

MRNA\_SPLICING, REACTOME\_MRNA\_SPLICING

KEGG\_SPLICEOSOME, KEGG\_SPLICEOSOME  
REACTOME\_HIV\_LIFE\_CYCLE, REACTOME\_HIV\_LIFE\_CYCLE  
PUJANA\_BRCA\_CENTERED\_NETWORK, PUJANA\_BRCA\_CENTERED\_NETWORK  
REACTOME\_NUCLEOTIDE\_EXCISION\_REPAIR, REACTOME\_NUCLEOTIDE\_EXCISION\_REPAIR  
WP\_MRNA\_PROCESSING, WP\_MRNA\_PROCESSING  
REACTOME\_INFLUENZA\_INFECTION, REACTOME\_INFLUENZA\_INFECTION  
DANG\_MYC\_TARGETS\_UP, DANG\_MYC\_TARGETS\_UP  
YAO\_TEMPORAL\_RESPONSE\_TO\_PROGESTERONE\_CLUSTER\_13, YAO\_TEMPORAL\_RESPONSE\_TO\_PROGESTERONE\_CLUSTER\_13  
REACTOME\_GENE\_SILENCING\_BY\_RNA, REACTOME\_GENE\_SILENCING\_BY\_RNA  
REACTOME\_TRANSPORT\_OF\_MATURE\_TRANSCRIPT\_TO\_CYTOPLASM, REACTOME\_TRANSPORT\_OF\_MATURE\_TRANSCRIPT\_TO\_CYTOPLASM  
MISSIAGLIA\_REGULATED\_BY\_METHYLATION\_DN, MISSIAGLIA\_REGULATED\_BY\_METHYLATION\_DN  
REACTOME\_SNRNP\_ASSEMBLY, REACTOME\_SNRNP\_ASSEMBLY  
REACTOME\_TRANSCRIPTIONAL\_REGULATION\_BY\_SMALL\_RNAS, REACTOME\_TRANSCRIPTIONAL\_REGULATION\_BY\_SMALL\_RNAS  
SAKAI\_CHRONIC\_HEPATITIS\_VS\_LIVER\_CANCER\_UP, SAKAI\_CHRONIC\_HEPATITIS\_VS\_LIVER\_CANCER\_UP  
REACTOME\_RNA\_POLYMERASE\_II\_TRANSCRIPTION\_TERMINATION, REACTOME\_RNA\_POLYMERASE\_II\_TRANSCRIPTION\_TERMINATION  
REACTOME\_TRANSCRIPTION\_COUPLED\_NUCLEOTIDE\_EXCISION\_REPAIR\_TC\_NER, REACTOME\_TRANSCRIPTION\_COUPLED\_NUCLEOTIDE\_EXCISION\_REPAIR\_TC\_NER  
REACTOME\_REGULATION\_OF\_EXPRESSION\_OF\_SLITS\_AND\_ROBOS, REACTOME\_REGULATION\_OF\_EXPRESSION\_OF\_SLITS\_AND\_ROBOS  
OUELLET\_OVARIAN\_CANCER\_INVASIVE\_VS\_LMP\_UP, OUELLET\_OVARIAN\_CANCER\_INVASIVE\_VS\_LMP\_UP  
REACTOME\_CHROMOSOME\_MAINTENANCE, REACTOME\_CHROMOSOME\_MAINTENANCE  
REACTOME\_VIRAL\_MESSENGER\_RNA\_SYNTHESIS, REACTOME\_VIRAL\_MESSENGER\_RNA\_SYNTHESIS  
REACTOME\_NONSENSE\_MEDIATED\_DECAY\_NMD, REACTOME\_NONSENSE\_MEDIATED\_DECAY\_NMD  
KEGG\_HUNTINGTONS\_DISEASE, KEGG\_HUNTINGTONS\_DISEASE  
JISON\_SICKLE\_CELL\_DISEASE\_DN, JISON\_SICKLE\_CELL\_DISEASE\_DN  
HAHTOLA\_MYCOSIS\_FUNGOIDES\_SKIN\_UP, HAHTOLA\_MYCOSIS\_FUNGOIDES\_SKIN\_UP  
BASSO\_B\_LYMPHOCYTE\_NETWORK, BASSO\_B\_LYMPHOCYTE\_NETWORK  
REACTOME\_RNA\_POLYMERASE\_II\_TRANSCRIBES\_SNRNA\_GENES, REACTOME\_RNA\_POLYMERASE\_II\_TRANSCRIBES\_SNRNA\_GENES  
REACTOME\_TRANSPORT\_OF\_MATURE\_MRNAS\_DERIVED\_FROM\_INTRONLESS\_TRANSCRIPTS, REACTOME\_TRANSPORT\_OF\_MATURE\_MRNAS\_DERIVED\_FROM\_INTRONLESS\_TRANSCRIPTS  
REACTOME\_ESTROGEN\_DEPENDENT\_GENE\_EXPRESSION, REACTOME\_ESTROGEN\_DEPENDENT\_GENE\_EXPRESSION  
REACTOME\_DUAL\_INCISION\_IN\_TC\_NER, REACTOME\_DUAL\_INCISION\_IN\_TC\_NER  
YAO\_TEMPORAL\_RESPONSE\_TO\_PROGESTERONE\_CLUSTER\_10, YAO\_TEMPORAL\_RESPONSE\_TO\_PROGESTERONE\_CLUSTER\_10  
REACTOME\_POSITIVE\_EPIGENETIC\_REGULATION\_OF\_RRNA\_EXPRESSION, REACTOME\_POSITIVE\_EPIGENETIC\_REGULATION\_OF\_RRNA\_EXPRESSION  
REACTOME\_DEADENYLATION\_DEPENDENT\_MRNA\_DECAY, REACTOME\_DEADENYLATION\_DEPENDENT\_MRNA\_DECAY  
REACTOME\_MRNA\_SPLICING\_MINOR\_PATHWAY, REACTOME\_MRNA\_SPLICING\_MINOR\_PATHWAY  
REACTOME\_B\_WICH\_COMPLEX\_POSITIVELY\_REGULATES\_RRNA\_EXPRESSION, REACTOME\_B\_WICH\_COMPLEX\_POSITIVELY\_REGULATES\_RRNA\_EXPRESSION  
GROSS\_HYPOXIA\_VIA\_ELK3\_AND\_HIF1A\_DN, GROSS\_HYPOXIA\_VIA\_ELK3\_AND\_HIF1A\_DN  
RHODES\_CANCER\_META\_SIGNATURE, RHODES\_CANCER\_META\_SIGNATURE  
REACTOME\_TP53\_REGULATES\_TRANSCRIPTION\_OF\_DNA\_REPAIR\_GENES, REACTOME\_TP53\_REGULATES\_TRANSCRIPTION\_OF\_DNA\_REPAIR\_GENES  
REACTOME\_TELOMERE\_MAINTENANCE, REACTOME\_TELOMERE\_MAINTENANCE  
ABRAMSON\_INTERACT\_WITH\_AIRE, ABRAMSON\_INTERACT\_WITH\_AIRE  
REACTOME\_FORMATION\_OF\_TC\_NER\_PRE\_INCISION\_COMPLEX, REACTOME\_FORMATION\_OF\_TC\_NER\_PRE\_INCISION\_COMPLEX  
ZHANG\_RESPONSE\_TO\_CANTHARIDIN\_DN, ZHANG\_RESPONSE\_TO\_CANTHARIDIN\_DN  
REACTOME\_TRANSCRIPTION\_OF\_THE\_HIV\_GENOME, REACTOME\_TRANSCRIPTION\_OF\_THE\_HIV\_GENOME  
REACTOME\_RHOBTB\_GTPASE\_CYCLE, REACTOME\_RHOBTB\_GTPASE\_CYCLE  
YAO\_TEMPORAL\_RESPONSE\_TO\_PROGESTERONE\_CLUSTER\_11, YAO\_TEMPORAL\_RESPONSE\_TO\_PROGESTERONE\_CLUSTER\_11  
REACTOME\_FORMATION\_OF\_THE\_EARLY\_ELONGATION\_COMPLEX, REACTOME\_FORMATION\_OF\_THE\_EARLY\_ELONGATION\_COMPLEX  
REACTOME\_ACTIVATION\_OF\_ANTERIOR\_HOX\_GENES\_IN\_HINDBRAIN\_DEVELOPMENT\_DURING\_EARLY\_EMBRYOGENESIS, REACTOME\_ACTIVATION\_OF\_ANTERIOR\_HOX\_GENES\_IN\_HINDBRAIN\_DEVELOPMENT\_DURING\_EARLY\_EMBRYOGENESIS  
REACTOME\_MRNA\_CAPPING, REACTOME\_MRNA\_CAPPING  
REACTOME\_HIV\_TRANSCRIPTION\_ELONGATION, REACTOME\_HIV\_TRANSCRIPTION\_ELONGATION  
ZHONG\_RESPONSE\_TO\_AZACITIDINE\_AND\_TSA\_DN, ZHONG\_RESPONSE\_TO\_AZACITIDINE\_AND\_TSA\_DN  
REACTOME\_CYTOSOLIC\_SENSORS\_OF\_PATHOGEN\_ASSOCIATED\_DNA, REACTOME\_CYTOSOLIC\_SENSORS\_OF\_PATHOGEN\_ASSOCIATED\_DNA  
HOSHIDA\_LIVER\_CANCER\_SUBCLASS\_S2, HOSHIDA\_LIVER\_CANCER\_SUBCLASS\_S2  
REACTOME\_FORMATION\_OF\_RNA\_POL\_II\_ELONGATION\_COMPLEX, REACTOME\_FORMATION\_OF\_RNA\_POL\_II\_ELONGATION\_COMPLEX  
REACTOME\_ABORTIVE\_ELONGATION\_OF\_HIV\_1\_TRANSCRIPT\_IN\_THE\_ABSENCE\_OF\_TAT, REACTOME\_ABORTIVE\_ELONGATION\_OF\_HIV\_1\_TRANSCRIPT\_IN\_THE\_ABSENCE\_OF\_TAT  
REACTOME\_PROCESSING\_OF\_CAPPED\_INTRONLESS\_PRE\_MRNA, REACTOME\_PROCESSING\_OF\_CAPPED\_INTRONLESS\_PRE\_MRNA  
HOLLEMAN\_PREDNISOLONE\_RESISTANCE\_B\_ALL\_UP, HOLLEMAN\_PREDNISOLONE\_RESISTANCE\_B\_ALL\_UP  
MALONEY\_RESPONSE\_TO\_17AAG\_DN, MALONEY\_RESPONSE\_TO\_17AAG\_DN  
KYNG\_WERNER\_SYNDROM\_AND\_NORMAL\_AGING\_DN, KYNG\_WERNER\_SYNDROM\_AND\_NORMAL\_AGING\_DN  
KEGG\_PYRIMIDINE\_METABOLISM, KEGG\_PYRIMIDINE\_METABOLISM  
YAO\_TEMPORAL\_RESPONSE\_TO\_PROGESTERONE\_CLUSTER\_7, YAO\_TEMPORAL\_RESPONSE\_TO\_PROGESTERONE\_CLUSTER\_7  
HU\_ANGIOGENESIS\_DN, HU\_ANGIOGENESIS\_DN  
XU\_AKT1\_TARGETS\_6HR, XU\_AKT1\_TARGETS\_6HR  
REACTOME\_GENE\_AND\_PROTEIN\_EXPRESSION\_BY\_JAK\_STAT\_SIGNALING\_AFTER\_INTERLEUKIN\_12\_STIMULATION, REACTOME\_GENE\_AND\_PROTEIN\_EXPRESSION\_BY\_JAK\_STAT\_SIGNALING\_AFTER\_INTERLEUKIN\_12\_STIMULATION  
REACTOME\_RHOBTB1\_GTPASE\_CYCLE, REACTOME\_RHOBTB1\_GTPASE\_CYCLE  
LOPEZ\_TRANSLATION\_VIA\_FN1\_SIGNALING, LOPEZ\_TRANSLATION\_VIA\_FN1\_SIGNALING  
WP\_PYRIMIDINE\_METABOLISM, WP\_PYRIMIDINE\_METABOLISM  
SENESE\_HDAC2\_TARGETS\_UP, SENESE\_HDAC2\_TARGETS\_UP  
DANG\_REGULATED\_BY\_MYC\_UP, DANG\_REGULATED\_BY\_MYC\_UP  
SESTO\_RESPONSE\_TO\_UV\_C0, SESTO\_RESPONSE\_TO\_UV\_C0  
REACTOME\_HIV\_TRANSCRIPTION\_INITIATION, REACTOME\_HIV\_TRANSCRIPTION\_INITIATION  
REACTOME\_HIV\_ELONGATION\_ARREST\_AND\_RECOVERY, REACTOME\_HIV\_ELONGATION\_ARREST\_AND\_RECOVERY  
WP\_EUKARYOTIC\_TRANSCRIPTION\_INITIATION, WP\_EUKARYOTIC\_TRANSCRIPTION\_INITIATION  
REACTOME\_PROCESSING\_OF\_INTRONLESS\_PRE\_MRNAS, REACTOME\_PROCESSING\_OF\_INTRONLESS\_PRE\_MRNAS  
KEGG\_RNA\_DEGRADATION, KEGG\_RNA\_DEGRADATION  
JAZAG\_TGFB1\_SIGNALING\_UP, JAZAG\_TGFB1\_SIGNALING\_UP  
REACTOME\_INHIBITION\_OF\_DNA\_RECOMBINATION\_AT\_TELOMERE, REACTOME\_INHIBITION\_OF\_DNA\_RECOMBINATION\_AT\_TELOMERE  
REACTOME\_SIGNALING\_BY\_FGFR2\_III\_A\_TM, REACTOME\_SIGNALING\_BY\_FGFR2\_III\_A\_TM  
RIZ\_ERYTHROID\_DIFFERENTIATION\_CCNE1, RIZ\_ERYTHROID\_DIFFERENTIATION\_CCNE1  
REACTOME\_RNA\_POLYMERASE\_III\_TRANSCRIPTION, REACTOME\_RNA\_POLYMERASE\_III\_TRANSCRIPTION  
REACTOME\_FGFR2\_ALTERNATIVE\_SPLICING, REACTOME\_FGFR2\_ALTERNATIVE\_SPLICING  
REACTOME\_MICRORNA\_MIRNA\_BIOGENESIS, REACTOME\_MICRORNA\_MIRNA\_BIOGENESIS  
REACTOME\_RHOBTB2\_GTPASE\_CYCLE, REACTOME\_RHOBTB2\_GTPASE\_CYCLE  
INAMURA\_LUNG\_CANCER\_SCC\_SUBTYPES\_UP, INAMURA\_LUNG\_CANCER\_SCC\_SUBTYPES\_UP  
REACTOME\_RNA\_POLYMERASE\_I\_TRANSCRIPTION\_INITIATION, REACTOME\_RNA\_POLYMERASE\_I\_TRANSCRIPTION\_INITIATION  
KEGG\_RNA\_POLYMERASE, KEGG\_RNA\_POLYMERASE  
MATTIOLI\_MGUS\_VS\_PCL, MATTIOLI\_MGUS\_VS\_PCL  
LEE\_METASTASIS\_AND\_RNA\_PROCESSING\_UP, LEE\_METASTASIS\_AND\_RNA\_PROCESSING\_UP  
REACTOME\_RNA\_POLYMERASE\_I\_TRANSCRIPTION\_TERMINATION, REACTOME\_RNA\_POLYMERASE\_I\_TRANSCRIPTION\_TERMINATION  
REACTOME\_RNA\_POLYMERASE\_III\_TRANSCRIPTION\_INITIATION\_FROM\_TYPE\_1\_PROMOTER, REACTOME\_RNA\_POLYMERASE\_III\_TRANSCRIPTION\_INITIATION\_FROM\_TYPE\_1\_PROMOTER  
MODY\_HIPPOCAMPUS\_PRENATAL, MODY\_HIPPOCAMPUS\_PRENATAL  
VANHARANTA\_UTERINE\_FIBROID\_WITH\_7Q\_DELETION\_UP, VANHARANTA\_UTERINE\_FIBROID\_WITH\_7Q\_DELETION\_UP  
KYNG\_WERNER\_SYNDROM\_AND\_NORMAL\_AGING\_UP, KYNG\_WERNER\_SYNDROM\_AND\_NORMAL\_AGING\_UP  
REACTOME\_RNA\_POLYMERASE\_III\_TRANSCRIPTION\_INITIATION\_FROM\_TYPE\_3\_PROMOTER, REACTOME\_RNA\_POLYMERASE\_III\_TRANSCRIPTION\_INITIATION\_FROM\_TYPE\_3\_PROMOTER  
SYED ESTRADIOL\_RESPONSE, SYED ESTRADIOL\_RESPONSE  
CHAUHAN\_RESPONSE\_TO\_METHOXYESTRADIOL\_UP, CHAUHAN\_RESPONSE\_TO\_METHOXYESTRADIOL\_UP  
SESTO\_RESPONSE\_TO\_UV\_C2, SESTO\_RESPONSE\_TO\_UV\_C2  
KIM\_WT1\_TARGETS\_8HR\_DN, KIM\_WT1\_TARGETS\_8HR\_DN  
WOOD\_EBV\_EBNA1\_TARGETS\_UP, WOOD\_EBV\_EBNA1\_TARGETS\_UP  
SCHAEFFER\_PROSTATE\_DEVELOPMENT\_AND\_CANCER\_BOX4\_DN, SCHAEFFER\_PROSTATE\_DEVELOPMENT\_AND\_CANCER\_BOX4\_DN  
MARIADASON\_RESPONSE\_TO\_CURCUMIN\_SULINDAC\_5, MARIADASON\_RESPONSE\_TO\_CURCUMIN\_SULINDAC\_5  
CHIARADONNA\_NEOPLASTIC\_TRANSFORMATION\_CDC25\_UP, CHIARADONNA\_NEOPLASTIC\_TRANSFORMATION\_CDC25\_UP  
REACTOME\_PIWI\_INTERACTING\_RNA\_PIRNA\_BIOGENESIS, REACTOME\_PIWI\_INTERACTING\_RNA\_PIRNA\_BIOGENESIS  
DAIRKEE\_CANCER\_PRONE\_RESPONSE\_BPA, DAIRKEE\_CANCER\_PRONE\_RESPONSE\_BPA  
KEGG\_PURINE\_METABOLISM, KEGG\_PURINE\_METABOLISM  
HIRSCH\_CELLULAR\_TRANSFORMATION\_SIGNATURE\_DN, HIRSCH\_CELLULAR\_TRANSFORMATION\_SIGNATURE\_DN  
WP\_CYTOSOLIC\_DNASENSING\_PATHWAY, WP\_CYTOSOLIC\_DNASENSING\_PATHWAY  
SAKAI\_TUMOR\_INFILTRATING\_MONOCYTES\_DN, SAKAI\_TUMOR\_INFILTRATING\_MONOCYTES\_DN  
RICKMAN\_TUMOR\_DIFFERENTIATED\_MODERATELY\_VS\_POORLY\_DN, RICKMAN\_TUMOR\_DIFFERENTIATED\_MODERATELY\_VS\_POORLY\_DN  
HOLLEMAN\_VINCRISTINE\_RESISTANCE\_B\_ALL\_DN, HOLLEMAN\_VINCRISTINE\_RESISTANCE\_B\_ALL\_DN  
LU\_AGING\_BRAIN\_DN, LU\_AGING\_BRAIN\_DN  
HASLINGER\_B\_CLL\_WITH\_CHROMOSOME\_12\_TRISOMY, HASLINGER\_B\_CLL\_WITH\_CHROMOSOME\_12\_TRISOMY  
HOLLEMAN\_PREDNISOLONE\_RESISTANCE\_ALL\_UP, HOLLEMAN\_PREDNISOLONE\_RESISTANCE\_ALL\_UP  
AZARE\_STAT3\_TARGETS, AZARE\_STAT3\_TARGETS  
REACTOME\_MRNA\_DECAY\_BY\_5\_TO\_3\_EXORIBONUCLEASE, REACTOME\_MRNA\_DECAY\_BY\_5\_TO\_3\_EXORIBONUCLEASE  
HOLLEMAN\_ASPARAGINASE\_RESISTANCE\_ALL\_DN, HOLLEMAN\_ASPARAGINASE\_RESISTANCE\_ALL\_DN  
FAELT\_B\_CLL\_WITH\_VH\_REARRANGEMENTS\_UP, FAELT\_B\_CLL\_WITH\_VH\_REARRANGEMENTS\_UP  
BIOCARTA\_SM\_PATHWAY, BIOCARTA\_SM\_PATHWAY  
PRAMOONJAGO\_SOX4\_TARGETS\_DN, PRAMOONJAGO\_SOX4\_TARGETS\_DN  
REACTOME\_SIGNALING\_BY\_FGFR2, REACTOME\_SIGNALING\_BY\_FGFR2  
LEE\_AGING\_MUSCLE\_UP, LEE\_AGING\_MUSCLE\_UP  
HOLLEMAN\_VINCRISTINE\_RESISTANCE\_ALL\_DN, HOLLEMAN\_VINCRISTINE\_RESISTANCE\_ALL\_DN  
ASTON\_MAJOR\_DEPRESSIVE\_DISORDER\_DN, ASTON\_MAJOR\_DEPRESSIVE\_DISORDER\_DN  
KIM\_TIAL1\_TARGETS, KIM\_TIAL1\_TARGETS