



Fig. S3 Hypermethylation driven inhibition of metabolic pathways and hypomethylation driven activation of cell cycle signaling are associated with aggressive disease state in HCC. Dot-plot showing meth-GS scores of HCC patients who experienced or did not experience vascular invasion in TCGA database (**a**). Dot-plot showing meth-GS scores of HCC patients representing different tumor stages (stage I, II or III) in TCGA database (**b**). Dot-plot showing meth-GS scores of HCC patients representing different tumor grades (G1, G2 or G3) in TCGA database (**c**). Dot-plot showing meth-GS scores of HCC patients representing different pathological tumor size (T1, T2 or T3) in TCGA database (**d**). * $P < 0.05$; ** $P < 0.01$; ns, not significant, Student's t-test.