIV\_INFECTED\_DC\_DN, GSE22589\_HEALTHY\_VS\_HIV\_AND\_SIV\_INFECTED\_DC\_DN  
GSE15930\_STIM\_VS\_STIM\_AND\_IFNAB\_48H\_CD8\_T\_CELL\_UP, GSE15930\_STIM\_VS\_STIM\_AND\_IFNAB\_48H\_CD8\_T\_CELL\_UP  
GSE20754\_WT\_VS\_TCF1\_KO\_MEMORY\_CD8\_TCELL\_DN, GSE20754\_WT\_VS\_TCF1\_KO\_MEMORY\_CD8\_TCELL\_DN  
GSE23695\_CD57\_POS\_VS\_NEG\_NK\_CELL\_DN, GSE23695\_CD57\_POS\_VS\_NEG\_NK\_CELL\_DN  
GSE5589\_WT\_VS\_IL10\_KO\_LPS\_AND\_IL10\_STIM\_MACROPHAGE\_45MIN\_UP, GSE5589\_WT\_VS\_IL10\_KO\_LPS\_AND\_IL10\_STIM\_MACROPHAGE\_45MIN\_UP  
MIR4255, MIR4255  
GSE33424\_CD161\_INT\_VS\_NEG\_CD8\_TCELL\_DN, GSE33424\_CD161\_INT\_VS\_NEG\_CD8\_TCELL\_DN  
GSE21774\_CD62L\_POS\_CD56\_BRIGHT\_VS\_CD62L\_NEG\_CD56\_DIM\_NK\_CELL\_DN, GSE21774\_CD62L\_POS\_CD56\_BRIGHT\_VS\_CD62L\_NEG\_CD56\_DIM\_NK\_CELL\_DN  
GSE14415\_INDUCED\_TREG\_VS\_TCONV\_DN, GSE14415\_INDUCED\_TREG\_VS\_TCONV\_DN  
GSE44649\_WT\_VS\_MIR155\_KO\_ACTIVATED\_CD8\_TCELL\_DN, GSE44649\_WT\_VS\_MIR155\_KO\_ACTIVATED\_CD8\_TCELL\_DN  
GSE25087\_FETAL\_VS\_ADULT\_TREG\_DN, GSE25087\_FETAL\_VS\_ADULT\_TREG\_DN  
MIR518C\_5P, MIR518C\_5P  
MIR1251\_3P, MIR1251\_3P  
ZAK\_PBMCMRKAD5\_HIV\_1\_GAG\_POL\_NEF\_AGE\_20\_50YO\_CORRELATED\_WITH\_CD8\_T\_CELL\_RESPONSE\_3DY\_POSITIVE, ZAK\_PBMCMRKAD5\_HIV\_1\_GAG\_POL\_NEF\_AGE\_20\_50YO\_CORRELATED\_WITH\_CD8\_T\_CELL\_RESPONSE\_3DY\_POSITIVE  
GSE12366\_NAIVE\_VS\_MEMORY\_BCELL\_UP, GSE12366\_NAIVE\_VS\_MEMORY\_BCELL\_UP  
MIR5571\_5P, MIR5571\_5P  
MIR2115\_5P, MIR2115\_5P  
MIR4660, MIR4660  
GOBP\_POSITIVE\_REGULATION\_OF\_NEURON\_PROJECTION\_DEVELOPMENT, GOBP\_POSITIVE\_REGULATION\_OF\_NEURON\_PROJECTION\_DEVELOPMENT  
LAKE\_ADULT\_KIDNEY\_C21\_COLLECTING\_DUCT\_INTERCALATED\_CELLS\_TYPE\_B, LAKE\_ADULT\_KIDNEY\_C21\_COLLECTING\_DUCT\_INTERCALATED\_CELLS\_TYPE\_B  
MIR508\_3P, MIR508\_3P  
REACTOME\_RHOQ\_GTPASE\_CYCLE, REACTOME\_RHOQ\_GTPASE\_CYCLE  
HP\_CUTIS\_LAXA, HP\_CUTIS\_LAXA  
GSE17721\_CPG\_VS\_GARDIQUIMOD\_12H\_BMDC\_UP, GSE17721\_CPG\_VS\_GARDIQUIMOD\_12H\_BMDC\_UP  
MIR6736\_3P, MIR6736\_3P  
GOBP\_LONG\_CHAIN\_FATTY\_ACID\_METABOLIC\_PROCESS, GOBP\_LONG\_CHAIN\_FATTY\_ACID\_METABOLIC\_PROCESS  
MIR27B\_5P, MIR27B\_5P  
MIR4438, MIR4438  
GSE27786\_LIN\_NEG\_VS\_ERYTHROBLAST\_DN, GSE27786\_LIN\_NEG\_VS\_ERYTHROBLAST\_DN  
MIR6871\_5P, MIR6871\_5P  
HP\_HOARSE\_VOICE, HP\_HOARSE\_VOICE  
MOLENAAR\_TARGETS\_OF\_CCND1\_AND\_CDK4\_UP, MOLENAAR\_TARGETS\_OF\_CCND1\_AND\_CDK4\_UP  
GOBP\_OLEFINIC\_COMPOUND\_METABOLIC\_PROCESS, GOBP\_OLEFINIC\_COMPOUND\_METABOLIC\_PROCESS  
GOBP\_UNSATURATED\_FATTY\_ACID\_METABOLIC\_PROCESS, GOBP\_UNSATURATED\_FATTY\_ACID\_METABOLIC\_PROCESS  
GOBP\_ENDOTHELIUM\_DEVELOPMENT, GOBP\_ENDOTHELIUM\_DEVELOPMENT  
GOBP\_REGULATION\_OF\_DENDRITIC\_SPINE\_MORPHOGENESIS, GOBP\_REGULATION\_OF\_DENDRITIC\_SPINE\_MORPHOGENESIS  
PRMT5\_TARGET\_GENES, PRMT5\_TARGET\_GENES  
TOMLINS\_PROSTATE\_CANCER\_DN, TOMLINS\_PROSTATE\_CANCER\_DN  
GSE21927\_SPLENIC\_C26GM\_TUMOROUS\_VS\_BONE\_MARROW\_MONOCYTES\_UP, GSE21927\_SPLENIC\_C26GM\_TUMOROUS\_VS\_BONE\_MARROW\_MONOCYTES\_UP  
MIR486\_5P, MIR486\_5P  
GOBP\_REGULATION\_OF\_DENDRITE\_DEVELOPMENT, GOBP\_REGULATION\_OF\_DENDRITE\_DEVELOPMENT  
HP\_ABNORMAL\_NASOLACRIMAL\_SYSTEM\_MORPHOLOGY, HP\_ABNORMAL\_NASOLACRIMAL\_SYSTEM\_MORPHOLOGY  
WP\_ASSOCIATION\_BETWEEN\_PHYSICOCHEMICAL\_FEATURES\_AND\_TOXICITY\_ASSOCIATED\_PATHWAYS, WP\_ASSOCIATION\_BETWEEN\_PHYSICOCHEMICAL\_FEATURES\_AND\_TOXICITY\_ASSOCIATED\_PATHWAYS  
MIR6755\_5P, MIR6755\_5P  
MIR6080, MIR6080  
REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_PLURIPOTENT\_STEM\_CELLS, REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_PLURIPOTENT\_STEM\_CELLS  
REACTOME\_GLUCAGON\_LIKE\_PEPTIDE\_1\_GLP1\_REGULATES\_INSULIN\_SECRETION, REACTOME\_GLUCAGON\_LIKE\_PEPTIDE\_1\_GLP1\_REGULATES\_INSULIN\_SECRETION  
TURASHVILI\_BREAST\_LOBULAR\_CARCINOMA\_VS\_DUCTAL\_NORMAL\_DN, TURASHVILI\_BREAST\_LOBULAR\_CARCINOMA\_VS\_DUCTAL\_NORMAL\_DN  
GOBP\_UNSATURATED\_FATTY\_ACID\_BIOSYNTHETIC\_PROCESS, GOBP\_UNSATURATED\_FATTY\_ACID\_BIOSYNTHETIC\_PROCESS  
YAUCH\_HEDGEHOG\_SIGNALING\_PARACRINE\_UP, YAUCH\_HEDGEHOG\_SIGNALING\_PARACRINE\_UP  
CDP\_02, CDP\_02  
PID\_S1P\_S1P2\_PATHWAY, PID\_S1P\_S1P2\_PATHWAY  
GOCC\_CILIARY\_BASE, GOCC\_CILIARY\_BASE  
GOCC\_NUCLEAR\_LAMINA, GOCC\_NUCLEAR\_LAMINA  
HP\_THIN\_NAIL, HP\_THIN\_NAIL  
GOBP\_INORGANIC\_ANION\_TRANSMEMBRANE\_TRANSPORT, GOBP\_INORGANIC\_ANION\_TRANSMEMBRANE\_TRANSPORT  
REACTOME\_BILE\_ACID\_AND\_BILE\_SALT\_METABOLISM, REACTOME\_BILE\_ACID\_AND\_BILE\_SALT\_METABOLISM  
REACTOME\_SEMA3A\_PAK\_DEPENDENT\_AXON\_REPULSION, REACTOME\_SEMA3A\_PAK\_DEPENDENT\_AXON\_REPULSION  
GOBP\_EPITHELIAL\_CELL\_FATE\_COMMITMENT, GOBP\_EPITHELIAL\_CELL\_FATE\_COMMITMENT  
HU\_FETAL\_RETINA\_AMACRINE, HU\_FETAL\_RETINA\_AMACRINE  
GOBP\_CELL\_FATE\_SPECIFICATION, GOBP\_CELL\_FATE\_SPECIFICATION  
REACTOME\_RHO\_GTPASES\_ACTIVATE\_CIT, REACTOME\_RHO\_GTPASES\_ACTIVATE\_CIT  
REACTOME\_PKA\_ACTIVATION\_IN\_GLUCAGON\_SIGNALLING, REACTOME\_PKA\_ACTIVATION\_IN\_GLUCAGON\_SIGNALLING  
MIR6751\_5P, MIR6751\_5P  
GOBP\_HEMATOPOIETIC\_STEM\_CELL\_PROLIFERATION, GOBP\_HEMATOPOIETIC\_STEM\_CELL\_PROLIFERATION  
REACTOME\_PKA\_MEDIATED\_PHOSPHORYLATION\_OF\_CREB, REACTOME\_PKA\_MEDIATED\_PHOSPHORYLATION\_OF\_CREB  
GOBP\_POSITIVE\_REGULATION\_OF\_FATTY\_ACID\_OXIDATION, GOBP\_POSITIVE\_REGULATION\_OF\_FATTY\_ACID\_OXIDATION  
MCCABE\_HOXC6\_TARGETS\_DN, MCCABE\_HOXC6\_TARGETS\_DN  
WP\_EICOSANOID\_METABOLISM\_VIA\_CYCLO\_OXYGENASES\_COX, WP\_EICOSANOID\_METABOLISM\_VIA\_CYCLO\_OXYGENASES\_COX  
REACTOME\_RHO\_GTPASES\_ACTIVATE\_PAKS, REACTOME\_RHO\_GTPASES\_ACTIVATE\_PAKS  
GOMF\_MAGNESIUM\_ION\_TRANSMEMBRANE\_TRANSPORTER\_ACTIVITY, GOMF\_MAGNESIUM\_ION\_TRANSMEMBRANE\_TRANSPORTER\_ACTIVITY  
GOBP\_MAGNESIUM\_ION\_TRANSPORT, GOBP\_MAGNESIUM\_ION\_TRANSPORT  
BIOCARTA\_STATHMIN\_PATHWAY, BIOCARTA\_STATHMIN\_PATHWAY  
GOMF\_CAMP\_BINDING, GOMF\_CAMP\_BINDING  
GOBP\_ACTIVATION\_OF\_PROTEIN\_KINASE\_A\_ACTIVITY, GOBP\_ACTIVATION\_OF\_PROTEIN\_KINASE\_A\_ACTIVITY  
GOMF\_CYCLIC\_NUCLEOTIDE\_BINDING, GOMF\_CYCLIC\_NUCLEOTIDE\_BINDING  
GOBP\_NEGATIVE\_REGULATION\_OF\_NEURON\_MIGRATION, GOBP\_NEGATIVE\_REGULATION\_OF\_NEURON\_MIGRATION  
SARTIPY\_BLUNTED\_BY\_INSULIN\_RESISTANCE\_DN, SARTIPY\_BLUNTED\_BY\_INSULIN\_RESISTANCE\_DN  
GOBP\_NEGATIVE\_REGULATION\_OF\_REACTIVE\_OXYGEN\_SPECIES\_BIOSYNTHETIC\_PROCESS, GOBP\_NEGATIVE\_REGULATION\_OF\_REACTIVE\_OXYGEN\_SPECIES\_BIOSYNTHETIC\_PROCESS  
LU\_TUMOR\_VASCULATURE\_DN, LU\_TUMOR\_VASCULATURE\_DN  
GOBP\_MYOTUBE\_CELL\_DEVELOPMENT, GOBP\_MYOTUBE\_CELL\_DEVELOPMENT  
HP\_ECLAMPSIA, HP\_ECLAMPSIA  
GOBP\_PANCREATIC\_A\_CELL\_DIFFERENTIATION, GOBP\_PANCREATIC\_A\_CELL\_DIFFERENTIATION  
GOBP\_LEFT\_RIGHT\_PATTERN\_FORMATION, GOBP\_LEFT\_RIGHT\_PATTERN\_FORMATION  
GOMF\_ALCOHOL\_DEHYDROGENASE\_NADPPLUS\_ACTIVITY, GOMF\_ALCOHOL\_DEHYDROGENASE\_NADPPLUS\_ACTIVITY  
REACTOME\_VISUAL\_PHOTOTRANSDUCTION, REACTOME\_VISUAL\_PHOTOTRANSDUCTION  
HP\_ENDOCARDIAL\_FIBROSIS, HP\_ENDOCARDIAL\_FIBROSIS  
GOBP\_CELLULAR\_RESPONSE\_TO\_GLUCAGON\_STIMULUS, GOBP\_CELLULAR\_RESPONSE\_TO\_GLUCAGON\_STIMULUS  
HP\_ALLERGY, HP\_ALLERGY  
GOBP\_POSITIVE\_REGULATION\_OF\_MEMORY\_T\_CELL\_DIFFERENTIATION, GOBP\_POSITIVE\_REGULATION\_OF\_MEMORY\_T\_CELL\_DIFFERENTIATION  
HP\_MATERNAL\_HYPERTENSION, HP\_MATERNAL\_HYPERTENSION  
GOBP\_POSITIVE\_REGULATION\_OF\_FATTY\_ACID\_BIOSYNTHETIC\_PROCESS, GOBP\_POSITIVE\_REGULATION\_OF\_FATTY\_ACID\_BIOSYNTHETIC\_PROCESS  
CUI\_DEVELOPING\_HEART\_CORONARY\_VASCULAR\_ENDOTHELIAL\_CELL, CUI\_DEVELOPING\_HEART\_CORONARY\_VASCULAR\_ENDOTHELIAL\_CELL  
HP\_ANURIA, HP\_ANURIA  
GOBP\_SOMITE\_SPECIFICATION, GOBP\_SOMITE\_SPECIFICATION  
GOBP\_LONG\_CHAIN\_FATTY\_ACID\_CATABOLIC\_PROCESS, GOBP\_LONG\_CHAIN\_FATTY\_ACID\_CATABOLIC\_PROCESS  
GOBP\_RETINOL\_METABOLIC\_PROCESS, GOBP\_RETINOL\_METABOLIC\_PROCESS  
HP\_THINNING\_OF\_DESCMET\_MEMBRANE, HP\_THINNING\_OF\_DESCMET\_MEMBRANE  
PARK\_OSTEOBLAST\_DIFFERENTIATION\_BY\_PHENYLAMIL\_DN, PARK\_OSTEOBLAST\_DIFFERENTIATION\_BY\_PHENYLAMIL\_DN  
HP\_DECREASED\_MEAN\_CORPUSCULAR\_HEMOGLOBIN\_CONCENTRATION, HP\_DECREASED\_MEAN\_CORPUSCULAR\_HEMOGLOBIN\_CONCENTRATION  
GOBP\_COMPLEMENT\_ACTIVATION\_ALTERNATIVE\_PATHWAY, GOBP\_COMPLEMENT\_ACTIVATION\_ALTERNATIVE\_PATHWAY  
BIOCARTA\_ALTERNATIVE\_PATHWAY, BIOCARTA\_ALTERNATIVE\_PATHWAY  
GOBP\_CELL\_MOTILITY\_INVOLVED\_IN\_CEREBRAL\_CORTEX\_RADIAL\_GLIA\_GUIDED\_MIGRATION, GOBP\_CELL\_MOTILITY\_INVOLVED\_IN\_CEREBRAL\_CORTEX\_RADIAL\_GLIA\_GUIDED\_MIGRATION  
GOBP\_REGULATION\_OF\_CAMP\_MEDIATED\_SIGNALING, GOBP\_REGULATION\_OF\_CAMP\_MEDIATED\_SIGNALING  
NAKAMURA\_ALVEOLAR\_EPITHELIUM, NAKAMURA\_ALVEOLAR\_EPITHELIUM  
GOCC\_INNER\_ACROSOMAL\_MEMBRANE, GOCC\_INNER\_ACROSOMAL\_MEMBRANE  
GOMF\_OXIDOREDUCTASE\_ACTIVITY\_ACTING\_ON\_PAIRED\_DONORS\_WITH\_INCORPORATION\_OR\_REDUCTION\_OF\_MOLECULAR\_OXYGEN\_REDUCED\_ASCORBATE\_AS\_ONE\_DONOR\_AND\_INCORPORATION\_OF\_ONE\_ATOM\_OF\_OXYGEN, GOMF\_OXIDOREDUCTASE\_ACTIVITY\_ACTING\_ON\_PAIRED\_DONORS\_WITH\_INCORPORATION\_OR\_REDUCTION\_OF\_MOLECULAR\_OXYGEN\_REDUCED\_ASCORBATE\_AS\_ONE\_DONOR  
TESAR\_ALK\_TARGETS\_HUMAN\_ES\_5D\_UP, TESAR\_ALK\_TARGETS\_HUMAN\_ES\_5D\_UP  
REACTOME\_IRS\_ACTIVATION, REACTOME\_IRS\_ACTIVATION  
BIOCARTA\_COMP\_PATHWAY, BIOCARTA\_COMP\_PATHWAY  
WP\_COMPLEMENT\_ACTIVATION, WP\_COMPLEMENT\_ACTIVATION