

Supporting Information

Supporting Information S1

Sequences of the 25 non-homologous HBV proteins downloaded from the NCBI protein database, with pairwise sequence identity less than 40%.

Supporting Information S2

The interacting HBV-Human protein pairs with their sharing GO terms.

Supporting Information S3

Human proteins that all interacted with HBV proteins, which were found based on shared GO terms.

Supporting Information S4

Genes of the 5 Target Human Gene datasets: THP0, THP400, THP700, THP900 and THPNNB.

Supporting Information S5

The 205 genes and the encoded 1125 proteins in CND900, which overlapped among THP900, HCCNet, OncoDB.HCC and Liverome.

Supporting Information S6

The 122 shortest path genes of SPG900 and their *p-values* in the permutation test. These genes were found utilizing *k*-th shortest paths between each pair of proteins in CND900. 33 genes achieved a *p-value* below 0.05, and were thus considered significant HCC-related genes in this study.