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**Table S1 –Clustering results based on all the annotated genes in the selected modules for liver cancer dataset and NCI60 dataset**

Datasets	N <sup>§</sup>	ARI <sup>¶</sup>	S <sup>#</sup>	P(ARI) <sup>  </sup>
Liver cancer	533	0.871	6	<0.001
NCI60	352	0.622	10	<0.001

<sup>§</sup>number of annotated genes

<sup>¶</sup>adjusted Rand index

<sup>#</sup>number of misallocated samples

<sup>||</sup>statistical significance of ARI

**Fig. S1. The sketch map of the hierarchical structure generated from clustering NCI60 samples based on all the measured genes annotated in seven identified putative signature modules**

