

GSE15330\_LYMPHOID\_MULTIPOTENT\_VS\_GRANULOCYTE\_MONOCYTE\_PROGENITOR\_DN, GSE15330\_LYMPHOID\_MULTIPOTENT\_VS\_GRANULOCYTE\_MONOCYTE\_PROGENITOR\_DN  
GSE14769\_UNSTIM\_VS\_240MIN\_LPS\_BMDM\_DN, GSE14769\_UNSTIM\_VS\_240MIN\_LPS\_BMDM\_DN  
GSE19198\_CTRL\_VS\_IL21\_TREATED\_TCELL\_6H\_UP, GSE19198\_CTRL\_VS\_IL21\_TREATED\_TCELL\_6H\_UP  
GSE22935\_WT\_VS\_MYD88\_KO\_MACROPHAGE\_24H\_MBOVIS\_BCG\_STIM\_DN, GSE22935\_WT\_VS\_MYD88\_KO\_MACROPHAGE\_24H\_MBOVIS\_BCG\_STIM\_DN  
GSE17721\_LPS\_VS\_PAM3CSK4\_8H\_BMDC\_UP, GSE17721\_LPS\_VS\_PAM3CSK4\_8H\_BMDC\_UP  
GSE6092\_IFNG\_VS\_IFNG\_AND\_B\_BURGDORFERI\_INF\_ENDOTHELIAL\_CELL\_DN, GSE6092\_IFNG\_VS\_IFNG\_AND\_B\_BURGDORFERI\_INF\_ENDOTHELIAL\_CELL\_DN  
GSE17721\_PAM3CSK4\_VS\_CPG\_8H\_BMDC\_DN, GSE17721\_PAM3CSK4\_VS\_CPG\_8H\_BMDC\_DN  
GSE24142\_ADULT\_VS\_FETAL\_DN3\_THYMOCYTE\_UP, GSE24142\_ADULT\_VS\_FETAL\_DN3\_THYMOCYTE\_UP  
GSE360\_LOW\_DOSE\_B\_MALAYI\_VS\_M\_TUBERCULOSIS\_DC\_DN, GSE360\_LOW\_DOSE\_B\_MALAYI\_VS\_M\_TUBERCULOSIS\_DC\_DN  
GSE17721\_POLYIC\_VS\_CPG\_8H\_BMDC\_UP, GSE17721\_POLYIC\_VS\_CPG\_8H\_BMDC\_UP  
GSE17721\_LPS\_VS\_POLYIC\_6H\_BMDC\_UP, GSE17721\_LPS\_VS\_POLYIC\_6H\_BMDC\_UP  
GSE14769\_UNSTIM\_VS\_120MIN\_LPS\_BMDM\_DN, GSE14769\_UNSTIM\_VS\_120MIN\_LPS\_BMDM\_DN  
GSE17721\_0.5H\_VS\_24H\_CPG\_BMDC\_DN, GSE17721\_0.5H\_VS\_24H\_CPG\_BMDC\_DN  
GSE36527\_CD62L\_HIGH\_VS\_CD62L\_LOW\_TREG\_CD69\_NEG\_KLRG1\_NEG\_UP, GSE36527\_CD62L\_HIGH\_VS\_CD62L\_LOW\_TREG\_CD69\_NEG\_KLRG1\_NEG\_UP  
GSE22935\_24H\_VS\_48H\_MBOVIS\_BCG\_STIM\_MYD88\_KO\_MACROPHAGE\_UP, GSE22935\_24H\_VS\_48H\_MBOVIS\_BCG\_STIM\_MYD88\_KO\_MACROPHAGE\_UP  
GSE17721\_PAM3CSK4\_VS\_GADIQUIMOD\_24H\_BMDC\_DN, GSE17721\_PAM3CSK4\_VS\_GADIQUIMOD\_24H\_BMDC\_DN  
GSE17721\_LPS\_VS\_GADIQUIMOD\_4H\_BMDC\_UP, GSE17721\_LPS\_VS\_GADIQUIMOD\_4H\_BMDC\_UP  
GSE17721\_CPG\_VS\_GADIQUIMOD\_6H\_BMDC\_UP, GSE17721\_CPG\_VS\_GADIQUIMOD\_6H\_BMDC\_UP  
GSE17721\_PAM3CSK4\_VS\_GADIQUIMOD\_8H\_BMDC\_DN, GSE17721\_PAM3CSK4\_VS\_GADIQUIMOD\_8H\_BMDC\_DN  
GSE17721\_LPS\_VS\_PAM3CSK4\_12H\_BMDC\_UP, GSE17721\_LPS\_VS\_PAM3CSK4\_12H\_BMDC\_UP  
GSE36527\_CD69\_NEG\_VS\_POS\_TREG\_CD62L\_LOS\_KLRG1\_NEG\_UP, GSE36527\_CD69\_NEG\_VS\_POS\_TREG\_CD62L\_LOS\_KLRG1\_NEG\_UP  
GSE17721\_PAM3CSK4\_VS\_CPG\_4H\_BMDC\_DN, GSE17721\_PAM3CSK4\_VS\_CPG\_4H\_BMDC\_DN  
GSE17721\_PAM3CSK4\_VS\_CPG\_2H\_BMDC\_DN, GSE17721\_PAM3CSK4\_VS\_CPG\_2H\_BMDC\_DN  
GSE7348\_UNSTIM\_VS\_TOLERIZED\_AND\_LPS\_STIM\_MACROPHAGE\_DN, GSE7348\_UNSTIM\_VS\_TOLERIZED\_AND\_LPS\_STIM\_MACROPHAGE\_DN  
GSE17721\_PAM3CSK4\_VS\_GADIQUIMOD\_4H\_BMDC\_DN, GSE17721\_PAM3CSK4\_VS\_GADIQUIMOD\_4H\_BMDC\_DN  
GSE17721\_CTRL\_VS\_PAM3CSK4\_8H\_BMDC\_DN, GSE17721\_CTRL\_VS\_PAM3CSK4\_8H\_BMDC\_DN  
GSE27859\_MACROPHAGE\_VS\_DC\_UP, GSE27859\_MACROPHAGE\_VS\_DC\_UP  
GSE43955\_TH0\_VS\_TGFB\_IL6\_THI7\_ACT\_CD4\_TCELL\_4H\_DN, GSE43955\_TH0\_VS\_TGFB\_IL6\_THI7\_ACT\_CD4\_TCELL\_4H\_DN  
GSE17721\_LPS\_VS\_CPG\_4H\_BMDC\_UP, GSE17721\_LPS\_VS\_CPG\_4H\_BMDC\_UP  
GSE5589\_LPS\_VS\_LPS\_AND\_IL10\_STIM\_MACROPHAGE\_180MIN\_UP, GSE5589\_LPS\_VS\_LPS\_AND\_IL10\_STIM\_MACROPHAGE\_180MIN\_UP  
REACTOME\_RHOA\_GTPASE\_CYCLE, REACTOME\_RHOA\_GTPASE\_CYCLE  
ZHU\_CMV\_ALL\_UP, ZHU\_CMV\_ALL\_UP  
GSE19888\_CTRL\_VS\_TCELL\_MEMBRANES\_ACT\_MAST\_CELL\_PRETREAT\_A3R\_INH\_DN, GSE19888\_CTRL\_VS\_TCELL\_MEMBRANES\_ACT\_MAST\_CELL\_PRETREAT\_A3R\_INH\_DN  
GSE17721\_LPS\_VS\_CPG\_6H\_BMDC\_UP, GSE17721\_LPS\_VS\_CPG\_6H\_BMDC\_UP  
GSE17721\_POLYIC\_VS\_GADIQUIMOD\_8H\_BMDC\_UP, GSE17721\_POLYIC\_VS\_GADIQUIMOD\_8H\_BMDC\_UP  
GSE17721\_LPS\_VS\_GADIQUIMOD\_16H\_BMDC\_UP, GSE17721\_LPS\_VS\_GADIQUIMOD\_16H\_BMDC\_UP  
GSE46242\_CTRL\_VS\_EGR2\_DELETED\_ANERGIC\_TH1\_CD4\_TCELL\_DN, GSE46242\_CTRL\_VS\_EGR2\_DELETED\_ANERGIC\_TH1\_CD4\_TCELL\_DN  
GSE21360\_NAIVE\_VS\_PRIMARY\_MEMORY\_CD8\_TCELL\_DN, GSE21360\_NAIVE\_VS\_PRIMARY\_MEMORY\_CD8\_TCELL\_DN  
GSE17721\_CPG\_VS\_GADIQUIMOD\_8H\_BMDC\_UP, GSE17721\_CPG\_VS\_GADIQUIMOD\_8H\_BMDC\_UP  
GSE17721\_POLYIC\_VS\_CPG\_12H\_BMDC\_UP, GSE17721\_POLYIC\_VS\_CPG\_12H\_BMDC\_UP  
GSE17721\_POLYIC\_VS\_CPG\_2H\_BMDC\_DN, GSE17721\_POLYIC\_VS\_CPG\_2H\_BMDC\_DN  
GSE7348\_UNSTIM\_VS\_LPS\_STIM\_MACROPHAGE\_DN, GSE7348\_UNSTIM\_VS\_LPS\_STIM\_MACROPHAGE\_DN  
GSE17721\_LPS\_VS\_POLYIC\_2H\_BMDC\_UP, GSE17721\_LPS\_VS\_POLYIC\_2H\_BMDC\_UP  
GSE17721\_CTRL\_VS\_POLYIC\_8H\_BMDC\_DN, GSE17721\_CTRL\_VS\_POLYIC\_8H\_BMDC\_DN  
GSE17721\_CTRL\_VS\_GADIQUIMOD\_1H\_BMDC\_DN, GSE17721\_CTRL\_VS\_GADIQUIMOD\_1H\_BMDC\_DN  
GSE17721\_CPG\_VS\_GADIQUIMOD\_1H\_BMDC\_UP, GSE17721\_CPG\_VS\_GADIQUIMOD\_1H\_BMDC\_UP  
GSE22935\_UNSTIM\_VS\_24H\_MBOVIS\_BCG\_STIM\_MACROPHAGE\_DN, GSE22935\_UNSTIM\_VS\_24H\_MBOVIS\_BCG\_STIM\_MACROPHAGE\_DN  
GSE17721\_LPS\_VS\_PAM3CSK4\_4H\_BMDC\_UP, GSE17721\_LPS\_VS\_PAM3CSK4\_4H\_BMDC\_UP  
GSE17721\_CTRL\_VS\_LPS\_6H\_BMDC\_DN, GSE17721\_CTRL\_VS\_LPS\_6H\_BMDC\_DN  
GSE17721\_0.5H\_VS\_4H\_LPS\_BMDC\_DN, GSE17721\_0.5H\_VS\_4H\_LPS\_BMDC\_DN  
GSE10211\_UV\_INACT\_SENDAI\_VS\_LIVE\_SENDAI\_VIRUS\_TRACHEAL\_EPITHELIAL\_CELLS\_DN, GSE10211\_UV\_INACT\_SENDAI\_VS\_LIVE\_SENDAI\_VIRUS\_TRACHEAL\_EPITHELIAL\_CELLS\_DN  
MIR2278, MIR2278  
REACTOME\_TOLL\_LIKE\_RECEPTOR\_TLR1\_TLR2\_CASCADE, REACTOME\_TOLL\_LIKE\_RECEPTOR\_TLR1\_TLR2\_CASCADE  
NIKOLSKY\_BREAST\_CANCER\_8Q12\_Q22\_AMPLICON, NIKOLSKY\_BREAST\_CANCER\_8Q12\_Q22\_AMPLICON  
HP\_JUVENILE\_ONSET, HP\_JUVENILE\_ONSET  
MIR33A\_5P, MIR33B\_5P, MIR33A\_5P, MIR33B\_5P  
GSE24972\_MARGINAL\_ZONE\_BCELL\_VS\_FOLLICULAR\_BCELL\_IRF8\_KO\_DN, GSE24972\_MARGINAL\_ZONE\_BCELL\_VS\_FOLLICULAR\_BCELL\_IRF8\_KO\_DN  
GSE17721\_POLYIC\_VS\_PAM3CSK4\_2H\_BMDC\_DN, GSE17721\_POLYIC\_VS\_PAM3CSK4\_2H\_BMDC\_DN  
HP\_GASTROINTESTINAL\_INFLAMMATION, HP\_GASTROINTESTINAL\_INFLAMMATION  
GOBP\_VESICLE\_DOCKING, GOBP\_VESICLE\_DOCKING  
MIR383\_5P, MIR383\_5P  
AMIT\_EGF\_RESPONSE\_120\_HELA, AMIT\_EGF\_RESPONSE\_120\_HELA  
HOWARD\_T\_CELL\_INACT\_MONOV\_INFLUENZA\_A\_INDONESIA\_05\_2005\_H5N1\_AGE\_18\_49YO\_IDY\_UP, HOWARD\_T\_CELL\_INACT\_MONOV\_INFLUENZA\_A\_INDONESIA\_05\_2005\_H5N1\_AGE\_18\_49YO\_IDY\_UP  
MOLENAAR\_TARGETS\_OF\_CCND1\_AND\_CDK4\_UP, MOLENAAR\_TARGETS\_OF\_CCND1\_AND\_CDK4\_UP  
GSE22589\_SIV\_VS\_HIV\_AND\_SIV\_INFECTED\_DC\_UP, GSE22589\_SIV\_VS\_HIV\_AND\_SIV\_INFECTED\_DC\_UP  
REACTOME\_REGULATED\_NECROSIS, REACTOME\_REGULATED\_NECROSIS  
GOBP\_INTERFERON\_BETA\_PRODUCTION, GOBP\_INTERFERON\_BETA\_PRODUCTION  
BOYLAN\_MULTIPLE\_MYELOMA\_C\_DN, BOYLAN\_MULTIPLE\_MYELOMA\_C\_DN  
RADMACHER\_AML\_PROGNOSIS, RADMACHER\_AML\_PROGNOSIS  
GOBP\_RHO\_PROTEIN\_SIGNAL\_TRANSDUCTION, GOBP\_RHO\_PROTEIN\_SIGNAL\_TRANSDUCTION  
WP\_VIRAL\_ACUTE\_MYOCARDITIS, WP\_VIRAL\_ACUTE\_MYOCARDITIS  
HP\_ABNORMALITY\_ON\_PULMONARY\_FUNCTION\_TESTING, HP\_ABNORMALITY\_ON\_PULMONARY\_FUNCTION\_TESTING  
TTGCWCAAY\_CEBPB\_02, TTGCWCAAY\_CEBPB\_02  
HP\_FOCAL\_EMOTIONAL\_SEIZURE, HP\_FOCAL\_EMOTIONAL\_SEIZURE  
GOBP\_GLYCOSPHINGOLIPID\_METABOLIC\_PROCESS, GOBP\_GLYCOSPHINGOLIPID\_METABOLIC\_PROCESS  
MIR1270, MIR1270  
MIR4703\_3P, MIR4703\_3P  
GSE29949\_MICROGLIA\_VS\_DC\_BRAIN\_DN, GSE29949\_MICROGLIA\_VS\_DC\_BRAIN\_DN  
GAURNIER\_PSMd4\_TARGETS, GAURNIER\_PSMd4\_TARGETS  
MIR620, MIR620  
WAMUNYOKOLI\_OVARIAN\_CANCER\_GRADES\_1\_2\_DN, WAMUNYOKOLI\_OVARIAN\_CANCER\_GRADES\_1\_2\_DN  
GSE4590\_SMALL\_VS\_VPREB\_POS\_LARGE\_PRE\_BCELL\_DN, GSE4590\_SMALL\_VS\_VPREB\_POS\_LARGE\_PRE\_BCELL\_DN  
HP\_INFLAMMATION\_OF\_THE\_LARGE\_INTESTINE, HP\_INFLAMMATION\_OF\_THE\_LARGE\_INTESTINE  
ZHONG\_PFC\_C9\_ORG\_OTHER, ZHONG\_PFC\_C9\_ORG\_OTHER  
GOBP\_HIPPO\_SIGNALING, GOBP\_HIPPO\_SIGNALING  
GOBP\_POSITIVE\_REGULATION\_OF\_DEVELOPMENTAL\_GROWTH, GOBP\_POSITIVE\_REGULATION\_OF\_DEVELOPMENTAL\_GROWTH  
STARK\_HYPPOCAMPUS\_22Q11\_DELETION\_UP, STARK\_HYPPOCAMPUS\_22Q11\_DELETION\_UP  
GOBP\_POSITIVE\_REGULATION\_OF\_INTERFERON\_BETA\_PRODUCTION, GOBP\_POSITIVE\_REGULATION\_OF\_INTERFERON\_BETA\_PRODUCTION  
CAGNYGKNAAN\_UNKNOWN, CAGNYGKNAAN\_UNKNOWN  
MODULE\_418, MODULE\_418  
HP\_COLITIS, HP\_COLITIS  
REACTOME\_KERATAN\_SULFATE\_KERATIN\_METABOLISM, REACTOME\_KERATAN\_SULFATE\_KERATIN\_METABOLISM  
MIR3934\_5P, MIR3934\_5P  
MIR6823\_3P, MIR6823\_3P  
HP\_LARGE\_FOR\_GESTATIONAL\_AGE, HP\_LARGE\_FOR\_GESTATIONAL\_AGE  
KEGG\_SPHINGOLIPID\_METABOLISM, KEGG\_SPHINGOLIPID\_METABOLISM  
ZHONG\_PFC\_C7\_ORG\_UNDERGOING\_NEURONAL\_DIFFERENTIATION, ZHONG\_PFC\_C7\_ORG\_UNDERGOING\_NEURONAL\_DIFFERENTIATION  
ZHANG\_ANTIVIRAL\_RESPONSE\_TO\_RIBAVIRIN\_DN, ZHANG\_ANTIVIRAL\_RESPONSE\_TO\_RIBAVIRIN\_DN  
HP\_RESTRICTIVE\_VENTILATORY\_DEFECT, HP\_RESTRICTIVE\_VENTILATORY\_DEFECT  
GOCC\_CYTOPLASMIC\_DYNEIN\_COMPLEX, GOCC\_CYTOPLASMIC\_DYNEIN\_COMPLEX  
REACTOME\_GLYCOSPHINGOLIPID\_METABOLISM, REACTOME\_GLYCOSPHINGOLIPID\_METABOLISM  
WP\_INTRAFLAGELLAR\_TRANSPORT\_PROTEINS\_BINDING\_TO\_DYNEIN, WP\_INTRAFLAGELLAR\_TRANSPORT\_PROTEINS\_BINDING\_TO\_DYNEIN  
TURASHVILI\_BREAST\_LOBULAR\_CARCINOMA\_VS\_LOBULAR\_NORMAL\_UP, TURASHVILI\_BREAST\_LOBULAR\_CARCINOMA\_VS\_LOBULAR\_NORMAL\_UP  
GNF2\_RAB7L1, GNF2\_RAB7L1  
KEGG\_GLYCEROLIPID\_METABOLISM, KEGG\_GLYCEROLIPID\_METABOLISM  
GOBP\_KERATAN\_SULFATE\_BIOSYNTHETIC\_PROCESS, GOBP\_KERATAN\_SULFATE\_BIOSYNTHETIC\_PROCESS  
REACTOME\_KERATAN\_SULFATE\_BIOSYNTHESIS, REACTOME\_KERATAN\_SULFATE\_BIOSYNTHESIS  
MODULE\_455, MODULE\_455  
GSE9988\_LPS\_VS\_LOW\_LPS\_MONOCYTE\_UP, GSE9988\_LPS\_VS\_LOW\_LPS\_MONOCYTE\_UP  
TURASHVILI\_BREAST\_CARCINOMA\_DUCTAL\_VS\_LOBULAR\_UP, TURASHVILI\_BREAST\_CARCINOMA\_DUCTAL\_VS\_LOBULAR\_UP  
REACTOME\_GLYCOGEN\_BREAKDOWN\_GLYCOGENOLYSIS, REACTOME\_GLYCOGEN\_BREAKDOWN\_GLYCOGENOLYSIS  
GOMF\_AMP\_BINDING, GOMF\_AMP\_BINDING  
LI\_PBMc\_MENACTRA\_AGE\_18\_45YO\_CORRELATED\_WITH\_ANTI\_POLYSACCHARIDE\_ANTIBODY\_3DY\_NEGATIVE, LI\_PBMc\_MENACTRA\_AGE\_18\_45YO\_CORRELATED\_WITH\_ANTI\_POLYSACCHARIDE\_ANTIBODY\_3DY\_NEGATIVE  
RAY\_ALZHEIMERS\_DISEASE, RAY\_ALZHEIMERS\_DISEASE  
HP\_CORNEAL\_SCARRING, HP\_CORNEAL\_SCARRING  
GOBP\_NONRIBOSOMAL\_PEPTIDE\_BIOSYNTHETIC\_PROCESS, GOBP\_NONRIBOSOMAL\_PEPTIDE\_BIOSYNTHETIC\_PROCESS  
HP\_ABNORMAL\_EPIPHYSIS\_MORPHOLOGY\_OF\_THE\_PHALANGES\_OF\_THE\_HAND, HP\_ABNORMAL\_EPIPHYSIS\_MORPHOLOGY\_OF\_THE\_PHALANGES\_OF\_THE\_HAND  
MIR3651, MIR3651  
WESTON\_VEGFA\_TARGETS\_6HR, WESTON\_VEGFA\_TARGETS\_6HR  
GOBP\_MUSCLE\_FIBER\_DEVELOPMENT, GOBP\_MUSCLE\_FIBER\_DEVELOPMENT  
GOBP\_GOLGI\_RIBBON\_FORMATION, GOBP\_GOLGI\_RIBBON\_FORMATION  
FAN\_EMBRYONIC\_CTX\_EX\_2\_EXCITATORY\_NEURON, FAN\_EMBRYONIC\_CTX\_EX\_2\_EXCITATORY\_NEURON  
RIZ\_ERYTHROID\_DIFFERENTIATION\_APOBEC2, RIZ\_ERYTHROID\_DIFFERENTIATION\_APOBEC2  
REACTOME\_GLUTATHIONE\_SYNTHESIS\_AND\_RECYCLING, REACTOME\_GLUTATHIONE\_SYNTHESIS\_AND\_RECYCLING  
GOBP\_CELL\_DIFFERENTIATION\_INVOLVED\_IN\_EMBRYONIC\_PLACENTA\_DEVELOPMENT, GOBP\_CELL\_DIFFERENTIATION\_INVOLVED\_IN\_EMBRYONIC\_PLACENTA\_DEVELOPMENT  
HP\_VERRUCAE, HP\_VERRUCAE  
REACTOME\_N\_GLYCAN\_ANTENNAE\_ELONGATION, REACTOME\_N\_GLYCAN\_ANTENNAE\_ELONGATION  
GOBP\_NEGATIVE\_REGULATION\_OF\_B\_CELL\_ACTIVATION, GOBP\_NEGATIVE\_REGULATION\_OF\_B\_CELL\_ACTIVATION  
BANDRES\_RESPONSE\_TO\_CARMUSTIN\_WITHOUT\_MGMT\_48HR\_UP, BANDRES\_RESPONSE\_TO\_CARMUSTIN\_WITHOUT\_MGMT\_48HR\_UP  
GOMF\_CXCR\_CHEMOKINE\_RECEPTOR\_BINDING, GOMF\_CXCR\_CHEMOKINE\_RECEPTOR\_BINDING