

SHOCK\_AND\_LPS\_STIM\_MEF\_DN, GSE16266\_LPS\_VS\_HEATSHOCK\_AND\_LPS\_STIM\_MEF\_DN

GSE6259\_BCELL\_VS\_CD8\_TCELL\_DN, GSE6259\_BCELL\_VS\_CD8\_TCELL\_DN  
GSE34156\_UNTREATED\_VS\_24H\_NOD2\_LIGAND\_TREATED\_MONOCYTE\_DN, GSE34156\_UNTREATED\_VS\_24H\_NOD2\_LIGAND\_TREATED\_MONOCYTE\_DN  
GSE34515\_CD16\_POS\_MONOCYTE\_VS\_DC\_DN, GSE34515\_CD16\_POS\_MONOCYTE\_VS\_DC\_DN  
GSE24634\_TREG\_VS\_TCONV\_POST\_DAY5\_IL4\_CONVERSION\_DN, GSE24634\_TREG\_VS\_TCONV\_POST\_DAY5\_IL4\_CONVERSION\_DN  
GSE10325\_CD4\_TCELL\_VS\_MYELOID\_DN, GSE10325\_CD4\_TCELL\_VS\_MYELOID\_DN  
GSE21546\_WT\_VS\_SAPIA\_KO\_ANTL\_CD3\_STIM\_DP\_THYMOCYTES\_DN, GSE21546\_WT\_VS\_SAPIA\_KO\_ANTL\_CD3\_STIM\_DP\_THYMOCYTES\_DN  
GSE45739\_UNSTIM\_VS\_ACD3\_ACD28\_STIM\_NRAS\_KO\_CD4\_TCELL\_UP, GSE45739\_UNSTIM\_VS\_ACD3\_ACD28\_STIM\_NRAS\_KO\_CD4\_TCELL\_UP  
GSE24634\_TREG\_VS\_TCONV\_POST\_DAY3\_IL4\_CONVERSION\_DN, GSE24634\_TREG\_VS\_TCONV\_POST\_DAY3\_IL4\_CONVERSION\_DN  
GSE20727\_CTRL\_VS\_H2O2\_TREATED\_DC\_UP, GSE20727\_CTRL\_VS\_H2O2\_TREATED\_DC\_UP  
GSE9988\_LOW\_LPS\_VS\_ANTL\_TREM1\_AND\_LPS\_MONOCYTE\_DN, GSE9988\_LOW\_LPS\_VS\_ANTL\_TREM1\_AND\_LPS\_MONOCYTE\_DN  
GSE14000\_UNSTIM\_VS\_16H\_LPS\_DC\_TRANSLATED\_RNA\_DN, GSE14000\_UNSTIM\_VS\_16H\_LPS\_DC\_TRANSLATED\_RNA\_DN  
GSE37605\_TREG\_VS\_TCONV\_NOD\_FOXP3\_FUSION\_GFP\_DN, GSE37605\_TREG\_VS\_TCONV\_NOD\_FOXP3\_FUSION\_GFP\_DN  
GSE34156\_TLR1\_TLR2\_LIGAND\_VS\_NOD2\_AND\_TLR1\_TLR2\_LIGAND\_24H\_TREATED\_MONOCYTE\_UP, GSE34156\_TLR1\_TLR2\_LIGAND\_VS\_NOD2\_AND\_TLR1\_TLR2\_LIGAND\_24H\_TREATED\_MONOCYTE\_UP  
GSE2197\_IMMUNOSUPPRESSIVE\_DNA\_VS\_UNTREATED\_IN\_DC\_UP, GSE2197\_IMMUNOSUPPRESSIVE\_DNA\_VS\_UNTREATED\_IN\_DC\_UP  
GSE22196\_HEALTHY\_VS\_OBESE\_MOUSE\_SKIN\_GAMMADELTA\_TCELL\_UP, GSE22196\_HEALTHY\_VS\_OBESE\_MOUSE\_SKIN\_GAMMADELTA\_TCELL\_UP  
MIR520F\_3P, MIR520F\_3P  
GSE6259\_33D1\_POS\_VS\_DEC205\_POS\_SPLENIC\_DC\_UP, GSE6259\_33D1\_POS\_VS\_DEC205\_POS\_SPLENIC\_DC\_UP  
TRAVAGLINI\_LUNG\_NONCLASSICAL\_MONOCYTE\_CELL, TRAVAGLINI\_LUNG\_NONCLASSICAL\_MONOCYTE\_CELL  
GSE9988\_ANTL\_TREM1\_VS\_ANTL\_TREM1\_AND\_LPS\_MONOCYTE\_DN, GSE9988\_ANTL\_TREM1\_VS\_ANTL\_TREM1\_AND\_LPS\_MONOCYTE\_DN  
GSE17721\_LPS\_VS\_PAM3CSK4\_1H\_BMDC\_DN, GSE17721\_LPS\_VS\_PAM3CSK4\_1H\_BMDC\_DN  
GSE19198\_1H\_VS\_24H\_IL21\_TREATED\_TCELL\_DN, GSE19198\_1H\_VS\_24H\_IL21\_TREATED\_TCELL\_DN  
GSE19198\_6H\_VS\_24H\_IL21\_TREATED\_TCELL\_DN, GSE19198\_6H\_VS\_24H\_IL21\_TREATED\_TCELL\_DN  
GSE24634\_IL4\_VS\_CTRL\_TREATED\_NAIVE\_CD4\_TCELL\_DAY5\_UP, GSE24634\_IL4\_VS\_CTRL\_TREATED\_NAIVE\_CD4\_TCELL\_DAY5\_UP  
GSE18791\_CTRL\_VS\_NEWCASTLE\_VIRUS\_DC\_6H\_DN, GSE18791\_CTRL\_VS\_NEWCASTLE\_VIRUS\_DC\_6H\_DN  
GSE9960\_HEALTHY\_VS\_GRAM\_POS\_SEPSIS\_PBMCDN, GSE9960\_HEALTHY\_VS\_GRAM\_POS\_SEPSIS\_PBMCDN  
GSE13485\_CTRL\_VS\_DAY3\_YF17D\_VACCINE\_PBMCDN, GSE13485\_CTRL\_VS\_DAY3\_YF17D\_VACCINE\_PBMCDN  
GSE11057\_PBMCDN\_VS\_MEM\_CD4\_TCELL\_UP, GSE11057\_PBMCDN\_VS\_MEM\_CD4\_TCELL\_UP  
GSE40274\_FOXP3\_VS\_FOXP3\_AND\_PBX1\_TRANSDUCED\_ACTIVATED\_CD4\_TCELL\_UP, GSE40274\_FOXP3\_VS\_FOXP3\_AND\_PBX1\_TRANSDUCED\_ACTIVATED\_CD4\_TCELL\_UP  
GSE36009\_UNSTIM\_VS\_LPS\_STIM\_DC\_UP, GSE36009\_UNSTIM\_VS\_LPS\_STIM\_DC\_UP  
GSE2706\_UNSTIM\_VS\_2H\_R848\_DC\_DN, GSE2706\_UNSTIM\_VS\_2H\_R848\_DC\_DN  
GSE17721\_LPS\_VS\_PAM3CSK4\_4H\_BMDC\_UP, GSE17721\_LPS\_VS\_PAM3CSK4\_4H\_BMDC\_UP  
GOMF\_PHOSPHOPROTEIN\_PHOSPHATASE\_ACTIVITY, GOMF\_PHOSPHOPROTEIN\_PHOSPHATASE\_ACTIVITY  
GSE26343\_WT\_VS\_NFAT5\_KO\_MACROPHAGE\_DN, GSE26343\_WT\_VS\_NFAT5\_KO\_MACROPHAGE\_DN  
GSE34156\_NOD2\_LIGAND\_VS\_TLR1\_TLR2\_LIGAND\_6H\_TREATED\_MONOCYTE\_DN, GSE34156\_NOD2\_LIGAND\_VS\_TLR1\_TLR2\_LIGAND\_6H\_TREATED\_MONOCYTE\_DN  
GSE3039\_CD4\_TCELL\_VS\_ALPHAALPHA\_CD8\_TCELL\_UP, GSE3039\_CD4\_TCELL\_VS\_ALPHAALPHA\_CD8\_TCELL\_UP  
GSE18791\_CTRL\_VS\_NEWCASTLE\_VIRUS\_DC\_10H\_DN, GSE18791\_CTRL\_VS\_NEWCASTLE\_VIRUS\_DC\_10H\_DN  
GSE7348\_LPS\_VS\_TOLERIZED\_AND\_LPS\_STIM\_MACROPHAGE\_DN, GSE7348\_LPS\_VS\_TOLERIZED\_AND\_LPS\_STIM\_MACROPHAGE\_DN  
HALLMARK\_INFLAMMATORY\_RESPONSE, HALLMARK\_INFLAMMATORY\_RESPONSE  
GSE22886\_JGA\_VS\_JGM\_MEMORY\_BCELL\_DN, GSE22886\_JGA\_VS\_JGM\_MEMORY\_BCELL\_DN  
REACTOME\_TOLL\_LIKE\_RECEPTOR\_CASCADES, REACTOME\_TOLL\_LIKE\_RECEPTOR\_CASCADES  
REACTOME\_MYD88\_INDEPENDENT\_TLR4\_CASCADE, REACTOME\_MYD88\_INDEPENDENT\_TLR4\_CASCADE  
GSE3039\_ALPHAALPHA\_VS\_ALPHABETA\_CD8\_TCELL\_DN, GSE3039\_ALPHAALPHA\_VS\_ALPHABETA\_CD8\_TCELL\_DN  
GSE18791\_UNSTIM\_VS\_NEWCASTLE\_VIRUS\_DC\_6H\_DN, GSE18791\_UNSTIM\_VS\_NEWCASTLE\_VIRUS\_DC\_6H\_DN  
GSE22025\_PROGESTERONE\_VS\_TGFB1\_AND\_PROGESTERONE\_TREATED\_CD4\_TCELL\_DN, GSE22025\_PROGESTERONE\_VS\_TGFB1\_AND\_PROGESTERONE\_TREATED\_CD4\_TCELL\_DN  
GSE17974\_IL4\_AND\_ANTL\_IL12\_VS\_UNTREATED\_4H\_ACT\_CD4\_TCELL\_UP, GSE17974\_IL4\_AND\_ANTL\_IL12\_VS\_UNTREATED\_4H\_ACT\_CD4\_TCELL\_UP  
GSE17721\_CTRL\_VS\_LPS\_0.5H\_BMDC\_DN, GSE17721\_CTRL\_VS\_LPS\_0.5H\_BMDC\_DN  
ESC\_J1\_UP\_EARLY.V1\_DN, ESC\_J1\_UP\_EARLY.V1\_DN  
GSE17721\_0.5H\_VS\_4H\_LPS\_BMDC\_DN, GSE17721\_0.5H\_VS\_4H\_LPS\_BMDC\_DN  
GSE2706\_UNSTIM\_VS\_2H\_LPS\_DC\_DN, GSE2706\_UNSTIM\_VS\_2H\_LPS\_DC\_DN  
TGFB\_UP.V1\_DN, TGFB\_UP.V1\_DN  
GSE1460\_INTRATHYMIC\_T\_PROGENITOR\_VS\_CD4\_THYMOCYTE\_DN, GSE1460\_INTRATHYMIC\_T\_PROGENITOR\_VS\_CD4\_THYMOCYTE\_DN  
MIR30C\_2\_3P, MIR30C\_2\_3P  
GSE18791\_CTRL\_VS\_NEWCASTLE\_VIRUS\_DC\_8H\_DN, GSE18791\_CTRL\_VS\_NEWCASTLE\_VIRUS\_DC\_8H\_DN  
GSE18791\_CTRL\_VS\_NEWCASTLE\_VIRUS\_DC\_4H\_DN, GSE18791\_CTRL\_VS\_NEWCASTLE\_VIRUS\_DC\_4H\_DN  
GSE17974\_IL4\_AND\_ANTL\_IL12\_VS\_UNTREATED\_2H\_ACT\_CD4\_TCELL\_UP, GSE17974\_IL4\_AND\_ANTL\_IL12\_VS\_UNTREATED\_2H\_ACT\_CD4\_TCELL\_UP  
MIR6788\_5P, MIR6788\_5P  
MIR30C\_1\_3P, MIR30C\_1\_3P  
GSE2706\_R848\_VS\_R848\_AND\_LPS\_2H\_STIM\_DC\_DN, GSE2706\_R848\_VS\_R848\_AND\_LPS\_2H\_STIM\_DC\_DN  
GSE22342\_CD11C\_HIGH\_VS\_LOW\_DECIDUAL\_MACROPHAGES\_UP, GSE22342\_CD11C\_HIGH\_VS\_LOW\_DECIDUAL\_MACROPHAGES\_UP  
GSE46606\_IRF4\_KO\_VS\_WT\_UNSTIM\_BCELL\_DN, GSE46606\_IRF4\_KO\_VS\_WT\_UNSTIM\_BCELL\_DN  
MIR7158\_3P, MIR7158\_3P  
HP\_APLASIA\_HYPOPLASIA\_INVOLVING\_THE\_METACARPAL\_BONES, HP\_APLASIA\_HYPOPLASIA\_INVOLVING\_THE\_METACARPAL\_BONES  
DESCARTES\_FETAL\_HEART\_MYELOID\_CELLS, DESCARTES\_FETAL\_HEART\_MYELOID\_CELLS  
HEN1\_02, HEN1\_02  
MIR149\_5P, MIR149\_5P  
DESCARTES\_MAIN\_FETAL\_MYELOID\_CELLS, DESCARTES\_MAIN\_FETAL\_MYELOID\_CELLS  
MIR6088, MIR6088  
DESCARTES\_FETAL\_SPLEEN\_MYELOID\_CELLS, DESCARTES\_FETAL\_SPLEEN\_MYELOID\_CELLS  
MIR21\_5P, MIR21\_5P  
MIR590\_5P, MIR590\_5P  
DESCARTES\_FETAL\_THYMUS\_ANTIGEN\_PRESENTING\_CELLS, DESCARTES\_FETAL\_THYMUS\_ANTIGEN\_PRESENTING\_CELLS  
GSE7460\_TREG\_VS\_TCONV\_ACT\_WITH\_TGFB\_UP, GSE7460\_TREG\_VS\_TCONV\_ACT\_WITH\_TGFB\_UP  
GSE17721\_CTRL\_VS\_LPS\_4H\_BMDC\_DN, GSE17721\_CTRL\_VS\_LPS\_4H\_BMDC\_DN  
MATSUMIYA\_PBMCDN\_MODIFIED\_VACCINIA\_ANKARA\_VACCINE\_AGE\_18\_55YO\_VACCINATED\_VS\_CONTROL\_TREATED\_IN\_VITRO\_WITH\_MVA85A\_6HR\_UP, MATSUMIYA\_PBMCDN\_MODIFIED\_VACCINIA\_ANKARA\_VACCINE\_AGE\_18\_55YO\_VACCINATED\_VS\_CONTROL\_TREATED\_IN\_VITRO\_WITH\_MVA85A\_6HR\_UP  
MIR767\_3P, MIR767\_3P  
GSE13411\_NAIVE\_VS\_JGM\_MEMORY\_BCELL\_UP, GSE13411\_NAIVE\_VS\_JGM\_MEMORY\_BCELL\_UP  
MIR3688\_5P, MIR3688\_5P  
BOSCO\_INTERFERON\_INDUCED\_ANTIVIRAL\_MODULE, BOSCO\_INTERFERON\_INDUCED\_ANTIVIRAL\_MODULE  
MIR623, MIR623  
GSE17721\_CTRL\_VS\_LPS\_1H\_BMDC\_DN, GSE17721\_CTRL\_VS\_LPS\_1H\_BMDC\_DN  
GSE12366\_NAIVE\_VS\_MEMORY\_BCELL\_UP, GSE12366\_NAIVE\_VS\_MEMORY\_BCELL\_UP  
MIR325, MIR325  
GSE17721\_PAM3CSK4\_VS\_GADIQUIMOD\_1H\_BMDC\_UP, GSE17721\_PAM3CSK4\_VS\_GADIQUIMOD\_1H\_BMDC\_UP  
MIR5693, MIR5693  
MIR6810\_3P, MIR6810\_3P  
MIR562, MIR562  
PKCA\_DN.V1\_DN, PKCA\_DN.V1\_DN  
WINZEN\_DEGRADED\_VIA\_KHSRP, WINZEN\_DEGRADED\_VIA\_KHSRP  
WP\_3Q29\_COPY\_NUMBER\_VARIATION\_SYNDROME, WP\_3Q29\_COPY\_NUMBER\_VARIATION\_SYNDROME  
MIR595, MIR595  
GCAAGAC\_MIR431, GCAAGAC\_MIR431  
GOMF\_ACTIVATING\_TRANSCRIPTION\_FACTOR\_BINDING, GOMF\_ACTIVATING\_TRANSCRIPTION\_FACTOR\_BINDING  
GSE29618\_PRE\_VS\_DAY7\_POST\_TIV\_FLU\_VACCINE\_MONOCYTE\_UP, GSE29618\_PRE\_VS\_DAY7\_POST\_TIV\_FLU\_VACCINE\_MONOCYTE\_UP  
ZHAN\_MULTIPLE\_MYELOMA\_LB\_DN, ZHAN\_MULTIPLE\_MYELOMA\_LB\_DN  
GSE25677\_MPL\_VS\_MPL\_AND\_R848\_STIM\_BCELL\_DN, GSE25677\_MPL\_VS\_MPL\_AND\_R848\_STIM\_BCELL\_DN  
MIR383\_5P, MIR383\_5P  
GSE17721\_CTRL\_VS\_PAM3CSK4\_2H\_BMDC\_DN, GSE17721\_CTRL\_VS\_PAM3CSK4\_2H\_BMDC\_DN  
GOBP\_FEMALE\_SEX\_DIFFERENTIATION, GOBP\_FEMALE\_SEX\_DIFFERENTIATION  
GOBP\_PYRIDINE\_CONTAINING\_COMPOUND\_METABOLIC\_PROCESS, GOBP\_PYRIDINE\_CONTAINING\_COMPOUND\_METABOLIC\_PROCESS  
WAMUNYOKOLI\_OVARIAN\_CANCER\_GRADES\_1\_2\_DN, WAMUNYOKOLI\_OVARIAN\_CANCER\_GRADES\_1\_2\_DN  
GSE17974\_IL4\_AND\_ANTL\_IL12\_VS\_UNTREATED\_6H\_ACT\_CD4\_TCELL\_UP, GSE17974\_IL4\_AND\_ANTL\_IL12\_VS\_UNTREATED\_6H\_ACT\_CD4\_TCELL\_UP  
GOBP\_PYRIDINE\_CONTAINING\_COMPOUND\_BIOSYNTHETIC\_PROCESS, GOBP\_PYRIDINE\_CONTAINING\_COMPOUND\_BIOSYNTHETIC\_PROCESS  
GSE37301\_PRO\_BCELL\_VS\_CD4\_TCELL\_DN, GSE37301\_PRO\_BCELL\_VS\_CD4\_TCELL\_DN  
WU\_SILENCED\_BY\_METHYLATION\_IN\_BLADDER\_CANCER, WU\_SILENCED\_BY\_METHYLATION\_IN\_BLADDER\_CANCER  
HP\_ABNORMAL\_MIDDLE\_PHALANX\_MORPHOLOGY\_OF\_THE\_HAND, HP\_ABNORMAL\_MIDDLE\_PHALANX\_MORPHOLOGY\_OF\_THE\_HAND  
MIR6801\_3P, MIR6801\_3P  
GOMF\_RNA\_POLYMERASE\_II\_ACTIVATING\_TRANSCRIPTION\_FACTOR\_BINDING, GOMF\_RNA\_POLYMERASE\_II\_ACTIVATING\_TRANSCRIPTION\_FACTOR\_BINDING  
GATA\_Q6, GATA\_Q6  
HP\_DISTURBANCE\_OF\_FACIAL\_EXPRESSION, HP\_DISTURBANCE\_OF\_FACIAL\_EXPRESSION  
MIR631, MIR631  
MIR9903, MIR9903  
GHANDHI\_DIRECT\_IRRADIATION\_UP, GHANDHI\_DIRECT\_IRRADIATION\_UP  
GOBP\_OVULATION\_CYCLE, GOBP\_OVULATION\_CYCLE  
ZHAN\_MULTIPLE\_MYELOMA\_LB\_UP, ZHAN\_MULTIPLE\_MYELOMA\_LB\_UP  
GARGALOVIC\_RESPONSE\_TO\_OXIDIZED\_PHOSPHOLIPIDS\_GREY\_DN, GARGALOVIC\_RESPONSE\_TO\_OXIDIZED\_PHOSPHOLIPIDS\_GREY\_DN  
GOBP\_OUTFLOW\_TRACT\_SEPTUM\_MORPHOGENESIS, GOBP\_OUTFLOW\_TRACT\_SEPTUM\_MORPHOGENESIS  
MIR4446\_3P, MIR4446\_3P  
FRASOR\_TAMOXIFEN\_RESPONSE\_DN, FRASOR\_TAMOXIFEN\_RESPONSE\_DN  
GENTLES\_LEUKEMIC\_STEM\_CELL\_UP, GENTLES\_LEUKEMIC\_STEM\_CELL\_UP  
VALK\_AML\_CLUSTER\_5, VALK\_AML\_CLUSTER\_5  
GAUCHER\_PBMCDN\_YF\_VAX\_STAMARIL\_UNKNOWN\_AGE\_14DY\_DN, GAUCHER\_PBMCDN\_YF\_VAX\_STAMARIL\_UNKNOWN\_AGE\_14DY\_DN  
MARCINIAK\_ER\_STRESS\_RESPONSE\_VIA\_CHOP, MARCINIAK\_ER\_STRESS\_RESPONSE\_VIA\_CHOP  
WHITEHURST\_PACLITAXEL\_SENSITIVITY, WHITEHURST\_PACLITAXEL\_SENSITIVITY  
chr7p14, chr7p14  
FOXC1\_TARGET\_GENES, FOXC1\_TARGET\_GENES  
GOBP\_POSITIVE\_REGULATION\_OF\_AMYLOID\_PRECURSOR\_PROTEIN\_CATABOLIC\_PROCESS, GOBP\_POSITIVE\_REGULATION\_OF\_AMYLOID\_PRECURSOR\_PROTEIN\_CATABOLIC\_PROCESS  
THAKAR\_PBMCDN\_INACTIVATED\_INFLUENZA\_AGE\_21\_30YO\_VS\_70PLS\_0DY\_UP, THAKAR\_PBMCDN\_INACTIVATED\_INFLUENZA\_AGE\_21\_30YO\_VS\_70PLS\_0DY\_UP  
MODULE\_289, MODULE\_289  
GSE7596\_AKT\_TRANSD\_VS\_CTRL\_CD4\_TCONV\_WITH\_TGFB\_DN, GSE7596\_AKT\_TRANSD\_VS\_CTRL\_CD4\_TCONV\_WITH\_TGFB\_DN  
GOBP\_INTERLEUKIN\_4\_MEDIATED\_SIGNALING\_PATHWAY, GOBP\_INTERLEUKIN\_4\_MEDIATED\_SIGNALING\_PATHWAY  
GOBP\_NEGATIVE\_REGULATION\_OF\_ADAPTIVE\_IMMUNE\_RESPONSE, GOBP\_NEGATIVE\_REGULATION\_OF\_ADAPTIVE\_IMMUNE\_RESPONSE  
SARTIPY\_BLUNTED\_BY\_INSULIN\_RESISTANCE\_UP, SARTIPY\_BLUNTED\_BY\_INSULIN\_RESISTANCE\_UP  
HP\_DISTAL\_ARTHROGRYPOSIS, HP\_DISTAL\_ARTHROGRYPOSIS  
GOBP\_POSITIVE\_REGULATION\_OF\_BIOMINERALIZATION, GOBP\_POSITIVE\_REGULATION\_OF\_BIOMINERALIZATION  
GSE14413\_UNSTIM\_VS\_IFNB\_STIM\_L929\_CELLS\_UP, GSE14413\_UNSTIM\_VS\_IFNB\_STIM\_L929\_CELLS\_UP  
STEGMEIER\_PREMITOTIC\_CELL\_CYCLE\_REGULATORS, STEGMEIER\_PREMITOTIC\_CELL\_CYCLE\_REGULATORS  
GOBP\_RESPONSE\_TO\_DIETARY\_EXCESS, GOBP\_RESPONSE\_TO\_DIETARY\_EXCESS  
MIR331\_3P, MIR331\_3P