

**SUBCLASS\_PROLIFERATION\_DN, CHIANG\_LIVER\_CANCER\_SUBCLASS\_PROLIFERATION\_DN**

KEGG\_LYSINE\_DEGRADATION, KEGG\_LYSINE\_DEGRADATION  
OHGUCHI\_LIVER\_HNF4A\_TARGETS\_DN, OHGUCHI\_LIVER\_HNF4A\_TARGETS\_DN  
CHIANG\_LIVER\_CANCER\_SUBCLASS\_CTNNB1\_UP, CHIANG\_LIVER\_CANCER\_SUBCLASS\_CTNNB1\_UP  
KEGG\_VALINE\_LEUCINE\_AND\_ISOLEUCINE\_DEGRADATION, KEGG\_VALINE\_LEUCINE\_AND\_ISOLEUCINE\_DEGRADATION  
DOANE\_BREAST\_CANCER\_ESR1\_UP, DOANE\_BREAST\_CANCER\_ESR1\_UP  
WP\_METAPATHWAY\_BIOTRANSFORMATION\_PHASE\_I\_AND\_II, WP\_METAPATHWAY\_BIOTRANSFORMATION\_PHASE\_I\_AND\_II  
XIE\_ST\_HSC\_S1PR3\_OE\_DN, XIE\_ST\_HSC\_S1PR3\_OE\_DN  
LEE\_LIVER\_CANCER\_ACOX1\_DN, LEE\_LIVER\_CANCER\_ACOX1\_DN  
WOO\_LIVER\_CANCER\_RECURRENCE\_DN, WOO\_LIVER\_CANCER\_RECURRENCE\_DN  
KIM\_LIVER\_CANCER\_POOR\_SURVIVAL\_DN, KIM\_LIVER\_CANCER\_POOR\_SURVIVAL\_DN  
LEE\_LIVER\_CANCER\_CIPROFIBRATE\_DN, LEE\_LIVER\_CANCER\_CIPROFIBRATE\_DN  
WP\_SULFATION\_BIOTRANSFORMATION\_REACTION, WP\_SULFATION\_BIOTRANSFORMATION\_REACTION  
WP\_THE\_ALTERNATIVE\_PATHWAY\_OF\_FETAL\_ANDROGEN\_SYNTHESIS, WP\_THE\_ALTERNATIVE\_PATHWAY\_OF\_FETAL\_ANDROGEN\_SYNTHESIS  
KHETCHOUMIAN\_TRIM24\_TARGETS\_DN, KHETCHOUMIAN\_TRIM24\_TARGETS\_DN  
REACTOME\_NEUROTRANSMITTER\_RELEASE\_CYCLE, REACTOME\_NEUROTRANSMITTER\_RELEASE\_CYCLE  
WP\_VITAMIN\_A\_AND\_CAROTENOID\_METABOLISM, WP\_VITAMIN\_A\_AND\_CAROTENOID\_METABOLISM  
REACTOME\_BETA\_OXIDATION\_OF\_VERY\_LONG\_CHAIN\_FATTY\_ACIDS, REACTOME\_BETA\_OXIDATION\_OF\_VERY\_LONG\_CHAIN\_FATTY\_ACIDS  
FERREIRA\_EWINGS\_SARCOMA\_UNSTABLE\_VS\_STABLE\_DN, FERREIRA\_EWINGS\_SARCOMA\_UNSTABLE\_VS\_STABLE\_DN