

**Supplementary Table 1. Clinical information of patients in the TCGA-LIHC and HCCDB18 datasets.**

<b>Variable</b>	<b>TCGA-LIHC</b>	<b>HCCDB18</b>
Gender		
Male/Female	255/122	192/68
Age at diagnosis		
≤65/>65/NA	235/141/1	98/162
Grade		
G1/G2/G3/G4/NA	55/180/124/13/5	NA
Stage		
I/II/III/IV/NA	175/87/86/5/24	40/117/80/23
T		
T1/T2/T3/T4/NA	185/95/81/13/3	NA
M		
M0/M1/NA	272/4/101	NA
N		
N0/N1/NA	257/4/116	NA