

TO\_PROGESTERONE\_CLUSTER\_17, YAO\_TEMPORAL\_RESPONSE\_TO\_PROGESTERONE\_CLUSTER\_17

REACTOME\_MITOCHONDRIAL\_TRANSLATION, MITOCHONDRIAL\_TRANSLATION  
REACTOME\_THE\_CITRIC\_ACID\_TCA\_CYCLE\_AND\_RESPIRATORY\_ELECTRON\_TRANSPORT, REACTOME\_THE\_CITRIC\_ACID\_TCA\_CYCLE\_AND\_RESPIRATORY\_ELECTRON\_TRANSPORT  
REACTOME\_RESPIRATORY\_ELECTRON\_TRANSPORT\_ATP\_SYNTHESIS\_BY\_CHEMIOSMOTIC\_COUPLING\_AND\_HEAT\_PRODUCTION\_BY\_UNCOUPLING\_PROTEINS, REACTOME\_RESPIRATORY\_ELECTRON\_TRANSPORT\_ATP\_SYNTHESIS\_BY\_CHEMIOSMOTIC\_COUPLING\_AND\_HEAT\_PRODUCTION\_BY\_UNCOUPLING\_PROTEINS  
REACTOME\_S\_PHASE, REACTOME\_S\_PHASE  
REACTOME\_RESPIRATORY\_ELECTRON\_TRANSPORT, REACTOME\_RESPIRATORY\_ELECTRON\_TRANSPORT  
REACTOME\_MITOTIC\_G1\_PHASE\_AND\_G1\_S\_TRANSITION, REACTOME\_MITOTIC\_G1\_PHASE\_AND\_G1\_S\_TRANSITION  
MOOTHA\_VOXPPOS, MOOTHA\_VOXPPOS  
SCHLOSSER\_MYC\_TARGETS\_AND\_SERUM\_RESPONSE\_UP, SCHLOSSER\_MYC\_TARGETS\_AND\_SERUM\_RESPONSE\_UP  
REACTOME\_PTEN\_REGULATION, REACTOME\_PTEN\_REGULATION  
KIM\_ALL\_DISORDERS\_DURATION\_CORR\_DN, KIM\_ALL\_DISORDERS\_DURATION\_CORR\_DN  
REACTOME\_GLOBAL\_GENOME\_NUCLEOTIDE\_EXCISION\_REPAIR\_GG\_NER, REACTOME\_GLOBAL\_GENOME\_NUCLEOTIDE\_EXCISION\_REPAIR\_GG\_NER  
REACTOME\_MITOCHONDRIAL\_PROTEIN\_IMPORT, REACTOME\_MITOCHONDRIAL\_PROTEIN\_IMPORT  
REACTOME\_CYTOPROTECTION\_BY\_HMOX1, REACTOME\_CYTOPROTECTION\_BY\_HMOX1  
REACTOME\_SWITCHING\_OF\_ORIGINS\_TO\_A\_POST\_REPLICATIVE\_STATE, REACTOME\_SWITCHING\_OF\_ORIGINS\_TO\_A\_POST\_REPLICATIVE\_STATE  
REACTOME\_REGULATION\_OF\_MRNA\_STABILITY\_BY\_PROTEINS\_THAT\_BIND\_AU\_RICH\_ELEMENTS, REACTOME\_REGULATION\_OF\_MRNA\_STABILITY\_BY\_PROTEINS\_THAT\_BIND\_AU\_RICH\_ELEMENTS  
REACTOME\_CYCLIN\_A\_CDK2\_ASSOCIATED\_EVENTS\_AT\_S\_PHASE\_ENTRY, REACTOME\_CYCLIN\_A\_CDK2\_ASSOCIATED\_EVENTS\_AT\_S\_PHASE\_ENTRY  
REACTOME\_UCH\_PROTEINASES, REACTOME\_UCH\_PROTEINASES  
BURTON\_ADIPOGENESIS\_5, BURTON\_ADIPOGENESIS\_5  
REACTOME\_APC\_C\_MEDIATED\_DEGRADATION\_OF\_CELL\_CYCLE\_PROTEINS, REACTOME\_APC\_C\_MEDIATED\_DEGRADATION\_OF\_CELL\_CYCLE\_PROTEINS  
REACTOME\_CELLULAR\_RESPONSE\_TO\_CHEMICAL\_STRESS, REACTOME\_CELLULAR\_RESPONSE\_TO\_CHEMICAL\_STRESS  
WP\_ELECTRON\_TRANSPORT\_CHAIN\_OXPPOS\_SYSTEM\_IN\_MITOCHONDRIA, WP\_ELECTRON\_TRANSPORT\_CHAIN\_OXPPOS\_SYSTEM\_IN\_MITOCHONDRIA  
REACTOME\_COMPLEX\_I\_BIOGENESIS, REACTOME\_COMPLEX\_I\_BIOGENESIS  
REACTOME\_DNA\_REPLICATION\_PRE\_INITIATION, REACTOME\_DNA\_REPLICATION\_PRE\_INITIATION  
REACTOME\_C\_TYPE\_LECTIN\_RECEPTORS\_CLRS, REACTOME\_C\_TYPE\_LECTIN\_RECEPTORS\_CLRS  
REACTOME\_APC\_C\_CDH1\_MEDIATED\_DEGRADATION\_OF\_CDC20\_AND\_OTHER\_APC\_C\_CDH1\_TARGETED\_PROTEINS\_IN\_LATE\_MITOSIS\_EARLY\_G1, REACTOME\_APC\_C\_CDH1\_MEDIATED\_DEGRADATION\_OF\_CDC20\_AND\_OTHER\_APC\_C\_CDH1\_TARGETED\_PROTEINS\_IN\_LATE\_MITOSIS\_EARLY\_G1  
REACTOME\_CLEC7A\_DECTIN\_1\_SIGNALING, REACTOME\_CLEC7A\_DECTIN\_1\_SIGNALING  
WP\_MITOCHONDRIAL\_COMPLEX\_I\_ASSEMBLY\_MODEL\_OXPPOS\_SYSTEM, WP\_MITOCHONDRIAL\_COMPLEX\_I\_ASSEMBLY\_MODEL\_OXPPOS\_SYSTEM  
REACTOME\_DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECEPTOR\_BCR, REACTOME\_DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECEPTOR\_BCR  
SCHLOSSER\_SERUM\_RESPONSE\_AUGMENTED\_BY\_MYC, SCHLOSSER\_SERUM\_RESPONSE\_AUGMENTED\_BY\_MYC  
REACTOME\_REGULATION\_OF\_PTEN\_STABILITY\_AND\_ACTIVITY, REACTOME\_REGULATION\_OF\_PTEN\_STABILITY\_AND\_ACTIVITY  
BURTON\_ADIPOGENESIS\_6, BURTON\_ADIPOGENESIS\_6  
BYSTRYKH\_HEMATOPOIESIS\_STEM\_CELL\_AND\_BRAIN\_QTL\_CIS, BYSTRYKH\_HEMATOPOIESIS\_STEM\_CELL\_AND\_BRAIN\_QTL\_CIS  
REACTOME\_ORC1\_REMOVAL\_FROM\_CHROMATIN, REACTOME\_ORC1\_REMOVAL\_FROM\_CHROMATIN  
REACTOME\_DEGRADATION\_OF\_BETA\_CATENIN\_BY\_THE\_DESTRUCTION\_COMPLEX, REACTOME\_DEGRADATION\_OF\_BETA\_CATENIN\_BY\_THE\_DESTRUCTION\_COMPLEX  
REACTOME\_ASSEMBLY\_OF\_THE\_PRE\_REPLICATIVE\_COMPLEX, REACTOME\_ASSEMBLY\_OF\_THE\_PRE\_REPLICATIVE\_COMPLEX  
REACTOME\_NEGATIVE\_REGULATION\_OF\_NOTCH4\_SIGNALING, REACTOME\_NEGATIVE\_REGULATION\_OF\_NOTCH4\_SIGNALING  
REACTOME\_REGULATION\_OF\_HMOX1\_EXPRESSION\_AND\_ACTIVITY, REACTOME\_REGULATION\_OF\_HMOX1\_EXPRESSION\_AND\_ACTIVITY  
REACTOME\_CELLULAR\_RESPONSE\_TO\_HYPOXIA, REACTOME\_CELLULAR\_RESPONSE\_TO\_HYPOXIA  
REACTOME\_SCF\_SKP2\_MEDIATED\_DEGRADATION\_OF\_P27\_P21, REACTOME\_SCF\_SKP2\_MEDIATED\_DEGRADATION\_OF\_P27\_P21  
REACTOME\_INTERLEUKIN\_1\_SIGNALING, REACTOME\_INTERLEUKIN\_1\_SIGNALING  
KEGG\_HUNTINGTONS\_DISEASE, KEGG\_HUNTINGTONS\_DISEASE  
REACTOME\_DECTIN\_1\_MEDIATED\_NONCANONICAL\_NF\_KB\_SIGNALING, REACTOME\_DECTIN\_1\_MEDIATED\_NONCANONICAL\_NF\_KB\_SIGNALING  
REACTOME\_HEDGEHOG\_OFF\_STATE, REACTOME\_HEDGEHOG\_OFF\_STATE  
REACTOME\_SIGNALING\_BY\_HEDGEHOG, REACTOME\_SIGNALING\_BY\_HEDGEHOG  
BYSTRYKH\_HEMATOPOIESIS\_STEM\_CELL\_QTL\_CIS, BYSTRYKH\_HEMATOPOIESIS\_STEM\_CELL\_QTL\_CIS  
KEGG\_CITRATE\_CYCLE\_TCA\_CYCLE, KEGG\_CITRATE\_CYCLE\_TCA\_CYCLE  
WP\_PROTEASOME\_DEGRADATION, WP\_PROTEASOME\_DEGRADATION  
REACTOME\_AUF1\_HNRNP\_D0\_BINDS\_AND\_DESTABILIZES\_MRNA, REACTOME\_AUF1\_HNRNP\_D0\_BINDS\_AND\_DESTABILIZES\_MRNA  
PELLICCIOTTA\_HDAC\_IN\_ANTIEN\_PRESENTATION\_UP, PELLICCIOTTA\_HDAC\_IN\_ANTIEN\_PRESENTATION\_UP  
REACTOME\_G1\_S\_DNA\_DAMAGE\_CHECKPOINTS, REACTOME\_G1\_S\_DNA\_DAMAGE\_CHECKPOINTS  
WP\_ANDROGEN\_RECEPTOR\_SIGNALING\_PATHWAY, WP\_ANDROGEN\_RECEPTOR\_SIGNALING\_PATHWAY  
WP\_OXIDATIVE\_PHOSPHORYLATION, WP\_OXIDATIVE\_PHOSPHORYLATION  
JIANG\_HYPOXIA\_CANCER, JIANG\_HYPOXIA\_CANCER  
REACTOME\_DEGRADATION\_OF\_DVL, REACTOME\_DEGRADATION\_OF\_DVL  
REACTOME\_DEGRADATION\_OF\_GLI1\_BY\_THE\_PROTEASOME, REACTOME\_DEGRADATION\_OF\_GLI1\_BY\_THE\_PROTEASOME  
KEGG\_OXIDATIVE\_PHOSPHORYLATION, KEGG\_OXIDATIVE\_PHOSPHORYLATION  
REACTOME\_STABILIZATION\_OF\_P53, REACTOME\_STABILIZATION\_OF\_P53  
REACTOME\_FORMATION\_OF\_TC\_NER\_PRE\_INCISION\_COMPLEX, REACTOME\_FORMATION\_OF\_TC\_NER\_PRE\_INCISION\_COMPLEX  
KEGG\_PARKINSONS\_DISEASE, KEGG\_PARKINSONS\_DISEASE  
REACTOME\_REGULATION\_OF\_RUNX3\_EXPRESSION\_AND\_ACTIVITY, REACTOME\_REGULATION\_OF\_RUNX3\_EXPRESSION\_AND\_ACTIVITY  
REACTOME\_METABOLISM\_OF\_POLYAMINES, REACTOME\_METABOLISM\_OF\_POLYAMINES  
KEGG\_ALZHEIMERS\_DISEASE, KEGG\_ALZHEIMERS\_DISEASE  
REACTOME\_HEDGEHOG\_LIGAND\_BIOGENESIS, REACTOME\_HEDGEHOG\_LIGAND\_BIOGENESIS  
REACTOME\_REGULATION\_OF\_RAS\_BY\_GAPS, REACTOME\_REGULATION\_OF\_RAS\_BY\_GAPS  
REACTOME\_DEGRADATION\_OF\_AXIN, REACTOME\_DEGRADATION\_OF\_AXIN  
REACTOME\_MTOR\_SIGNALLING, REACTOME\_MTOR\_SIGNALLING  
WP\_NONALCOHOLIC\_FATTY\_LIVER\_DISEASE, WP\_NONALCOHOLIC\_FATTY\_LIVER\_DISEASE  
REACTOME\_TRANSPORT\_TO\_THE\_GOLGI\_AND\_SUBSEQUENT\_MODIFICATION, REACTOME\_TRANSPORT\_TO\_THE\_GOLGI\_AND\_SUBSEQUENT\_MODIFICATION  
REACTOME\_DEFECTIVE\_CFTR\_CAUSES\_CYSTIC\_FIBROSIS, REACTOME\_DEFECTIVE\_CFTR\_CAUSES\_CYSTIC\_FIBROSIS  
REACTOME\_HEDGEHOG\_ON\_STATE, REACTOME\_HEDGEHOG\_ON\_STATE  
REACTOME\_THE\_ROLE\_OF\_GTSE1\_IN\_G2\_M\_PROGRESSION\_AFTER\_G2\_CHECKPOINT, REACTOME\_THE\_ROLE\_OF\_GTSE1\_IN\_G2\_M\_PROGRESSION\_AFTER\_G2\_CHECKPOINT  
REACTOME\_TRANSLOCATION\_OF\_SLC2A4 GLUT4\_TO\_THE\_PLASMA\_MEMBRANE, REACTOME\_TRANSLOCATION\_OF\_SLC2A4 GLUT4\_TO\_THE\_PLASMA\_MEMBRANE  
BROWNE\_HCMV\_INFECTION\_14HR\_UP, BROWNE\_HCMV\_INFECTION\_14HR\_UP  
LAIHO\_COLORECTAL\_CANCER\_SERRATED\_UP, LAIHO\_COLORECTAL\_CANCER\_SERRATED\_UP  
REACTOME\_TRANSCRIPTIONAL\_REGULATION\_BY\_RUNX2, REACTOME\_TRANSCRIPTIONAL\_REGULATION\_BY\_RUNX2  
GERHOLD\_ADIPOGENESIS\_DN, GERHOLD\_ADIPOGENESIS\_DN  
WP\_FAS\_LIGAND\_FASL\_PATHWAY\_AND\_STRESS\_INDUCTION\_OF\_HEAT\_SHOCK\_PROTEINS\_HSP\_REGULATION, WP\_FAS\_LIGAND\_FASL\_PATHWAY\_AND\_STRESS\_INDUCTION\_OF\_HEAT\_SHOCK\_PROTEINS\_HSP\_REGULATION  
NATSUME\_RESPONSE\_TO\_INTERFERON\_BETA\_DN, NATSUME\_RESPONSE\_TO\_INTERFERON\_BETA\_DN  
PRAMOONJAGO\_SOX4\_TARGETS\_DN, PRAMOONJAGO\_SOX4\_TARGETS\_DN  
REACTOME\_ER\_TO\_GOLGI\_ANTEROGRADE\_TRANSPORT, REACTOME\_ER\_TO\_GOLGI\_ANTEROGRADE\_TRANSPORT  
REACTOME\_NUCLEOBASE\_BIOSYNTHESIS, REACTOME\_NUCLEOBASE\_BIOSYNTHESIS  
PELLICCIOTTA\_HDAC\_IN\_ANTIEN\_PRESENTATION\_DN, PELLICCIOTTA\_HDAC\_IN\_ANTIEN\_PRESENTATION\_DN  
REACTOME\_REGULATION\_OF\_RUNX2\_EXPRESSION\_AND\_ACTIVITY, REACTOME\_REGULATION\_OF\_RUNX2\_EXPRESSION\_AND\_ACTIVITY  
CHAUHAN\_RESPONSE\_TO\_METHOXYESTRADIOL\_DN, CHAUHAN\_RESPONSE\_TO\_METHOXYESTRADIOL\_DN  
SCHLOSSER\_SERUM\_RESPONSE\_UP, SCHLOSSER\_SERUM\_RESPONSE\_UP  
ALONSO\_METASTASIS\_UP, ALONSO\_METASTASIS\_UP  
MMS\_MOUSE\_LYMPH\_HIGH\_4HRS\_UP, MMS\_MOUSE\_LYMPH\_HIGH\_4HRS\_UP  
BIOCARTA\_PROTEASOME\_PATHWAY, BIOCARTA\_PROTEASOME\_PATHWAY  
REACTOME\_ASYMMETRIC\_LOCALIZATION\_OF\_PCP\_PROTEINS, REACTOME\_ASYMMETRIC\_LOCALIZATION\_OF\_PCP\_PROTEINS  
KEGG\_PROTEASOME, KEGG\_PROTEASOME  
REACTOME\_SIGNALING\_BY\_NOTCH4, REACTOME\_SIGNALING\_BY\_NOTCH4  
REACTOME\_ABC\_FAMILY\_PROTEINS\_MEDIATED\_TRANSPORT, REACTOME\_ABC\_FAMILY\_PROTEINS\_MEDIATED\_TRANSPORT  
WP\_PARKINUBIQUITIN\_PROTEASOMAL\_SYSTEM\_PATHWAY, WP\_PARKINUBIQUITIN\_PROTEASOMAL\_SYSTEM\_PATHWAY  
REACTOME\_MAPK6\_MAPK4\_SIGNALING, REACTOME\_MAPK6\_MAPK4\_SIGNALING  
YAGL\_AML\_WITH\_T\_9\_11\_TRANSLOCATION, YAGL\_AML\_WITH\_T\_9\_11\_TRANSLOCATION  
REACTOME\_INTERLEUKIN\_1\_FAMILY\_SIGNALING, REACTOME\_INTERLEUKIN\_1\_FAMILY\_SIGNALING  
DITTMER\_PTHLH\_TARGETS\_DN, DITTMER\_PTHLH\_TARGETS\_DN  
WP\_IL6\_SIGNALING\_PATHWAY, WP\_IL6\_SIGNALING\_PATHWAY  
REACTOME\_IRE1ALPHA\_ACTIVATES\_CHAPERONES, REACTOME\_IRE1ALPHA\_ACTIVATES\_CHAPERONES  
DEN\_INTERACT\_WITH\_LCA5, DEN\_INTERACT\_WITH\_LCA5  
WANG\_TARGETS\_OF\_MLL\_CBP\_FUSION\_DN, WANG\_TARGETS\_OF\_MLL\_CBP\_FUSION\_DN  
REACTOME\_ANTIEN\_PROCESSING\_CROSS\_PRESENTATION, REACTOME\_ANTIEN\_PROCESSING\_CROSS\_PRESENTATION  
ZHONG\_SECRETOME\_OF\_LUNG\_CANCER\_AND\_FIBROBLAST, ZHONG\_SECRETOME\_OF\_LUNG\_CANCER\_AND\_FIBROBLAST  
REACTOME\_METABOLISM\_OF\_COFACTORS, REACTOME\_METABOLISM\_OF\_COFACTORS  
CAFFAREL\_RESPONSE\_TO\_THC\_24HR\_5\_UP, CAFFAREL\_RESPONSE\_TO\_THC\_24HR\_5\_UP  
NADLER\_OBESITY\_DN, NADLER\_OBESITY\_DN  
BIOCARTA\_FAS\_PATHWAY, BIOCARTA\_FAS\_PATHWAY  
REACTOME\_ABC\_TRANSPORTER\_DISORDERS, REACTOME\_ABC\_TRANSPORTER\_DISORDERS  
REACTOME\_PURINE\_RIBONUCLEOSIDE\_MONOPHOSPHATE\_BIOSYNTHESIS, REACTOME\_PURINE\_RIBONUCLEOSIDE\_MONOPHOSPHATE\_BIOSYNTHESIS  
REACTOME\_PROTEIN\_METHYLATION, REACTOME\_PROTEIN\_METHYLATION  
BARIS\_THYROID\_CANCER\_DN, BARIS\_THYROID\_CANCER\_DN  
REACTOME\_PCP\_CE\_PATHWAY, REACTOME\_PCP\_CE\_PATHWAY  
WP\_IL1\_SIGNALING\_PATHWAY, WP\_IL1\_SIGNALING\_PATHWAY  
PID\_AR\_PATHWAY, PID\_AR\_PATHWAY  
REACTOME\_TRANSCRIPTIONAL\_REGULATION\_BY\_RUNX3, REACTOME\_TRANSCRIPTIONAL\_REGULATION\_BY\_RUNX3  
REACTOME\_COPIL\_MEDIATED\_VESICLE\_TRANSPORT, REACTOME\_COPIL\_MEDIATED\_VESICLE\_TRANSPORT  
BAE\_BRCA1\_TARGETS\_UP, BAE\_BRCA1\_TARGETS\_UP  
LIU\_NASOPHARYNGEAL\_CARINOMA, LIU\_NASOPHARYNGEAL\_CARINOMA  
CHIARADONNA\_NEOPLASTIC\_TRANSFORMATION\_KRAS\_UP, CHIARADONNA\_NEOPLASTIC\_TRANSFORMATION\_KRAS\_UP  
CROMER\_METASTASIS\_DN, CROMER\_METASTASIS\_DN  
REACTOME\_TCR\_SIGNALING, REACTOME\_TCR\_SIGNALING  
WU\_HBX\_TARGETS\_3\_UP, WU\_HBX\_TARGETS\_3\_UP  
REACTOME\_COP1\_MEDIATED\_ANTEROGRADE\_TRANSPORT, REACTOME\_COP1\_MEDIATED\_ANTEROGRADE\_TRANSPORT  
PID\_DNA\_PK\_PATHWAY, PID\_DNA\_PK\_PATHWAY  
TARTE\_PLASMA\_CELL\_VS\_B\_LYMPHOCYTE\_UP, TARTE\_PLASMA\_CELL\_VS\_B\_LYMPHOCYTE\_UP  
PAPASPYRIDONOS\_UNSTABLE\_ATEROSCLEROTIC\_PLAQUE\_UP, PAPASPYRIDONOS\_UNSTABLE\_ATEROSCLEROTIC\_PLAQUE\_UP  
DACOSTA\_UV\_RESPONSE\_VIA\_ERCC3\_TTD\_UP, DACOSTA\_UV\_RESPONSE\_VIA\_ERCC3\_TTD\_UP  
REACTOME\_CROSS\_PRESENTATION\_OF\_SOLUBLE\_EXOGENOUS\_ANTIGENS\_ENDOSOMES, REACTOME\_CROSS\_PRESENTATION\_OF\_SOLUBLE\_EXOGENOUS\_ANTIGENS\_ENDOSOMES