

IL2RALOW\_DAY3\_EFF\_CD8\_TCELL\_DN, GSE19825\_NAIVE\_VS\_IL2RALOW\_DAY3\_EFF\_CD8\_TCELL\_DN

GSE19825\_NAIVE\_VS\_IL2RAHIGH\_DAY3\_EFF\_CD8\_TCELL\_DN, GSE19825\_NAIVE\_VS\_IL2RAHIGH\_DAY3\_EFF\_CD8\_TCELL\_DN  
GSE19825\_NAIVE\_VS\_DAY3\_EFF\_CD8\_TCELL\_DN, GSE19825\_NAIVE\_VS\_DAY3\_EFF\_CD8\_TCELL\_DN  
GSE19825\_CD24LOW\_VS\_IL2RA\_HIGH\_DAY3\_EFF\_CD8\_TCELL\_UP, GSE19825\_CD24LOW\_VS\_IL2RA\_HIGH\_DAY3\_EFF\_CD8\_TCELL\_UP  
GOCC\_LATE\_ENDOSOME\_MEMBRANE, GOCC\_LATE\_ENDOSOME\_MEMBRANE  
GSE7831\_UNSTIM\_VS\_INFLUENZA\_STIM\_PDC\_1H\_UP, GSE7831\_UNSTIM\_VS\_INFLUENZA\_STIM\_PDC\_1H\_UP  
GSE32986\_GMCSF\_VS\_GMCSF\_AND\_CURDLAN\_HIGHDOSE\_STIM\_DC\_DN, GSE32986\_GMCSF\_VS\_GMCSF\_AND\_CURDLAN\_HIGHDOSE\_STIM\_DC\_DN  
GSE34006\_UNTREATED\_VS\_A2AR\_AGONIST\_TREATED\_TREG\_DN, GSE34006\_UNTREATED\_VS\_A2AR\_AGONIST\_TREATED\_TREG\_DN  
HP\_UNSTEADY\_GAIT, HP\_UNSTEADY\_GAIT  
GSE29949\_MICROGLIA\_VS\_DC\_BRAIN\_UP, GSE29949\_MICROGLIA\_VS\_DC\_BRAIN\_UP  
GSE10239\_NAIVE\_VS\_MEMORY\_CD8\_TCELL\_DN, GSE10239\_NAIVE\_VS\_MEMORY\_CD8\_TCELL\_DN  
GSE23114\_WT\_VS\_SLE2C1\_MOUSE\_PERITONEAL\_CAVITY\_B1A\_BCELL\_UP, GSE23114\_WT\_VS\_SLE2C1\_MOUSE\_PERITONEAL\_CAVITY\_B1A\_BCELL\_UP  
GSE22342\_CD11C\_HIGH\_VS\_LOW\_DECIDUAL\_MACROPHAGES\_UP, GSE22342\_CD11C\_HIGH\_VS\_LOW\_DECIDUAL\_MACROPHAGES\_UP  
GOMF\_DIOXYGENASE\_ACTIVITY, GOMF\_DIOXYGENASE\_ACTIVITY  
MODULE\_350, MODULE\_350  
WP\_CHROMOSOMAL\_AND\_MICROSATELLITE\_INSTABILITY\_IN\_COLORECTAL\_CANCER, WP\_CHROMOSOMAL\_AND\_MICROSATELLITE\_INSTABILITY\_IN\_COLORECTAL\_CANCER  
GOBP\_PROTEIN\_DEMETHYLATION, GOBP\_PROTEIN\_DEMETHYLATION  
GOBP\_RRNA\_TRANSCRIPTION, GOBP\_RRNA\_TRANSCRIPTION  
REACTOME\_REGULATED\_NECROSIS, REACTOME\_REGULATED\_NECROSIS  
GSE17721\_PAM3CSK4\_VS\_GADIQUIMOD\_1H\_BMDC\_UP, GSE17721\_PAM3CSK4\_VS\_GADIQUIMOD\_1H\_BMDC\_UP  
GSE17721\_CTRL\_VS\_CPG\_0.5H\_BMDC\_DN, GSE17721\_CTRL\_VS\_CPG\_0.5H\_BMDC\_DN  
MIR6765\_3P, MIR6765\_3P  
HP\_HYPOPLASIA\_OF\_TEETH, HP\_HYPOPLASIA\_OF\_TEETH  
GOMF\_METALLOPEPTIDASE\_ACTIVITY, GOMF\_METALLOPEPTIDASE\_ACTIVITY  
MIR4686, MIR4686  
WP\_STEROL\_REGULATORY\_ELEMENTBINDING\_PROTEINS\_SREBP\_SIGNALLING, WP\_STEROL\_REGULATORY\_ELEMENTBINDING\_PROTEINS\_SREBP\_SIGNALLING  
GSE41176\_UNSTIM\_VS\_ANTI\_IGM\_STIM\_TAK1\_KO\_BCELL\_3H\_UP, GSE41176\_UNSTIM\_VS\_ANTI\_IGM\_STIM\_TAK1\_KO\_BCELL\_3H\_UP  
GSE22025\_UNTREATED\_VS\_PROGESTERONE\_TREATED\_CD4\_TCELL\_UP, GSE22025\_UNTREATED\_VS\_PROGESTERONE\_TREATED\_CD4\_TCELL\_UP  
HP\_SUPRANUCLEAR\_GAZE\_PALSY, HP\_SUPRANUCLEAR\_GAZE\_PALSY  
GOBP\_POSITIVE\_REGULATION\_OF\_DNA\_RECOMBINATION, GOBP\_POSITIVE\_REGULATION\_OF\_DNA\_RECOMBINATION  
HOOL\_S17\_TARGETS\_UP, HOOL\_S17\_TARGETS\_UP  
HP\_WADDLING\_GAIT, HP\_WADDLING\_GAIT  
GOBP\_POSITIVE\_REGULATION\_OF\_DOUBLE\_STRAND\_BREAK\_REPAIR, GOBP\_POSITIVE\_REGULATION\_OF\_DOUBLE\_STRAND\_BREAK\_REPAIR  
GSE37416\_CTRL\_VS\_0H\_F\_TULARENSIS\_LVS\_NEUTROPHIL\_UP, GSE37416\_CTRL\_VS\_0H\_F\_TULARENSIS\_LVS\_NEUTROPHIL\_UP  
HP\_SHORT\_CHIN, HP\_SHORT\_CHIN  
RUVBL2\_TARGET\_GENES, RUVBL2\_TARGET\_GENES  
GOBP\_REGULATION\_OF\_CARBOHYDRATE\_BIOSYNTHETIC\_PROCESS, GOBP\_REGULATION\_OF\_CARBOHYDRATE\_BIOSYNTHETIC\_PROCESS  
MIR505\_5P, MIR505\_5P  
GARGALOVIC\_RESPONSE\_TO\_OXIDIZED\_PHOSPHOLIPIDS\_YELLOW\_DN, GARGALOVIC\_RESPONSE\_TO\_OXIDIZED\_PHOSPHOLIPIDS\_YELLOW\_DN  
BARRIER\_CANCER\_RELAPSE\_NORMAL\_SAMPLE\_DN, BARRIER\_CANCER\_RELAPSE\_NORMAL\_SAMPLE\_DN  
GOBP\_GOLGI\_TO\_VACUOLE\_TRANSPORT, GOBP\_GOLGI\_TO\_VACUOLE\_TRANSPORT  
GOBP\_PRODUCTION\_OF\_SMALL\_RNA\_INVOLVED\_IN\_GENE\_SILENCING\_BY\_RNA, GOBP\_PRODUCTION\_OF\_SMALL\_RNA\_INVOLVED\_IN\_GENE\_SILENCING\_BY\_RNA  
HP\_PANNICULITIS, HP\_PANNICULITIS  
MIR7705, MIR7705  
GOBP\_LATE\_ENDOSOME\_TO\_VACUOLE\_TRANSPORT\_VIA\_MULTIVESICULAR\_BODY\_SORTING\_PATHWAY, GOBP\_LATE\_ENDOSOME\_TO\_VACUOLE\_TRANSPORT\_VIA\_MULTIVESICULAR\_BODY\_SORTING\_PATHWAY  
GSE17974\_IL4\_AND\_ANTI\_IL12\_VS\_UNTREATED\_1H\_ACT\_CD4\_TCELL\_DN, GSE17974\_IL4\_AND\_ANTI\_IL12\_VS\_UNTREATED\_1H\_ACT\_CD4\_TCELL\_DN  
REACTOME\_METAL\_ION\_SLC\_TRANSPORTERS, REACTOME\_METAL\_ION\_SLC\_TRANSPORTERS  
HP\_BROAD\_ALVEOLAR\_RIDGES, HP\_BROAD\_ALVEOLAR\_RIDGES  
GOBP\_INORGANIC\_ION\_IMPORT\_ACROSS\_PLASMA\_MEMBRANE, GOBP\_INORGANIC\_ION\_IMPORT\_ACROSS\_PLASMA\_MEMBRANE  
MIR3682\_3P, MIR3682\_3P  
GOBP\_POSITIVE\_REGULATION\_OF\_B\_CELL\_MEDIATED\_IMMUNITY, GOBP\_POSITIVE\_REGULATION\_OF\_B\_CELL\_MEDIATED\_IMMUNITY  
HP\_INCREASED\_CIRCULATING\_IGG\_LEVEL, HP\_INCREASED\_CIRCULATING\_IGG\_LEVEL  
PID\_RXR\_VDR\_PATHWAY, PID\_RXR\_VDR\_PATHWAY  
HP\_ABNORMALITY\_OF\_THE\_ALVEOLAR\_RIDGES, HP\_ABNORMALITY\_OF\_THE\_ALVEOLAR\_RIDGES  
HP\_PORENCEPHALIC\_CYST, HP\_PORENCEPHALIC\_CYST  
HP\_HYPERVENTILATION, HP\_HYPERVENTILATION  
HOSHIDA\_LIVER\_CANCER\_LATE\_RECURRENCE\_DN, HOSHIDA\_LIVER\_CANCER\_LATE\_RECURRENCE\_DN  
HP\_SLURRED\_SPEECH, HP\_SLURRED\_SPEECH  
WP\_GENES\_INVOLVED\_IN\_MALE\_INFERTILITY, WP\_GENES\_INVOLVED\_IN\_MALE\_INFERTILITY  
GOBP\_MDA\_5\_SIGNALING\_PATHWAY, GOBP\_MDA\_5\_SIGNALING\_PATHWAY  
GOBP\_NEURON\_MIGRATION, GOBP\_NEURON\_MIGRATION  
ZNF426\_TARGET\_GENES, ZNF426\_TARGET\_GENES  
GHANDHI\_BYSTANDER\_IRRADIATION\_UP, GHANDHI\_BYSTANDER\_IRRADIATION\_UP  
WP\_ZINC\_HOMEOSTASIS, WP\_ZINC\_HOMEOSTASIS  
GOBP\_REGULATION\_OF\_B\_CELL\_MEDIATED\_IMMUNITY, GOBP\_REGULATION\_OF\_B\_CELL\_MEDIATED\_IMMUNITY  
GOBP\_ZINC\_ION\_TRANSPORT, GOBP\_ZINC\_ION\_TRANSPORT  
GOBP\_PHOSPHATIDYLCHOLINE\_ACYL\_CHAIN\_REMODELING, GOBP\_PHOSPHATIDYLCHOLINE\_ACYL\_CHAIN\_REMODELING  
REACTOME\_TRANSPORT\_OF\_BILE\_SALTS\_AND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COMPOUNDS, REACTOME\_TRANSPORT\_OF\_BILE\_SALTS\_AND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COMPOUNDS  
GOBP\_PLATELET\_MORPHOGENESIS, GOBP\_PLATELET\_MORPHOGENESIS  
ZNF548\_TARGET\_GENES, ZNF548\_TARGET\_GENES  
REACTOME\_SYNDECAN\_INTERACTIONS, REACTOME\_SYNDECAN\_INTERACTIONS  
GOBP\_PROGRAMMED\_CELL\_DEATH\_INVOLVED\_IN\_CELL\_DEVELOPMENT, GOBP\_PROGRAMMED\_CELL\_DEATH\_INVOLVED\_IN\_CELL\_DEVELOPMENT  
ANDERSON\_BLOOD\_CN54GP140\_ADJUVANTED\_WITH\_GLA\_AF\_AGE\_18\_45YO\_3DY\_UP, ANDERSON\_BLOOD\_CN54GP140\_ADJUVANTED\_WITH\_GLA\_AF\_AGE\_18\_45YO\_3DY\_UP  
GOMF\_ZINC\_ION\_TRANSMEMBRANE\_TRANSPORTER\_ACTIVITY, GOMF\_ZINC\_ION\_TRANSMEMBRANE\_TRANSPORTER\_ACTIVITY  
GOBP\_NEGATIVE\_REGULATION\_OF\_CALCINEURIN\_MEDIATED\_SIGNALING, GOBP\_NEGATIVE\_REGULATION\_OF\_CALCINEURIN\_MEDIATED\_SIGNALING  
GOBP\_POSITIVE\_REGULATION\_OF\_DOUBLE\_STRAND\_BREAK\_REPAIR\_VIA\_NONHOMOLOGOUS\_END\_JOINING, GOBP\_POSITIVE\_REGULATION\_OF\_DOUBLE\_STRAND\_BREAK\_REPAIR\_VIA\_NONHOMOLOGOUS\_END\_JOINING  
HP\_POLYGENIC\_INHERITANCE, HP\_POLYGENIC\_INHERITANCE  
GOBP\_NEGATIVE\_REGULATION\_OF\_ACTIVATED\_T\_CELL\_PROLIFERATION, GOBP\_NEGATIVE\_REGULATION\_OF\_ACTIVATED\_T\_CELL\_PROLIFERATION  
GOBP\_REGULATION\_OF\_VASCULAR\_PERMEABILITY, GOBP\_REGULATION\_OF\_VASCULAR\_PERMEABILITY  
GOMF\_LYSOPHOSPHATIDIC\_ACID\_ACYLTRANSFERASE\_ACTIVITY, GOMF\_LYSOPHOSPHATIDIC\_ACID\_ACYLTRANSFERASE\_ACTIVITY  
ERWIN\_COHEN\_PBMCTC\_83\_AGE\_18\_45YO\_NAIVE\_NOT\_PREVIOUSLY\_IMMUNIZED\_24HR\_DEG\_CANONICAL\_PATHWAY\_MEMBERS\_UP, ERWIN\_COHEN\_PBMCTC\_83\_AGE\_18\_45YO\_NAIVE\_NOT\_PREVIOUSLY\_IMMUNIZED\_24HR\_DEG\_C  
HP\_EXTRAPYRAMIDAL\_MUSCULAR\_RIGIDITY, HP\_EXTRAPYRAMIDAL\_MUSCULAR\_RIGIDITY  
HP\_ACROCYANOSIS, HP\_ACROCYANOSIS  
HP\_INCREASED\_DENSITY\_OF\_LONG\_BONES, HP\_INCREASED\_DENSITY\_OF\_LONG\_BONES  
GOBP\_POSITIVE\_REGULATION\_OF\_VASCULAR\_PERMEABILITY, GOBP\_POSITIVE\_REGULATION\_OF\_VASCULAR\_PERMEABILITY  
GOBP\_REGULATION\_OF\_B\_CELL\_APOPTOTIC\_PROCESS, GOBP\_REGULATION\_OF\_B\_CELL\_APOPTOTIC\_PROCESS  
GOBP\_INTERLEUKIN\_17\_PRODUCTION, GOBP\_INTERLEUKIN\_17\_PRODUCTION  
REACTOME\_ZINC\_TRANSPORTERS, REACTOME\_ZINC\_TRANSPORTERS  
HP\_DIAPHYSEAL\_SCLEROSIS, HP\_DIAPHYSEAL\_SCLEROSIS  
KEGG\_SULFUR\_METABOLISM, KEGG\_SULFUR\_METABOLISM  
GOMF\_LYSOPHOSPHOLIPID\_ACYLTRANSFERASE\_ACTIVITY, GOMF\_LYSOPHOSPHOLIPID\_ACYLTRANSFERASE\_ACTIVITY  
GOBP\_NEGATIVE\_REGULATION\_OF\_CELLULAR\_SENESCENCE, GOBP\_NEGATIVE\_REGULATION\_OF\_CELLULAR\_SENESCENCE  
HP\_MALE\_HYPOGONADISM, HP\_MALE\_HYPOGONADISM  
GOBP\_G\_PROTEIN\_COUPLED\_PURINERGIC\_RECEPTOR\_SIGNALING\_PATHWAY, GOBP\_G\_PROTEIN\_COUPLED\_PURINERGIC\_RECEPTOR\_SIGNALING\_PATHWAY  
HP\_LIMB\_PAIN, HP\_LIMB\_PAIN  
NIKOLSKY\_BREAST\_CANCER\_14Q22\_AMPLICON, NIKOLSKY\_BREAST\_CANCER\_14Q22\_AMPLICON  
GOBP\_MITOTIC\_CELL\_CYCLE\_ARREST, GOBP\_MITOTIC\_CELL\_CYCLE\_ARREST  
WENG\_POR\_TARGETS\_GLOBAL\_UP, WENG\_POR\_TARGETS\_GLOBAL\_UP  
HP\_CONGENITAL\_LOCALIZED\_ABSENCE\_OF\_SKIN, HP\_CONGENITAL\_LOCALIZED\_ABSENCE\_OF\_SKIN  
GOBP\_EXTRACELLULAR\_MATRIX\_ASSEMBLY, GOBP\_EXTRACELLULAR\_MATRIX\_ASSEMBLY  
BARRIER\_CANCER\_RELAPSE\_NORMAL\_SAMPLE\_UP, BARRIER\_CANCER\_RELAPSE\_NORMAL\_SAMPLE\_UP  
GOBP\_NEGATIVE\_REGULATION\_OF\_CELL\_AGING, GOBP\_NEGATIVE\_REGULATION\_OF\_CELL\_AGING  
ZNF491\_TARGET\_GENES, ZNF491\_TARGET\_GENES  
HP\_APLASIA\_HYPOPLASIA\_OF\_THE\_EYELID, HP\_APLASIA\_HYPOPLASIA\_OF\_THE\_EYELID  
GOBP\_ZINC\_ION\_HOMEOSTASIS, GOBP\_ZINC\_ION\_HOMEOSTASIS  
GOMF\_SULFOTRANSFERASE\_ACTIVITY, GOMF\_SULFOTRANSFERASE\_ACTIVITY  
GOBP\_BLOOD\_VESSEL\_REMODELING, GOBP\_BLOOD\_VESSEL\_REMODELING  
HP\_URINARY\_RETENTION, HP\_URINARY\_RETENTION  
DELASERNA\_TARGETS\_OF\_MYOD\_AND\_SMARCA4, DELASERNA\_TARGETS\_OF\_MYOD\_AND\_SMARCA4  
WP\_SREBF\_AND\_MIR33\_IN\_CHOLESTEROL\_AND\_LIPID\_HOMEOSTASIS, WP\_SREBF\_AND\_MIR33\_IN\_CHOLESTEROL\_AND\_LIPID\_HOMEOSTASIS  
HP\_MILIA, HP\_MILIA  
WUNDER\_INFLAMMATORY\_RESPONSE\_AND\_CHOLESTEROL\_DN, WUNDER\_INFLAMMATORY\_RESPONSE\_AND\_CHOLESTEROL\_DN  
GOBP\_SPERMINE\_METABOLIC\_PROCESS, GOBP\_SPERMINE\_METABOLIC\_PROCESS  
HP\_MITTEN\_DEFORMITY, HP\_MITTEN\_DEFORMITY  
GOBP\_NEGATIVE\_REGULATION\_OF\_ADENYLATE\_CYCLASE\_ACTIVATING\_G\_PROTEIN\_COUPLED\_RECEPTOR\_SIGNALING\_PATHWAY, GOBP\_NEGATIVE\_REGULATION\_OF\_ADENYLATE\_CYCLASE\_ACTIVATING\_G\_PROTEIN\_COUPLED\_RE  
HP\_LOW\_SELF\_ESTEEM, HP\_LOW\_SELF\_ESTEEM  
HP\_LOWER\_LIMB\_PAIN, HP\_LOWER\_LIMB\_PAIN  
REACTOME\_ADENYLATE\_CYCLASE\_INHIBITORY\_PATHWAY, REACTOME\_ADENYLATE\_CYCLASE\_INHIBITORY\_PATHWAY  
GOMF\_ANION\_CATION\_SYMPORTER\_ACTIVITY, GOMF\_ANION\_CATION\_SYMPORTER\_ACTIVITY  
HP\_ABNORMALITY\_OF\_RADIAL\_EPIPHYSES, HP\_ABNORMALITY\_OF\_RADIAL\_EPIPHYSES  
MIR122\_3P, MIR122\_3P  
REACTOME\_ERYTHROCYTES\_TAKE\_UPCARBONDIOXIDE\_ANDRELEASEOXYGEN, REACTOME\_ERYTHROCYTES\_TAKE\_UPCARBONDIOXIDE\_ANDRELEASEOXYGEN