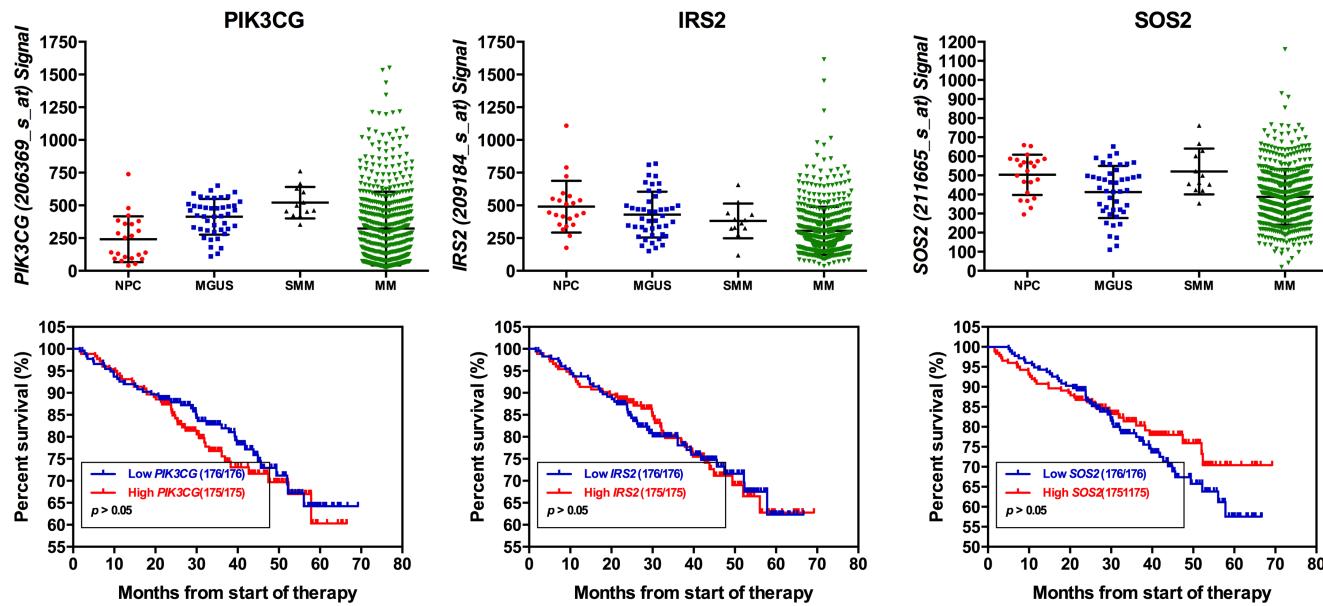
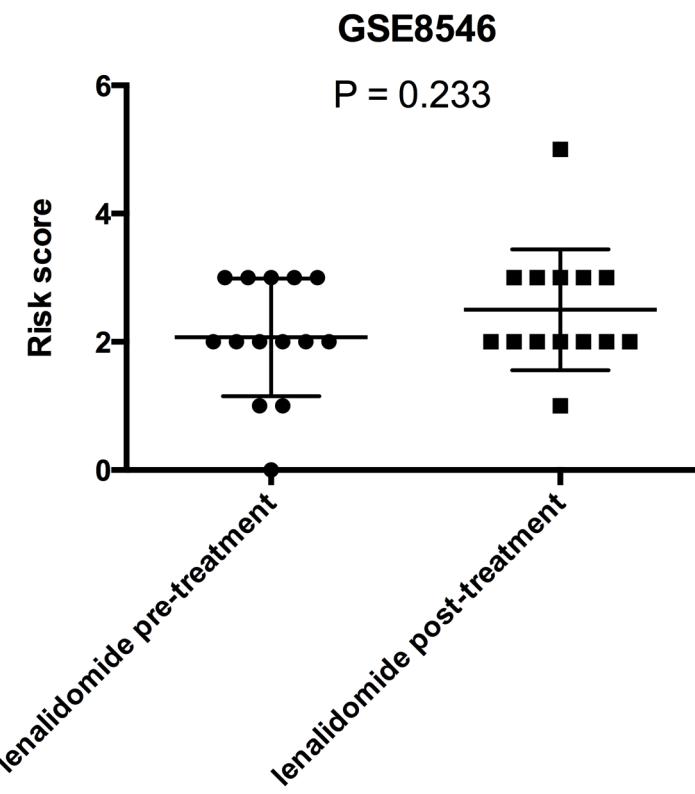


Significant Enriched Go Terms of down-regulated DEGs in SP cells based on their functions.



Gene expression of NP ($n = 22$), MGUS ($n = 44$), SMM ($n = 12$) and MM ($n = 559$) in GSE5900 and GSE2658 database (upper row). Kaplan-Meier analysis on the overall survival of MM patients in TT2 cohorts based on the gene expression (lower row).



The MMSP5 risk scores was significantly up regulated in lenalidomide-treated 15 paired patients

GAPDH

forward: 5-AACGTGT CAGTGGTGGACCTG-3,

reverse: 5-AGTGGGTGTCG CTGTTGAAGT-3;

ROCK1

forward: 5-AGGAAGGC GGACATATTAGTCCCT-3,

reverse: 5-AGACGATA GTTGGTCCC GGCG-3;

GSK3B

forward: 5-TGGCAGCAAGGTAACCACAG-3,

reverse: 5-CGGTTCTTAAATCGCTTGTCCTG-3;

BRAF

forward: 5-TCATAATGCTTGCTCTGATAGGA-3,

reverse: 5- GCCAAAAAATTAAATCAGTGGGA-3;

MAPK1

forward: 5-GTCGCCATCAAGAAAATCAGC-3,

reverse: 5-GGAAGGTTGAGGTACGGT-3;

MAPK14

forward: 5-CCCGAGCGTTACCAGAACCC-3,

reverse: 5-TCGCATGAATGATGGACTGAAAT-3;